



FERMAX RESIDENTIAL COMMUNICATION

& video door entry systems and access

We offer home automation and security solutions for residences including

VIDEO DOOR ENTRY SYSTEMS



For the **entrances** we offer excellent interior-exterior communication solutions, ensuring that doors work properly using our door entry sytems.

In the exterior of the building, we offer different panels aesthetics: modular, continuos profile, vandal-proof and even cutting-edge design touch screen devices.

In the **residences**, monitors and telephones are an essential security element in the home. Furthermore, the indoor terminals are an investment in the building's quality. We make the difference between monitors with indispensable features and monitors able to integrate home automation functionalities and call divert to smartphones.



ACCESS CONTROL



Our access control systems allow to offer **different** solutions according to the project's specifications and types of doors and/or facilities.

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.

It is possible to add graphic maps that show the different access points, from which is you can visualize even the integrated cameras in the system and register all the events.

CONNECTIVITY



WE TAKE THE LEAP TO NETWORKABLE 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.

WELCOME TO THE FUTURE!

1



FERMAX DOOR ENTRY SYSTEMS AESTHETICS



OUTDOOR PANELS

















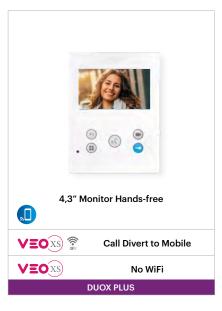
GUARD UNIT

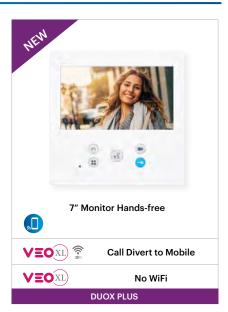




INDOOR TERMINALS

























AROUND THE WORLD

We are a global company that communicates homes all over the world. **We interpret the needs and desires of people** to transform them into differentiating, high performance and simple use products.









SOLUTIONS FOR INDIVIDUAL RESIDENCES AND BUSINESSES

Video kits Audio kits Audio kits up to 24 apartments	10 20 24
SOLUTIONS FOR BUILDINGS	
DUOX PLUS The only fully digital system in 2 wires MEET	26
The IP system based on point-to-point infraestructure VDS MDS 4+N audio	56 72 94 112
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FERMAX



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 VEO WIFI KIT	DUOX PLUS VEO-XS WIFI KIT	DUOX PLUS VEO-XL WIFI KIT	DUOX PLUS MARINE VEO-XS WIFI KIT	DUOX PLUS MARINE BLACK VEO-XS WIFI KIT	DUOX PLUS ONE-TO-ONE VEO WIFI KIT
OUTDOOR PANEL	•	© D			0	D 000
	cityline	city line	cityl ine	Marine	Marine	cityl ine
MONITOR	::	3 S 8	2 = 3	@ Ø ®	@ D @	::
	VEO 🛜	VEOXS 🕏	VEOXI 🕏	VEOXS 🕏	VEOXS 🕏	V≡0 ♠
REFERENCES No. APARTMENTS	94411 (1/W) 94421 (2/W)	94511 (1/W) 94521 (2/W)	9471 (1/W) 9472 (2/W)	50731 (1/W)	50831 (1/W)	49081 (1/W)
CALL DIVERT TO SMARTPHONE	Yes	Yes	Yes	Yes	Yes	Yes
TECHNOLOGY	2 wires	2 wires	2 wires	2 wires	2 wires	2 wires
PANEL MOUNTING	Flush mounted	Flush mounted	Flush mounted	Flush mounted	Flush mounted	Flush mounted
INTEGRATED ACCESS CONTROL	No	No	No	No	No	No
ACCESSIBILITY	No	No	No	No	No	Yes
ADDITIONAL PANELS	9	9	9	9	9	9
MONITOR SCREEN	4,3"	4,3"	7"	4,3"	4,3"	4,3"
CONVERSATION MODE	With handset	Hands-free	Hands-free	Hands-free	Hands-free	With handset
CAPTURE OF IMAGES	Yes	Yes	Yes	Yes	Yes	Yes
INTERCOM.	No	No	No	No	No	No
COMP. VIDEO SURVEILLANCE	Yes	Yes	Yes	Yes	Yes	Yes
ADDITIONAL MONITORS*	2	2	2	2	2	2
*Without extra power supply.			2 WIRES (D	OUOX PLUS)		







DUOX PLUS WIFI KITS







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.

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.









WHEN YOU PRESS THE BLUE ICON ON YOUR MOBILE DEVICE

IT'LL BE LIKE "BEING AT HOME"













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









40708	1/W Colour DUOX	PLUS CITY	nanel	S1-130v128
40/00	I/W Colour DOON	L PLUS CITT	panei.	31: I3UX120.

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 WiFi monitors (ref.9449) and their connectors (ref. 9447). Includes 1 line adaptor (ref.3255).

9471 1/W DUOX PLUS VEO-XL WiFi KIT







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FERMAX

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

4825 Power supply unit+filter DIN10 24Vdc-2.5A4802 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.

See ACCESSORIES page 41

DUOX PLUS INSTALLATION DIAGRAM



DISTANCES TABLE

Check the technical manual of the kit.

DUOX PLUS WIFI 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

50831 1/W **DUOX PLUS** MARINE BLACK VEO-XS WIFI KIT

44438 MARINE BLACK 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

KITS EXTENSIONS

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

See ACCESORIES: Marine Panels page 44. Cityline Panels page 40.

























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

Power supply DIN4 230Vac/12Vac/1A

50781

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

55361	I/W DUOX PLUS One-10-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



4802











49071 1/W **DUOX PLUS** MEMOVISION VEO WIFI KIT

1/W DUOX PLUS MEMOVISION panel. S5:130x246.
Flush box S5: 115x233x45.
4,3" DUOX PLUS VEO WiFi monitor.
DUOX PLUS Connector.
Power supply unit+filter DIN10 24Vdc-2.5A.
Power supply DIN4 230Vac/12Vac/1A.

49121 1/W **DUOX PLUS** MEMOVISION VEO-XS WIFI KIT

73881	1/W DUOX PLUS MEMOVISION panel .S5:130x246.
8855	Flush box S5: 115x233x45.
9449	4,3" colour DUOX PLUS VEO-XS monitor.
9447	DUOX PLUS Connector.
4825	Power supply unit+filter DIN10 24Vdc-2.5A.
4802	Power supply DIN4 230Vac/12Vac/1A.

DUOX PLUS INSTALLATION DIAGRAM



DISTANCE TABLE

Check the technical manual of the kit.

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









CONNECTED TO YOUR HOME FROM ANYWHERE IN THE WORLD





- 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.





1/W 7" WAY-FI KIT 1431

1438 1/W WAY-FI video panel with hood. Panel dimensions with hood: 164x94x39. 1436 7" WAY-FI touch screen monitor with Wi-Fi.

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

Recommen. cable	Section	A: Max. dist. panel-power supply	B: Max. distance pow.supmonitor
Twisted pair	2x1mm ²	80m	80m
	2x0,75mm ²	60m	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 AND BUSINESSES











1/W 7" WAY KIT 1401

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 1st home). 1413 7" TFT Colour WAY monitor 2 (for 2nd 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 2nd home) 1413 1416 1/W colour WAY video kit panel with hood 1417 2/W colour WAY video kit panel with hood 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).

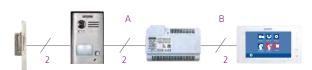
ADDITIONAL FUNCTIONS



1419

1418 WAY RELAY MODULE 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

Recommen. cable	Section	A: Max. dist. panel-power supply	B: Max. distance pow.supmonitor
Twisted pair	2x1mm ²	80m	80m
	2x0,5mm ²	60m	60m

KITS DE VIDEOPORTERO

RESIDENCES AND BUSINESSES











1421 1/W 4,3" WAY SLIM KIT

1/W colour WAY video kit panel with hood.
 Panel dimensions with hood: 95x155x39.
 Colour 4,3" TFT SLIM WAY monitor.

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

1425 4,3" TFT Colour WAY SLIM monitor 1 (for 1st home)
 1426 4,3" TFT Colour WAY SLIM monitor 2 (for 2nd home)

1416 1/W colour WAY video kit panel with hood1417 2/W colour WAY video kit panel with hood

1419 WAY SWITCHER/DISTRIBUTOR

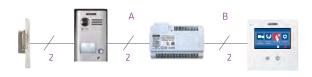
It allows for the expansion of the total amount of outdoor panels in a WAY installation, adding up to 3 additional panels (total up to 4 outdoor panels per installation).

ADDITIONAL FUNCTIONS



1418 WAY RELAY MODULE
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

Recommen. cable	Section	A: Max. dist. panel-power supply	B: Max. distance pow.supmonitor
Twisted pair	2x1mm ²	80m	80m
	2x0,5mm ²	60m	60m













9411 1/W VDS VEO 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.





9412 2/W VDS VEO KIT

48515 2/W colour VDS CITY panel

and flush box (ref.8948).

Panel S1: 130x128 / Flush box S1: 115x114x45.

9401 Colour 4,3" VDS VEO monitor (2 units).

9402 VDS VEO monitor connector (2 units).

4810 Power supply. 18Vdc/1,5A-12Vac/1,5A. DIN10.

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).

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.



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

D	D	. 🗆 .
city line	cityl ine	Marine
VEO	iLOFT	iLOFT
49201 (1/W) 49211 (2/W)	50771 (1/W)	50761 (1/W)
2 wires	2 wires	2 wires
Flush mounted	Flush mounted	Flush mounted
No	No	No
9	9	9
2	2	2
With handset	Hands-free	Hands-free
1	3	3
5	5	5
Yes	Yes	Yes
Yes	Yes	Yes
No	Yes	Yes
Yes	Yes	Yes
	V=0 49201 (1/W) 49211 (2/W) 2 wires Flush mounted No 9 2 With handset 1 5 Yes Yes No	LOFT 49201 (1/W) 50771 (1/W) 2 wires 2 wires Flush mounted No No No 9 9 2 2 With handset Hands-free 1 3 5 5 Yes Yes Yes Yes Yes No Yes No Yes No Yes No Yes No No Yes No No Yes No No No No No No No N



DUOX PLUS MEMOPHONE KIT	CITYLINE 4+N KIT	CITY CLASSIC 4+N KIT
cityl ine	city line	cityline classic
VEO	VEO.	citymax
49131 (1/W)	4860 (1/W) 4862(2/W)	6201 (1/W) 6202 (2/W)
2 wires	4+N	4+N
Flush mounted	Flush mounted	Flush mounted
Yes (keypad)	No	No
9	6	6
2	3	3
With handset	With handset	With handset
1	1	1
5	1	1
Yes	No	No
Yes	No	No
No	No	No
Yes	Yes	Yes
2 WIRES (DUOX PLUS)	4-	-N





DUOX PLUS KITS



49201 1/W DUOX PLUS AUDIO CITY VEO KIT

40704 1/W DUOX PLUS CITY panel. S1: 130x128.

8948 Kit flush box S1: 115x114x45.3444 DUOX PLUS VEO telephone.

4825 Power supply unit+filter DIN10 24Vdc-2.5A4802 Power supply DIN4 230Vac/12Vac/1A

49211 2/W DUOX PLUS AUDIO CITY VEO KIT

Same as ref.49201 but with 2/W audio panel (ref.40004) and 2 DUOX PLUS VEO telephones (ref.3444).



49131 1/W DUOX PLUS AUDIO MEMOPHONE CITY VEO KIT

49041 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





50771 1/W DUOX PLUS AUDIO CITY ILOFT KIT

40704 1/W DUOX PLUS CITY panel. Panel S1: 130x128.

8948 Kit flush box S1: 115x114x45.3450 DUOX PLUS iLOFT telephone.

4825 Power supply unit+filter DIN10 24Vdc-2.5A4802 Power supply DIN4 230Vac/12Vac/1A





50761 1/W DUOX PLUS AUDIO MARINE iLOFT KIT

44334 1/W DUOX PLUS MARINE panel. Panel ST1: 150x180.

4641 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.

2008 8 call extension module

INSTALLATION DIAGRAM



EXTENSIONS

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

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



4+N KITS



4860 1/W 4+N CITY AUDIO KIT

4845 1/W CITY 4+N panel and flush box (ref.8948).

Panel S1: 130x128

Kit flush box S1:115x114x45.

3426 VEO 4+N telephone.

4802 Power supply DIN4 230Vac/12Vac/1A

4862 2/W 4+N CITY AUDIO KIT

Same as kit ref.4860 but with 2/W CITYLINE audio panel (ref.4846) and 2 VEO 4+N telephones (ref.3426).



6201 1/W 4+N CITYMAX AUDIO KIT

8300 1/W CLASSIC panel and flush box (ref.8948).

Panel S1: 130x12

Kit flush box S1:115x114x45.

80447 4+N CITYMAX BASIC telephone.

4802 Power supply DIN4 230Vac/12Vac/1A

6202 2/W 4+N CITYMAX AUDIO KIT

Same as kit ref.6201 but with 2/W CITY CLASSIC audio panel (ref.8301) and 2 CITYMAX BASIC 4+N telephones (ref.80447).

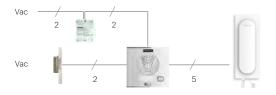
EXTENSIONS

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





CITYLINE KITS

FROM 3 TO 24 APARTMENTS



KITS EXTENSIONS AND ACCESSORIES

- 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.3426) without additional power supply.
- Recommended door lock: 990N-P22 MAX (ref.67501).

NOTE: These kits include the Basic amplifier. (See page 92 to find out the differences between Basic and Complete amplifier).

4863 3/W 4+N CITY AUDIO KIT

		4847	
000	Ų	3426	
хЗ		3426	

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.

4864 4/W 4+N CITY AUDIO KIT



4866 6/W 4+N CITY AUDIO KIT



4868 8/W 4+N CITY AUDIO KIT



4865 10/W 4+N CITY AUDIO KIT

	6	4853	10/W CITY panel and flush box.
100			Panel S5: 130x246.
000			Flush box (ref.8855) S5: 115x233x45
000	4	3426	VEO 4+N telephone (10 units).
x10		4802	Power supply 12Vac/1A. DIN4.

4867 12/W 4+N CITY AUDIO KIT

	6	4854	12/W CITY panel and flush box.
E B			Panel S5: 130x246.
00			Flush box (ref.8855) S5: 115x233x45
000	7	3426	VEO 4+N telephone (12 units).
x12		4802	Power supply 12Vac/1A. DIN4.

4869 14/W 4+N CITY AUDIO KIT

E.	0	4855	14W CITY panel and flush box.
Total y			Panel S6: 130x294.
000			Flush box (ref.8856) S6: 115x280x45.
000	4	3426	VEO 4+N telephone (14 units).
0 0		4802	Power supply 12Vac/1A. DIN4.
v1/I			

4871 16/W 4+N CITY AUDIO KIT

43	6	4856	16/W CITY panel and flush box.
Q D			Panel S6: 130x294.
000			Flush box (ref.8856) S6: 115x280x45.
000		3426	VEO 4+N telephone (16 units).
0 0		4802	Power supply 12Vac/1A. DIN4.
XIO			

4874 18/W 4+N CITY AUDIO KIT

	4857	18/W CITY panel and flush box.
00 00		Panel S7: 130x341.
000		Flush box (ref.8857) S7: 115x328x45.
0000	3426	VEO 4+N telephone (18 units).
x18	4802	Power supply 12Vac/1A. DIN4.

4875 20/W 4+N CITY AUDIO KIT

	4858	20/W CITY panel and flush box.
000		Panel S7: 130x341.
1000		Flush box (ref.8857) S7: 115x328x45.
000	3426	VEO 4+N telephone (20 units).
×20	4802	Power supply 12Vac/1A. DIN4.

4876 22/W 4+N CITY AUDIO KIT

	4843	22/W CITY panel and flush box.
0.00		Panel S8: 130x389.
000		Flush box (ref.8858) S8:115x375x45.
000	3426	VEO 4+N telephone (22 units).
000	4802	Power supply 12Vac/1A. DIN4.
x22		

4877 24/W CITY AUDIO KIT

(F)		4844	24/W CITY panel and flush box.
000			Panel S8: 130x389.
100			Flush box (ref.8858) S8:115x375x45.
000		3426	VEO 4+N telephone (24 units).
000		4802	Power supply 12Vac/1A. DIN4.
CD	<24		

See ACCESORIES page 37.



CITY CLASSIC KITS

FROM 3 TO 24 APARTMENTS

KITS EXTENSIONS AND ACCESORIES:

6204

- 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.

4/W 4+N CITYMAX AUDIO KIT

4/W CITY CLASSIC panel and flush

CITYMAX BASIC telephone (4 units).

box (flush box included ref.8949).

Panel S4: 130x199.

Flush box S4: 115x185x45.

• Recommended door lock: 990N-P22 MAX (ref.67501).

NOTE: These kits include the Basic amplifier. (See page 104 to find out the differences between Basic and Complete amplifier).

8303

80447

6203 3/W 4+N CITYMAX AUDIO KIT

8302 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). Power supply 12Vac/1A. DIN4.

6206 6/W 4+N CITYMAX AUDIO KIT

			8304	6/W CITY CLASSIC panel and flush box (flush box included ref.8949).
G D				Panel S4: 130x199.
a b		77		Flush box S4: 115x185x45.
	хб		80447	CITYMAX BASIC telephone (6 units).
		1.7	4802	Power supply 12Vac/1A, DIN4.

4802 Power supply 12Vac/1A. DIN4. **6208** 8/W 4+N CITYMAX AUDIO KIT



6210 10/W 4+N CITYMAX AUDIO KIT

00000	x10	8320 80447	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).
	x10	80447	CITYMAX BASIC telephone (10 units).
	1.0	4802	Power supply 12Vac/1A. DIN4.

6212 12/W 4+N CITYMAX AUDIO KIT



6214 14/W CITYMAX AUDIO KIT

	W. 100	8660	14/W CITY CLASSIC panel.
			Panel S6: 130x294.
		8856	Flush box S6.
9 9 9	Z		Flush box S6: 115x280x45.
g D	x14	80447	CITYMAX BASIC telephone (14 units)
	X14 ***	4802	Power supply 12Vac/1A. DIN4.

6216 16/W CITYMAX AUDIO KIT

		8661	16/W CITY CLASSIC panel.
B D	-		Panel S6: 130x294.
999		8856	Flush box S6.
9 9	17		Flush box S6: 115x280x45.
9 9	1	80447	CITYMAX BASIC telephone (16 units).
	x16	4802	Power supply 12Vac/1A. DIN4.

6218 18/W CITYMAX AUDIO KIT

	-	8700	18/W CITY CLASSIC panel.
9 0			Panel S7: 130x341.
9 9			Flush box S7: 115x328x45.
	1	80447	CITYMAX BASIC telephone (18 units)
x1	8	4802	Power supply 12Vac/1A. DIN4.

6220 20/W CITYMAX AUDIO KIT

	-	8701	20/W CITY CLASSIC panel.
999			Panel S7: 130x341.
			Flush box S7: 115x328x45.
9 9	1	80447	CITYMAX BASIC telephone (20 units).
G D	x20	4802	Power supply 12Vac/1A. DIN4.

6222 22/W CITYMAX AUDIO KIT

	8740	22/W CITY CLASSIC panel.
G D		Panel S8: 130x389.
9 0	8856	Flush box S8: 115x375x45.
	80447	CITYMAX BASIC telephone (22 units).
	4802	Power supply 12Vac/1A. DIN4.
XZZ W		

6224 24/W CITYMAX AUDIO KIT

	,		
G D	-	8741	24/W CITY CLASSIC panel.
			Panel S8: 130x389.
9 0	17	8856	Flush box S8: 115x375x45.
9 9	1	80447	CITYMAX BASIC telephone (24 units).
	U	4802	Power supply 12Vac/1A. DIN4.
10 E	x24		



FERMAX



Solutions for buildings The only fully digital system in 2 wires



Outdoor panel









Fermax MODULAR panel. It is manufactured in aluminium and can fulfill any requirements which may arise in any residential, industrial or service sector projects. Its modular design and versatility provide total creative freedom to create any imaginable combination.





cityline

Monoblock concept panel. It is characterised by its curved profile. It is manufactured in a highly resistant anodised aluminium.

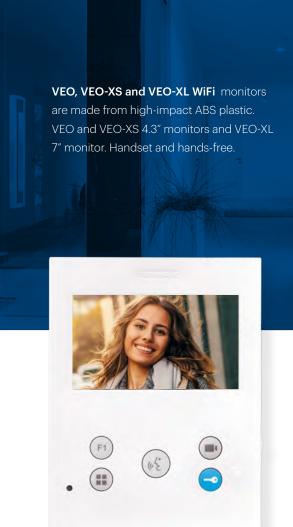






Indoor **terminals**



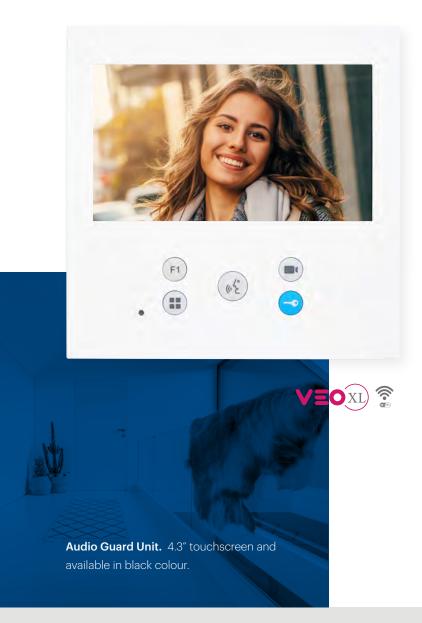




VEO, VEO-XS and VEO-XL WiFi monitors are equipped with a WiFi connection, allowing for calls to be diverted to mobile devices.



FERMAX telephones. Different aesthetics: VEO, LOFT and iLOFT hands-free telephone.









More Powerful

MORE Capacity MORE Technology MORE Flexibility MORE Functions

MORE Connectivity



MORE CAPACITY

Longer distances.

Higher voltage, less consumption.

More terminals per power supply.

MORE FLEXIBILITY

More apartments per floor.

Higher performance with any cable.

Greater simplicity of installation.

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 VEO telephone.

Greater angle of vision on the outdoor panel.

MORE CONNECTIVITY

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

Faster communication.

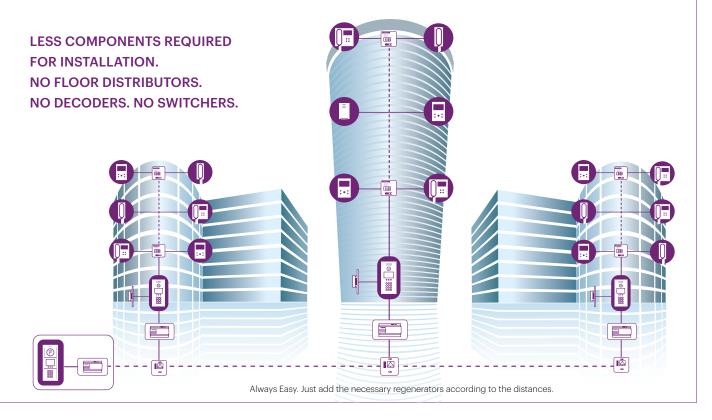




A simplified installation system using only 2 non-polarised wires. No need for floor distributors or panel switchers. The transmission of the signal (audio, video and data) is completely digital, increasing the equipment capacity and robustness against noise and interferences. Built-in voice guided programming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



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



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 (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 CREATIVE FREEDOM** to create any imaginable combination.





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 is twice the size of V**.

















SKYLINE MODULES



ref.73911

ref.73901

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 W

73901 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

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 $\lhd \triangleright$ allow to move through the menu. Press \triangle to call the residence when dialing the door number on the keypad.

- Integrated ONE-TO-ONE module.
- Images display.
- Personalised messages display.
- · Alphanumeric keypad.
- Date and time indicator.

7450 DUOX PLUS DIGITAL DISPLAY W









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 W

7439 DUOX PLUS/VDS/MDS DIRECT KEYPAD W



















CARDHOLDER W



CARDHOLDER V

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 W7444 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

SKYLINE MODULES AND FRAMES





FINGERPRINT 4.500 or 2.970 USERS ref 6936







ref.23361 Customisable



ref.4515



ref.5291



ref.5259



EM

₽EM

EM

ref.5231

STAND-ALONE ACCESS CONTROL MODULES

7438 MEMOKEY W

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. Power supply 12Vac/Vdc.

6936 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 security.

7440 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 module.

23361 EM PROXIMITY CARD

2336 EM PROXIMITY CARD WITH MAGNETIC BAND

4515 EM PROXIMITY KEYRING

2306 PRIVATE PROGRAMMING KEYPAD

It allows to unregister lost identifiers.

5291 RF BASIC-MINI RECEIVER

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

5259 RF KEYSINGLE-MINI EMITTER

5231 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 SKYLINE FRAME 7V - S8 130x389 7337 SKYLINE FRAME 8V - S9 130x436,5 7338











8829 JOINING BOLTS SET

It allows to combine two or more frames. One set is required for each additional frame installed on flush box.

A cable is required per each additional frame in order to connect the push buttons modules between both frames (70cm).

2541 DUOX PLUS/VDS CONNECTION CABLE (6W)2542 DUOX PLUS/VDS CONNECTION CABLE (5W)

CITYLINE AND SKYLINE PANELS ACCESSORIES













			00	200	^	ll-	0	8 5
	FLUSH	SURFACE	HOOD		MODULAR	CITY FRAME		ANGULAR
	BOX	ВОХ	SINGLE	DOUBLE	FRAME*	SINGLE	DOUBLE	COMPLEMENT
S1	ref.8851 115x114x45	ref. 7061 130x128x33	ref.8400 135x130	-	ref.9191 211x210	ref.8251 225x310	-	ref.8378
S2	ref.8852 115x138x45	ref. 7062 130x151x33	ref.8401 135x155	-	ref.9192 211x234	ref.8252 225x310	-	ref.8379
CITYLINE only	ref.8853 115x162x45	ref. 7063 130x175x33	ref.8402 135x177,5	-	ref.9193 211x257	ref.8253 225x375	-	ref.8380
S4	ref.8854 115x185x45	ref.7064 130x199x33	ref. 8403 135x203	ref.8411 265x203	ref.9194 211x281	ref.8254 225x375	ref.8427 355x385	ref.8381
S5	ref.8855 115x233x45	ref. 7065 130x246x33	ref.8404 135x250	ref.8412 265x250	ref.9195 211x329	ref.8255 225x375	ref.8428 355x385	ref.8382
S6	ref.8856 115x280x45	ref.7066 130x294x33	ref.8405 135x300	ref.8413 265x300	ref.9196 211x376	ref.8256 225x450	ref.8429 355x460	ref.8383
S7	ref.8857 115x328x45	ref. 7067 130x341x33	ref.8406 135x345	ref.8414 265x345	ref.9197 211x424	ref.8257 225x450	ref.8430 355x460	ref.8384
S8	ref.8858 115x375x45	ref.7068 130x389x33	ref.8407 135x393	ref.8415 265x393	ref.9198 211x471	ref.8258 225x450	ref.8431 355x460	ref.8385
S9	ref.8982 115x420,5x45	ref.7069 130x436,5x33	ref.8480 135x440,5	ref.8483 265x440,5	ref.9199 211x519	ref.8259 225x495	ref.8474 355x500	ref.8386

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

 $^{^{\}star}$ 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 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 COLOUR CAMERA and additional night vision lighting with 6 LEDS (Horizontal angle vision 100°/ Vertical 80°).

PUSH BUTTONS CITYLINE 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.8829).
- 2. Add call extension modules depending on the number of apartments (ref.2008 up to 8, ref.2441 up to 16). NOTE: DUOX PLUS Cityline panels S1 (1 and 2 push buttons) don't need call extension modules.
- 3. Select the flush box or corresponding accessories depending on the SERIES (see accessories table page 41).





ref.2441



ref.2008

8829 JOINING BOLTS SET

2441 16 CALL EXTENSION MODULES 8 CALL EXTENSION MODULES 2008

SERIES 1 // Panel: 130x128

Flush box (ref.8851): 115x114x45



ref.40708 1 Push.



ref.40008 2 Push.



ref.40704 1 Push.



ref.40004 2 Push.

SERIES 2 // Panel: 130x151

Flush box (ref8852): 115x138x45







ref.40018

4 Push.



ref.40714 2 Push.



SERIES 3 // Panel: 130x175

Flush box (ref.8853): 115x162x45





ref.40728 3 Push.

ref.40724 3 Push.

SERIES 4 // Panel: 130x199

Flush box (ref.8854): 115x185x45





ref.40748 4 Push.

ref.40744 4 Push.

DIRECT AND DIGITAL CITYLINE PANELS



ref.73631

ref.7309

ref.73638

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



ref.73871

ref.7310

ref.73878

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. Adding a DIRECTORY PANEL is recommended.

73631 DUOX PLUS DIRECT VIDEO CITY PANEL S5

7309 DIRECTORY PANEL S5

73638 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 any DUOX PLUS guard unit ref. 9423 in the installation (for example, to call the guard unit 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.

73611 DUOX PLUS DIRECT AUDIO CITY PANEL

73614 DUOX PLUS DIRECT 1W CITY PANEL

8855 FLUSH BOX S5

8829 JOINING BOLTS SET

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 any DUOX PLUS guard unit ref. 9423 in the installation (for example, to call the guard unit 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.

73851 DUOX PLUS DIGITAL AUDIO CITY PANEL

7310 DIRECTORY CITY PANEL S7

8857 FLUSH BOX S7

8858 FLUSH BOX S8

8829 JOINING BOLTS SET

SPECIAL CITYLINE PANELS

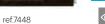
If you cannot find the desired panel, you can design your own SKYLINE panel or ask for a SPECIAL CITYLINE panel.

7321	SPECIAL CITYLINE PANEL S1	7328	SPECIAL CITYLINE PANEL S8
7322	SPECIAL CITYLINE PANEL S2	7329	SPECIAL CITYLINE PANEL S9
7323	SPECIAL CITYLINE PANEL S3		
7324	SPECIAL CITYLINE PANEL S4	8999	SINGLE SPECIAL CITYLINE FRAME (1 PANEL)
7325	SPECIAL CITYLINE PANEL S5	89992	DOUBLE SPECIAL CITYLINE FRAME (2 PANELS)
7326	SPECIAL CITYLINE PANEL S6	89993	TRIPLE SPECIAL CITYLINE FRAME (3 PANELS)
7327	SPECIAL CITYLINE PANEL S7	NOTE: S	PECIAL CITYLINE frames are made from aluminium.

CITYLINE PANELS







INFORMATIVE MODULES AND COMPLEMENTS

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 technologies: DUOX PLUS, VDS, MDS and 4+N technologies.





ref7452



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.



ref 7444

7444 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.



ref.7442

7442 METALLIC COMPLEMENT V

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



EM PROXIMITY READER 400 USERS ref.7440

STAND-ALONE ACCESS CONTROL MODULES

For more information see the section "Access Control".

7440 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 module.





23361 EM PROXIMITY CARD

EM PROXIMITY CARD WITH MAGNETIC BAND 2336

4515 PROXIMITY KEYRING







ref.5291





ref.5259

ref.5231

2306 PRIVATE PROGRAMMING KEYPAD

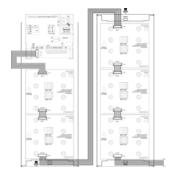
It allows to unregister lost identifiers.

5291 RF BASIC-MINI RECEIVER

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

5259 RF KEYSINGLE-MINI EMITTER

5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH





CONNECTION CABLES FOR SKYLINE AND CITYLINE PANELS

A cable per additional panel is required in order to connect the push buttons modules between both frames. Dimensions: 70cm.

2541 DUOX PLUS/VDS CONNECTION CABLE (6W) 2542 DUOX PLUS/VDS CONNECTION CABLE (5W)

CITYLINE ACCESSORIES

See ACCESSORIES PAGE 39.

1. OUTDOOR PANEL



MARINE PANEL

MARINE panel is the Fermax **IP54 IK09** vandal-proof door entry system. 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 extreme weather conditions places or dangerous environments.

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).
- 2. 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).
- 3. 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.



55261 DUOX PLUS DIGITAL MARINE VIDEO PANEL ST355281 DUOX PLUS DIGITAL MARINE VIDEO PANEL ST4 PROX

55268 DUOX PLUS DIGITAL 1W MARINE VIDEO PANEL ST3+

55288 DUOX PLUS DIGITAL 1W MARINE VIDEO PANEL PROX ST4

In addition to being able to call the main guard unit by pressing the "bell" key, these outdoor panel models also include a push button to call directly any DUOX PLUS ref. 9423 guard unit in the installation (for example, to call from a block panel to the guard unit at the General Entrance). That guard unit address must be previously configured by the installer.

5471 MARINE ST3 DIRECTORY PANEL





	SERIES ST3	SERIES ST3+	SERIES ST4
	Panel: 150x360	Panel: 150x420	Panel: 150x485
FLUSH	ref.4643	ref.4653	ref.4644
BOX	130X340X55	130X400X55	130X465X55
SURFACE BOX (with hood)	ref.4647 154x364x96	ref.4654 154x423x96	ref.4648 154x489x96
HOOD	ref.4703	ref.4655	ref.4704

PUSH BUTTONS AND DIGITAL MARINE PANELS



2289 MARINE JOINING BOLTS SET FOR FLUSH BOX2441 16 CALL EXTENSION MODULES

2441 16 CALL EXTENSION MODULES2008 8 CALL EXTENSION MODULES





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 make 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.



Check for availability in other colours.





MANUFACTURING PROCESS OF MARINE PANELS











MARINE ELITE. UNIQUELY FERMAX. SPECIALLY MADE FOR YOU!



3172 SPECIAL MARINE PANEL

The following variations may be ordered:

- · 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.
- · Include backlight.

4579 SPECIAL MARINE RAINHOOD FOR FLUSH BOX PANEL

4580 SPECIAL MARINE FLUSH BOX

4581 SPECIAL MARINE SURFACE BOX (WITH HOOD)

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

2. MONITORS AND TELEPHONES





VEO, VEO-XS AND VEO-XL WIFI MONITORS





Dimensions: 200x200x23mm (44mm with handset).

9446 DUOX PLUS VEO WiFi MONITOR

7

9456 DUOX PLUS VEO WIFI MONITOR WITH INDUCTIVE LOOP

Hands-free. Dimensions: 125x165x21mm.

9449 DUOX PLUS VEO-XS WiFi MONITOR

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9459 DUOX PLUS VEO-XS WIFI MONITOR WITH INDUCTIVE LOOP

Hands-free. Dimensions: 185x185x21mm.

9469 DUOX PLUS VEO-XL WiFi MONITOR

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9479 DUOX PLUS VEO-XL WIFI MONITOR WITH INDUCTIVE LOOP

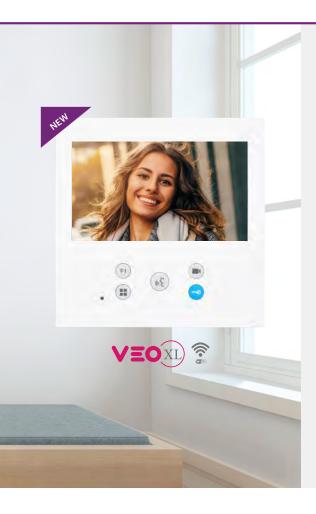


9447 DUOX PLUS CONNECTOR

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







VEO, VEO-XS AND VEO-XL MONITORS

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

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.



<< Scan this QR code to watch the video

VEO, VEO-XS AND VEO-XL MONITORS



Dimensions: 200x200x23mm (44 mm with handset).

9445 DUOX PLUS VEO MONITOR

9

9455 DUOX PLUS VEO MONITOR WITH INDUCTIVE LOOP

Hands-free. Dimensions: 125x165x21 mm.

9448 DUOX PLUS VEO-XS MONITOR

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9458 DUOX PLUS VEO-XS WITH INDUCTIVE LOOP

Hands-free. Dimensions: 185x185x21 mm.

9468 DUOX PLUS VEO-XL MONITOR

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9478 DUOX PLUS VEO-XL WITH INDUCTIVE LOOP



9447 DUOX PLUS CONNECTOR

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

TELEPHONES

VEO, LOFT and iLOFT telephones include the following features:

- Door opener button and call to guard.
- 5 selectable ring tones.
- Ring volume control.
- Door bell.

Loft Extra and iLOFT phones include buttons for additional functions: lights on 2nd door opening, etc. Loft Extra: 2 additional buttons; iLOFT: 1 additional button.



VEO. 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: 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



FERMAX desktop supports allow to answer a call to the entrance panel from the office desktop. Made of stainless steel (AISI 316L).

9410 VEO MONITOR DESKTOP SUPPORT

9420 VEO-XS AND VEO-XL MONITOR DESKTOP SUPPORT

3749 VEO/LOFT TELEPHONE DESKTOP SUPPORT5636 ILOFT TELEPHONE DESKTOP SUPPORT

FERMAX Decorative Frames are aesthetic complements. Useful in

retrofitting applications or replacement of previous equipment.

3380 LOFT TELEPHONE DECORATIVE FRAME. 200X240

3388 UNIVERSAL DECORATIVE FRAME. 120X240

3389 UNIVERSAL LARGE DECORATIVE FRAME. 210X240

3441 LOFT HANDSET WITH INDUCTIVE LOOP
3443 VEO HANDSET WITH INDUCTIVE LOOP



3. GUARD UNIT



ref.9423 Dimensions: 200x200mm Desktop support included...

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: www.fermax.com/intl/en/pro/documents.html

3268 1/W DUOX PLUS DUAL REGENERATOR

It has 1 input 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 an additional power supply units will depend on the power that reaches the regenerator.

For more information: www.fermax.com/intl/en/pro/documents.html

	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)

5. DECODER



9419 DUOX PLUS DECODER/ISOLATOR

10-outputs floor decoder. One output per home, allowing a maximum of one terminal (monitor/telephone) per home. Multiple decoders can be installed on each floor.

Each output regenerates the bus signal, so it acts as a regenerator and 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.

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.

The decoder is powered directly from the DUOX PLUS bus.

With mounting on DIN10 rail.

6. POWER SUPPLY AND ADAPTORS





3255 DUOX PLUS LINE ADAPTOR

Necessary at the beginning and the end of every riser.

4825 POWER SUPPLY+FILTER 24VDC-2.5A DIN10

TABLE OF NUMBER OF TERMINALS

IN FLOOR DISTRIBUTION TOPOLOGY (4 PER FLOOR)

	VEO / VEO-XS MONITOR		VEO-XL MONITOR		
	NO WiFi	WiFi	NO WiFi	WiFi	Phones
1,0 mm ²	40	28	34	24	80
0,5 mm ²	40	24	30	18	80
0,2 mm ²	36	20	24	12	72

TABLE OF NUMBER OF TERMINALS IN CASCADE TOPOLOGY

	VEO / VEO-XS MONITOR		VEO-XL MC		
	NO WiFi	WiFi	NO WiFi	WiFi	Phones
1,0 mm ²	40	26	30	20	60
0,5 mm ²	32	20	22	14	45
0,2 mm ²	18	12	12	10	25





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



990 Series consumption					
N,A	12Vac 12Vdc	250mA 250mA			

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).

8. ACCESSORIES



ref.9444



ref.9980



ref.9981



ref.9982



ref.9983

VIDEO ACCESSORIES

9444 DUOX PLUS CAMERA INTERFACE

The DUOX PLUS camera interface is a device that allows you to integrate CCTV analog composite video cameras in a DUOX PLUS installation. It transforms the analog composite video signal (1 Vpp, 75 ohm) from a camera (PAL / NTSC) into a DUOX PLUS which connects directly to the DUOX PLUS bus.

- An interface is required for each camera installed in a DUOX PLUS installation.
- Each camera must be powered externally with an additional power supply.
- The interface is powered directly by the DUOX PLUS bus.

AUTO-ON FUNCTION with installed interface.

In standby, press "camera button" in the monitor to perform an auto-on with different panels / cameras. Pressing in sequence, the display is:

- 1. Panel O or Camera O on the block (one or the other).
- 2. Panel 1 or Camera 1 on the block (one or the other).
- 3. Panel O or Camera O on the General Entrance (one or the other).

9980 PERIPHERAL CCTV DOME CAMERA

9981 PERIPHERAL CCTV BULLET CAMERA

The features of these cameras may change without prior notice. See technical specifications.

9982 POWER SUPPLY PERIPHERAL CCTV CAMERA

9983 BALUNS PAIR PERIPHERAL CCTV CAMERA

9984 POWER ADAPTOR PERIPHERAL CCTV CAMERA



ref.3233



ref.3267



ref.9443

ADDITIONAL FUNCTIONS

3233 DUOX PLUS BASIC RELAY

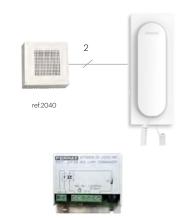
Basic functions. Allows you to activate an additional function from F1 or F2 of the DUOX PLUS terminals, without additional wiring. The relay can also be activated by the call or by activating the lock release. It can be connected at any point of the bus.

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.

9443 DUOX PLUS LIFT CONTROL UNIT

The DUOX PLUS lift control unit ref. 9443 is a model used to provide a lift control service for the DUOX PLUS installation. This allows visitors to access only the floor corresponding to the flat that has opened the door for them. It is an interface between DUOX PLUS and MDS. The MDS Central Unit is responsible for the lift control function, as well as the MDS relay decoders.



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 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.



ref.5925

CABLES

5925 DUOX PLUS PARALLEL CABLE 2x1mm2

Cables are supplied in 100 metres rolls.



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 look like in the home exterior or interior.

FERMAX



Download our free App FERMAX FOR REAL on your mobile device







FERMAX



Solutions for buildings
The IP system based on point-to-point infrastructure



Outdoor Panels





FERMAX

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NEO monitor for modern and urban residences. Compact design and intuitive,
NEO is the perfect complement for your
dreamed house.

The system is based on MILO panels with a push button and a proximity reader, two digital outdoor panels, with touch capacitive keypad or robust mechanical keypad; KIN panel with 10" touch screen and MARINE vandal-proof outdoor panel.









WIT monitor, the most suitable option for the most exclusive spaces. Touch screen interface that allows the user to access the monitor's functions in a very easy and comfortable way.

TECHNOLOGY: ____



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.

SYSTEM FEATURES

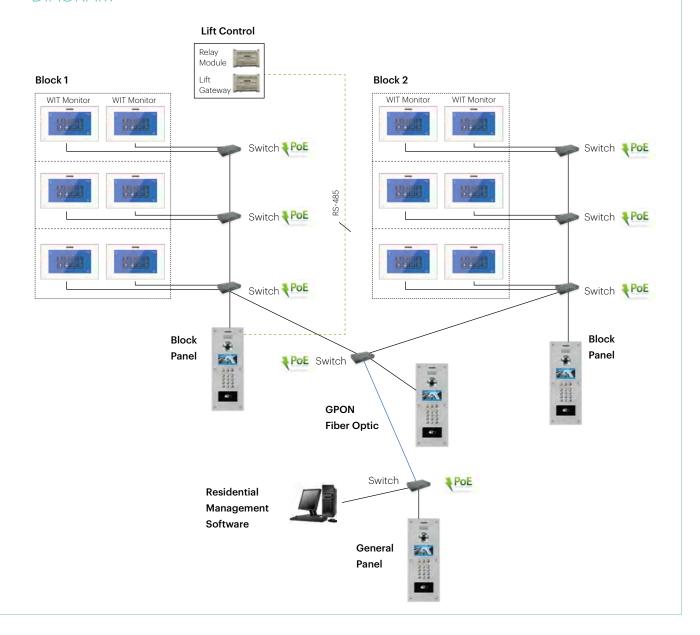


Wiring	UTP CAT5/CAT6. (non PoE devices like MILO need PoE splitter or 2 additional
	wires).
Maximum number of apartments	9899 per block.
Maximum number of outdoor panels	99 per block.
Maximum Number of monitors per apartment	9 (1 master and 8 slaves)
Maximum number of blocks	999
Max. Number of Guard 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



TECHNOLOGY: ____



1. OUTDOOR PANEL



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*

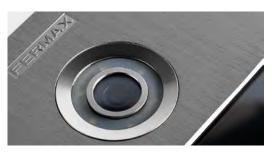
In addition to offering great security features with the MIFARE proximity reader, the KIN panel supports integration of third-party readers such as HID and Wiegand.

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.





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

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





MARINE PANEL

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 **IK09** 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 more technical information please check the table and diagrams section at the end of this catalogue.

1455 MARINE DIGITAL VIDEO PANEL MEET
 155x 410x 49mm

 1456 MARINE DIRECTORY PANEL MEET
 155x410x49mm

 1458 MARINE PANEL SURFACE BOX MEET
 159x412x63.5mm

1459 MARINE PANEL FLUSH BOX MEET

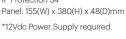
141x394x60mm

14591 MEET FLUSH BOX JOINING BOLTS SET

Separation between 14mm flush boxes













ref.9532



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 (Digital MILO Panel)

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.

ACCESS CONTROL BY PROXIMITY

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
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 Panel: 118x183x49mm. 1 Mpx.
9535	MEET PROXIMITY READER Panel: 118x183x49mm.
9543	MEET PANEL FLUSH - S Flush box: 105x172,5x63mm

14591 MEET FLUSH BOX JOINING BOLTS SET
Separation between 14mm flush box

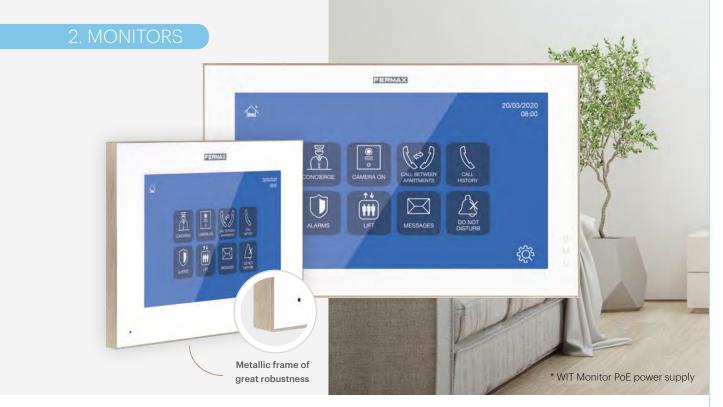
Flush box: 123x190x66-106mm

1/W MILO PANEL SURFACE BOX MEET

9518







The **new 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.



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

TECHNOLOGY: V





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



PoE

14501

NEO 7" MONITOR POE WHITE MEET

Dimensions 203x129x17.5 mm

9541

NEO/WIT MONITOR CONNECTOR MEET

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.

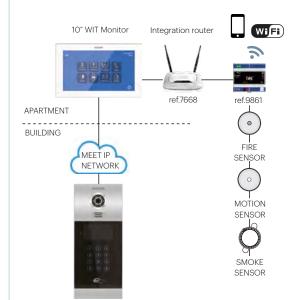
ref.1485

NEO monitor does not allow installation of APPs



3. HOME AUTOMATION INTEGRATION







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 for home automation.

GATEWAYS

9861 ETHBUS-KNX WEB SERVER

7668 MEET-HOME AUTOMATION INTEGRATION ROUTER

4. CALL DIVERT



With MEET, you can receive calls on the mobile phone. It comes as a standard option with your monitor that allows communication with the entrance panels and to open doors. Allows to view who is calling before answering the call.

As easy for the user as downloading the free APP MEET ME 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.

1496 MEET ME CALL FORWARDING LICENSE

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

^{*} 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.

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 great 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

- 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.

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.

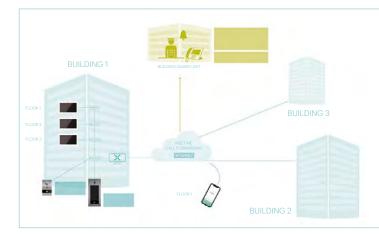
CAMERA ON

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



Different **outdoor panels** from different buildings can call one or several remote guard units.

These remote guard units can call and connect with the outdoor panels.

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 on the MEET ME cloud server.

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.



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.



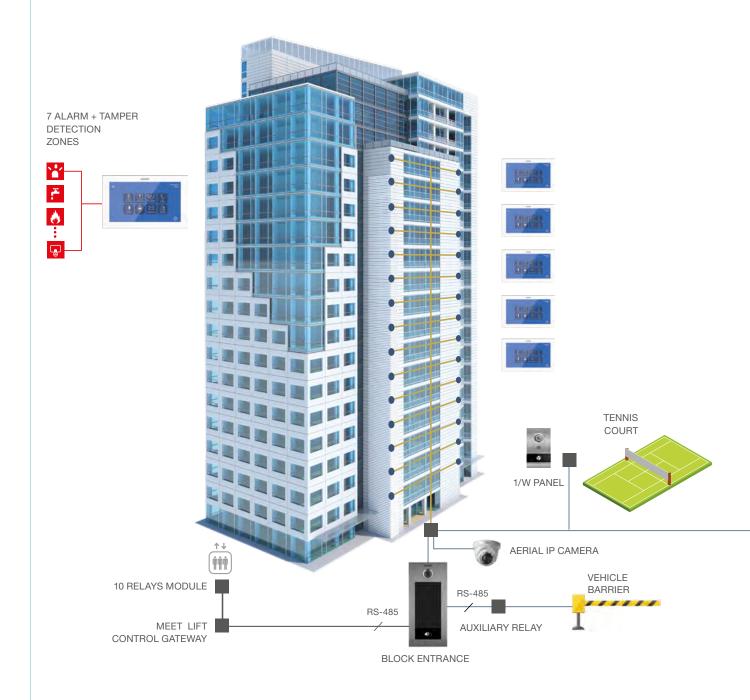


GPON OPTICAL FIBER



- 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: V



TECHNICAL CAPABILITIES

- 1 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.



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.

GRAPHICAL USER INTERFACE

Easy, intuitive and user friendly. Meet system uses universal icons that represent each single function, making it accessible to everyone.

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.



32730	I ROXIMIT I OARD MIII ARE I ERMAX
52740	PROXIMITY KEYRING FERMAX 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.

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



FERMAX



Solutions for buildings

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

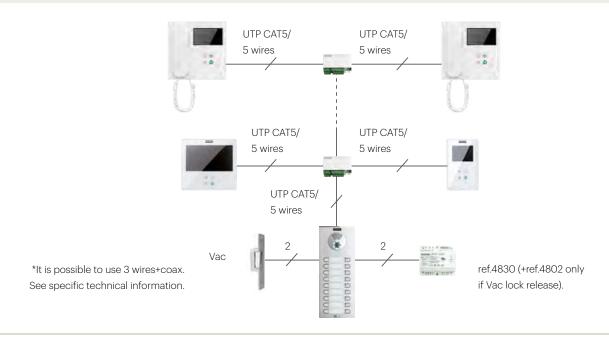
For buildings of up to 199 homes, 2 entry accesses and central guard unit. Maximum distance: 200 m.



COMPOSITION



VIDEO DIAGRAM



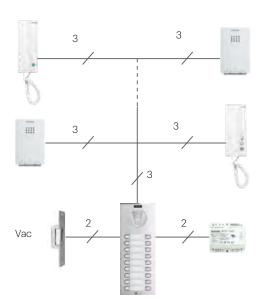




SYSTEM FEATURES

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 CREATIVE FREEDOM** to create any imaginable combination.







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.

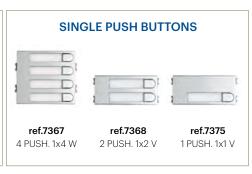


SKYLINE consists of 8 different-sized frames where different modules can easily be fitted. Modules come in 2 sizes, designated V and W. W is twice the size of V.























It allows to combine two or more frames. One set is required for each additional frame installed on flush box.





A cable per each additional frame is required to connect the push button modules between both frames. Dimensions 70cm.

2541 DUOX PLUS/VDS CONNECTION CABLE (6W)

2542 DUOX PLUS/VDS CONNECTION CABLE (5W)

SKYLINE AND CITYLINE ACCESSORIES













	000		00	nn a	- ^	J.	O.	8 3
	FLUSH	SURFACE BOX	HOOD		*MODULAR	CITY FRAME		ANGULAR
	вох		SINGLE	DOUBLE	FRAME	SINGLE	DOUBLE	COMPLEMENT
S1	ref.8851 115x114x45	ref. 7061 130x128x33	ref.8400 135x130	-	ref.9191 211x210	ref.8251 225x310	-	ref.8378
S2	ref.8852 115x138x45	ref. 7062 130x151x33	ref.8401 135x155	-	ref.9192 211x234	ref.8252 225x310	-	ref.8379
CITYLINE Only	ref.8853 115x162x45	ref. 7063 130x175x33	ref.8402 135x177,5	-	ref.9193 211x257	ref.8253 225x375	-	ref.8380
S4	ref.8854 115x185x45	ref.7064 130x199x33	ref.8403 135x203	ref.8411 265x203	ref.9194 211x281	ref.8254 225x375	ref.8427 355x385	ref.8381
S5	ref.8855 115x233x45	ref.7065 130x246x33	ref.8404 135x250	ref.8412 265x250	ref.9195 211x329	ref.8255 225x375	ref.8428 355x385	ref.8382
S6	ref.8856 115x280x45	ref.7066 130x294x33	ref.8405 135x300	ref.8413 265x300	ref.9196 211x376	ref.8256 225x450	ref.8429 355x460	ref.8383
S7	ref.8857 115x328x45	ref. 7067 130x341x33	ref.8406 135x345	ref.8414 265x345	ref.9197 211x424	ref.8257 225x450	ref.8430 355x460	ref.8384
S8	ref.8858 115x375x45	ref. 7068 130x389x33	ref.8407 135x393	ref.8415 265x393	ref.9198 211x471	ref.8258 225x450	ref.8431 355x460	ref.8385
S9	ref.8982 115x420,5x45	ref.7069 130x436,5x33	ref.8480 135x440,5	ref.8483 265x440,5	ref.9199 211x519	ref.8259 225x495	ref.8474 355x500	ref.8386

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

 $^{^{\}star}$ 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 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 COLOUR CAMERA and additional night vision lighting with 6 LEDS.

PUSH BUTTON CITYLINE PANELS

- 1. 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).
- 2. Add call extension modules depending on the number of apartments (ref.2008 up to 8, ref.2441 up to 16). NOTE: They are only necessary for 4 buttons or more.
- 3. Select the flush box or corresponding accessories depending on the series (see accessories table pag 78).

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



ref.70707 1 Push.



ref.70007 2 Push.



ref.70703 1 Push.



ref.70003 2 Push.



ref.70717 2 Push.



ref.70017 4 Push.



ref.70713 2 Push.

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



ref.70013 4 Push.

SERIES 3 // Panel: 130x175 Flusch box (ref.8853): 115x162x45



ref.70727 3 Push.



ref.70723 3 Push.



ref.70747 4 Push.



ref.70743 4 Push.







ref.2008

8829

JOINING BOLTS SET

2441 2008

16 CALL EXTENSION MODULE 8 CALL EXTENSION MODULE

TECHNOLOGY: VDS 5 WIRES BUS

DIRECT AND DIGITAL CITYLINE PANELS



ref.7363

ref.7309

Panel dimensions: 130x246 (S5)

Flush box dimensions: 115x233x45 (S5)



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

DIRECT CITYLINE PANELS

DIRECT panels have a KEYPAD to call the apartments. The keypad admits 1 code to open the door. Adding a DIRECTORY PANEL is recommended.

7305	VDS DIRECT VIDEO CITY PANEL S5
7308	VDS DIRECT AUDIO CITY PANEL S5

7309 DIRECTORY PANEL S5

8855 FLUSH BOX S5

8829 JOINING BOLTS SET

DIGITAL CITYLINE PANELS

DIGITAL panels include keypad and LCD display with 16 characters and 2 rows). The keypad includes access control function (350 codes).

7299 VDS DIGITAL VIDEO CITY PANEL S7

7310 DIRECTORY CITY PANEL S7

8857 FLUSH BOX S7

8829 JOINING BOLTS SET

SPECIAL PANELS

If you cannot find the desired panel, you can make your own SKYLINE panel or ask for SPECIAL CITYLINE panel. You can find "Special frames and panels application forms" at www.fermax.com/intl/en/pro/online-support/special-panels.html

7321	SPECIAL CITYLINE PANEL S1	7328	SPECIAL CITYLINE PANEL S8
7322	SPECIAL CITYLINE PANEL S2	7329	SPECIAL CITYLINE PANEL S9
7323	SPECIAL CITYLINE PANEL S3		
7324	SPECIAL CITYLINE PANEL S4	8999	SINGLE SPECIAL CITYLINE FRAME (1 PANEL)
7325	SPECIAL CITYLINE PANEL S5	89992	DOUBLE SPECIAL CITYLINE FRAME (2 PANELS)
	SPECIAL CITYLINE PANEL S6	89993	TRIPLE SPECIAL CITYLINE FRAME (3 PANELS)
7327	SPECIAL CITYLINE PANEL S7	NOTE: s	pecial CITYLINE frames are made from aluminium.

CITYLINE PANEL ACCESSORIES

See ACCESSORIES PAGE 78.



CITYLINE PANEL MODULES





ref.7448







ref.7452





ref.7444



ref.7442

INFORMATION MODULES AND COMPLEMENTS

7448 ONE TO ONE V MODULE

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

7452 ONE TO ONE W/IND. LOOP V MODULE

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.

PANORAMIC CARDHOLDER V 7444

Informative card holder with lighting to personalize the building, indicate the address or as a directory of neighbors and necessary door codes on coded digital panels.

7442 METALLIC COMPLEMENT V

Made of the same material as aluminum panels. It allows to cover gaps in the plate for the installation of future modules.



PROXIMITY. 400 USERS ref.7440

ACCESS CONTROL MODULES

For more information see the section "Access Control".



PROXIMITY READER V 7440

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 module.





ref.23361 Customizable

ref.4515

EM 23361 **EM PROXIMITY CARD**

EM EM PROXIMITY CARD WITH MAGNETIC BAND 2336

4515 PROXIMITY KEYRING EM



ref.5291





ref.5231

PRIVATE PROGRAMMING KEYPAD 2306

It allows to unregister lost identifiers.

5291 RF BASIC-MINI RECEIVER

To be installed inside the outdoor panels. Remote opening from remote controller with high security code.

5259 RF KEYSINGLE-MINI EMITTER

5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH

TECHNOLOGY: VDS 5 WIRES BUS

1. OUTDOOR PANEL



MARINE PANEL

MARINE is the FERMAX vandal-proof door entry panel made in AISI 316L stainless steel (2,5mm-thick). IP54 IKO9.

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.

A **synthesized message** - "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 154 in the DUOX PLUS section.

PUSH BUTTONS MARINE PANELS

- **1.** Select the panel required according to the number of apartments in the building. In case that several flush boxes of the same size are combined, it will be necessary to use the Joining Bolts Set (ref.2289).
- 2. Always add call extension modules depending on the number of apartments (ref. 2008 up to 8, ref. 2441 up to 16).
- 3. 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 more MARINE push buttons panels see SPECIAL MARINE PANELS.



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.
- 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

Flush box (ref.4643): 130x340x55

SURFACE ref.4647
BOX 154x364x96

(with hood)

HOOD ref.4703







ref.2441 ref.2008

2289 MARINE JOINING BOLTS SET FOR FLUSH BOXES

2441 16 CALL EXTENSION MODULES2008 8 CALL EXTENSION MODULES



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 make 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.



Check for availability in other colours.





MANUFACTURING PROCESS OF MARINE PANELS











MARINE ELITE. UNIQUELY FERMAX. SPECIALLY MADE FOR YOU!



3172 SPECIAL MARINE PANEL

The following variations may be ordered:

- · 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.
- · Include backlight.

4579 SPECIAL MARINE RAINHOOD FOR FLUSH BOX PANEL

4580 SPECIAL MARINE FLUSH BOX

4581 SPECIAL MARINE SURFACE BOX (WITH HOOD)

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

TECHNOLOGY: VDS 5 WIRES BUS

2 MONITORS AND TELEPHONES

MONITORS





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 o 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

Dimensions: 200x200x23mm. (44 with handset)

9402 VDS VEO MONITOR CONNNECTOR



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



ref.9410



ref.3389

VEO MONITOR ACCESSORIES

9410 VEO MONITOR DESKTOP SUPPORT

Made in AISI 316L stainless steel. Connector ref.9402 is also required. $\label{eq:connector}$

3389 UNIVERSAL LARGE DECORATIVE FRAME. 210x240

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



3443

VEO HANDSET WITH INDUCTIVE LOOP







Dimensions: 185x172x21mm

Dimensions: 103x172x21mm

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.

3,5" SMILE MONITOR 6545 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).

7" SMILE TOUCH MONITOR 6575



Dimensions: 185x172x21mm



ref 6565



ref.6566



ref.3388



ref.3389

SMILE MONITOR ACCESSORIES

Connector needed for surface mounted.

6566 SMILE MONITOR DESKTOP SUPPORT

A connector is required and must be ordered

separately.

6565 VDS SMILE MONITOR CONNECTOR

3388 UNIVERSAL DECORATIVE FRAME. 120x240

3389 UNIVERSAL LARGE DECORATIVE FRAME. 210x240

TECHNOLOGY: VDS 5 WIRES BUS

TELEPHONES

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

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

Additionally, the **LOFT EXTRA** and **iLOFT** telephones include:

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

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



3. GUARD UNIT



2536 VDS CITYMAX GUARD UNIT

3 operating modes:

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

2492 VDS GUARD UNIT CONNECTION MODULE

For installation with outdoor panel. DIN10 format.

4. VIDEO DISTRIBUTORS





ref 2448

ref.3260

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

2448 2 WAYS VIDEO DISTRIBUTOR2449 4 WAYS VIDEO DISTRIBUTOR

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

3260 2 WAYS VIDEO MINI DISTRIBUTOR3262 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

TECHNOLOGY: \ 5 WIRES BUS

6. POWER SUPPLY



ref.4830



ref.4812



10 to 10 mag am ce



ref.4802

ref.4800



POWER SUPPLY 18Vdc/3,5 A DIN6. 4830

1 P.S. = max. 40 monitors.

4812 POWER SUPPLY DIN6 100-240Vac/18Vdc-1,5A

1 P.S. = max. 24 monitors.

4810 POWER SUPPLY 18Vcc/1,5A-12Vca/1,5A DIN10.

1 P.S. = max. 24 monitors 12Vac output to supply 12Vac locks.

POWER SUPPLY DIN4 230VAC 12VAC/1A 4802

To supply 12Vac locks.

4800 POWER SUPPLY DIN4 230VAC 12VAC/1A

To supply 12Vac locks.

1021 **EMERGENCY MODULE 18Vdc**

For operation in the event of power cuts. Requires 2 lead acid batteries 12V/2,2A (ref.2070).

2070 BATTERY 12V/2,2A

7. LOCK RELEASE



990 Series consumption					
N,A	12Vac 12Vdc	250mA 250mA			

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

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).



8. ACCESSORIES









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

TERMINAL AND MUCH MORE!

ref.3266

ADVANTAGES





SEGURITY

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

COMFORT

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





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.



MORE MOBILITY

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



WIBO)

TECHNOLOGY: VDS 5 WIRES BUS



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

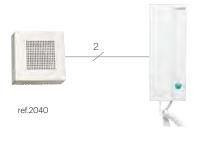
Allows for the activation of a device for a given time (programmable from 0 to 6 minutes or 0 to 60 seconds). The activation can be automatic when a call is received or by means of a specific button on the telephone or monitor.



ref.2013



ref.29001





ref.2438

CALL ACCESSORIES

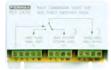
2040 ELECTRONIC CALL EXTENSION BELL

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.







ref.2472



ref.9981



ref.9980





ref.9982



VIDEO ACCESSORIES

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 8 cameras).

2450 VDS VIDEO SWITCHER

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

2472 8 CAMERAS SELECTOR

Allows to control up to 8 cameras from the monitor (using F1 and F2).

4614 2nd CAMERA SELECTOR

To select a 2nd camera by means of



4110 VIDEO SIGNAL AMPLIFIER

To regenerate the video signal of the coaxial.

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

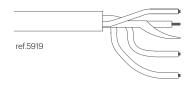




All cables are suplied in 100 metres rolls.

VIDEO BUS CABLE. 100M

3 wires of 1mm2 + 1 coax 75 Ohms.





FERMAX



Solutions for buildings

MDS (MULTIPLEXED DIGITAL SYSTEM) IS AN AUDIO AND VIDEO DOOR ENTRY 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 DIGITAL.

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.





NE CITYLINE

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
- 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.







ref.7287 ref.7318

ref.7286

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.

Access control (proximity, fingerprint, keypad, etc.) integrated in the video door entry MDS bus itself.

Centralised access control managed from the video door entry software itself.

Programmed automation through relays decoders (up to 999 addresses) and sensors (up to 999 addresses) in order to activate lights, sensors, irrigation, etc.

Lift control. Different lift control modes to restrict access to non-authorised floors.

Management via local and remote PC (via the IP remote management module ref. 1087). It connects to the network (Ethernet) without requiring any additional cable.

All of this with:

- More panels
- More apartments
- More guard units (including differentiated call to several guard units, both from 2 push buttons panels as well as monitors/telephones).







CITYLINE



MARINE

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 CREATIVE FREEDOM** to create any imaginable combination.



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.**

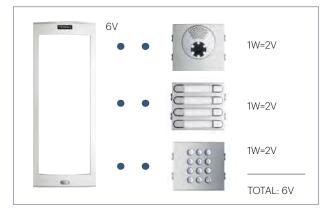








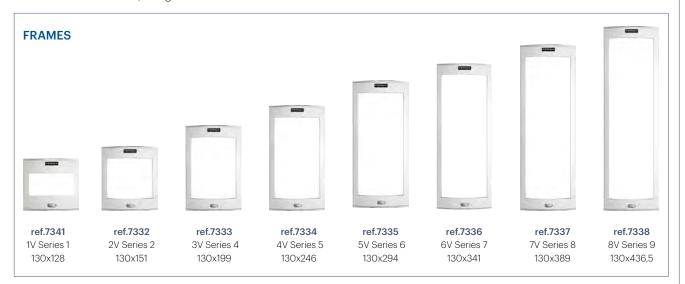






The module-frame clip-on assembly system is very simple and effective. The modules fit perfectly into the profile. Watertight tapes prevent water and dirt to get in. Once the panel is assembled, the different modules are connected to each other.

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

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. In case of any additional accessory required, see the CITYLINE/SKYLINE accessories table on page 78.

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



MDS DIRECT





ref.7318

ref 7286

7287 MDS DIRECT VIDEO CITY PANEL S6
7286 MDS DIRECT AUDIO CITY PANEL S6
7318 DIRECTORY CITY PANEL S6

ACCESSORIES

8856 FLUSH BOX S67066 SURFACE BOX S68829 JOINING BOLTS SET

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 106) 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.



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.

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

7310 DIRECTORY CITY PANEL S7

SKYLINE AND CITYLINE ACCESSORIES

8857 FLUSH BOX S77067 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 S77481 URBANLINE AUDIO PANEL S7

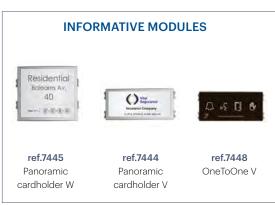
ACCESSORIES

8857 FLUSH BOX S7

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

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. In case of any additional accessory was needed, consult CITYLINE/SKYLINE accessory table on page 78.

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





ref.70706 1 PUSH.



ref.70701 1 PUSH.

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



ref.7299



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 S77303 VDS DIGITAL AUDIO CITY PANEL S7

7310 DIRECTORY CITY PANEL S7

8857 FLUSH BOX S7

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

NOTE: For other CITYLINE push button panels see SPECIAL CITYLINE PANELS on page 80.



ref.7448



ref.7444

ref.7442

£ _____



PROXIMITY 400 USERS ref.7440

ref.23361

ref.4515







ref.5291

ref.5259 ref.5231

INFORMATIVE MODULES AND COMPLEMENTS

7448 ONE-TO-ONE MODULE V

Device that informs on door entry operating using 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

7440 SKYLINE PROXIMITY READER V

It allows to opening 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.

23361 EM FERMAX PROXIMITY CARD

2336 EM PROXIMITY CARD WITH MAGNETIC BAND

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.

ref.8259

225x495

5259 RF KEYSINGLE-MINI EMITTER

5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH

ref.9199

211x519

CITYLINE/SKYLINE ACCESSORIES

ref.7069

130x436,5x33

ref.8982

115x420,5x45

S9



ref.8483

265x440,5

ref.8480

135x440,5

ref.8386

ref.8474

355x500

^{*} 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 S7

7482 URBANLINE VIDEO PANEL S7

8857 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 Programming. 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.

1. OUTDOOR PANEL



MARINE PANEL

MARINE is the FERMAX vandal-proof door entry panel made in AISI 316L stainless steel (2,5mm-thick). IP54 IKO9.

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.

A synthesized message - "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.

SERIES ST1 Panel: 150x180 Flush box(ref.4641): 130x160x55



ref.54331

1 Push



SURFACE BOX ref.4645 (with hood) 154x184x96

HOOD

ref.4703

ref.4701

ref.54336

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.
- 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 (with hood) ref.4647 HOOD





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 make the Marine panel required, with optimal delivery time for the customised panel.



RAL 9005



3172 SPECIAL MARINE 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.
- · Push buttons without card slot and free layout.
- · Include backlight.

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.

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

TECHNOLOGY: V

2. ACCESS CONTROL READERS

Access control readers are considered by the Central Unit as just another access. Every central Unit (ref.2405) allows for the management of up to 1.020 users of access control. The panel is supplied with the corresponding flush box. No switcher is required.



ref.6992







ref.6994

CITYLINE

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

CITYLINE PROXIMITY READER 6992

CITYLINE WIEGAND MIFARE/EM PROXIMITY READER 6958

6994 MDS CITY KEYPAD











EM ref.5472

ref.4696







ref.23361

ref.4515

ref.4420









ref 5293



ref.5296





ref.5266

ref.5259

ref 5231





ref.5482

MARINE

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

5472 MARINE PROXIMITY READER

4696 AC+ MARINE KEYPAD

PROXIMITY IDENTIFIERS

23361 **EM FERMAX PROXIMITY CARD**

EM PROXIMITY CARD WITH MAGNETIC BAND 2336

4515 PROXIMITY KEYRING

52750 PROXIMITY CARD MIFARE FERMAX

52740 PROXIMITY KEYRING FERMAX MIFARE

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

4420 DOOR CONTROLLER

RESISTANT

5296 RESISTANT PROXIMITY READER 5293 RESISTANT KEYPAD W/PROXIMITY

RADIOFREQUENCY

5266 RF-WIEGAND 12VDC RECEIVER 5259 RF KEYSINGLE-MINI EMITTER

5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH 5232 RF KEYSINGLE-PLUS EMITTER 4 PUSH

FINGERPRINT WITH PROXIMITY

6935 CITYLINE FINGERPRINT READER

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

5482 MARINE FINGERPRINT READER

3. GUARD UNIT

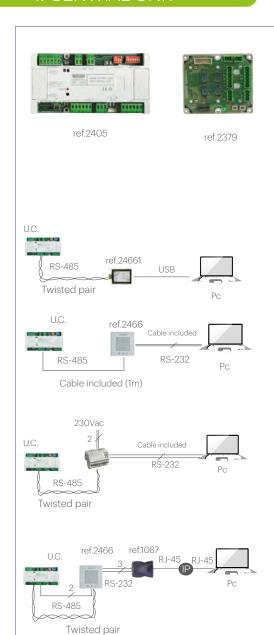


2537 MDS DIGITAL GUARD UNIT

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, 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



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.

TECHNOLOGY: MDS

5. POWER SUPPLY



ref.4813



ref.4830



ref.4812



ref.2060

COMMON ELEMENTS FOR ALL MDS SYSTEMS

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

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

4830 POWER SUPPLY 18Vdc/3,5 A DIN6

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

4812 POWER SUPPLY DIN6 100-240VAC/18VDC-1,5A

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

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

2060 BATTERY ADAPTOR 12VDC (DIN6) **EMERGENCY MODULE 18Vdc** 1021

6. DOOR LOCK RELEASE



540

540 SERIES Consumption		
N,A	12Vac	560mA
N-412	12Vdc	250mA

990 SERIES Consumption

12Vac

12Vdc



990

250mA

250mA

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

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

For other models see Lock Release section or current Lock Releases

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

30701 LOCK RELEASE 540N-412-S MAX

Normal operation and short shield. 12Vdc.

AC ELECTRIC LOCK COMMANDER 3264

Maximum current: 1 Ampere.

catalogue.

10-24 Vac/dc.

67501

7. ACCESSORIES



ref.2339



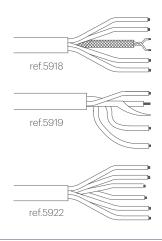
ref.2424



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 DECODER2425 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 DISTRIBUTOR2419 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 2 +1 twisted pair shielded of 2 x 0,5 mm 2 .

5919 VIDEO BUS CABLE (100M) 3 wires of 1mm²+1 coaxial of 75 Ohms.

5922 DECODER-TELEPHONE CONNECTION CABLE (1M)

6 wires of 0,5mm².

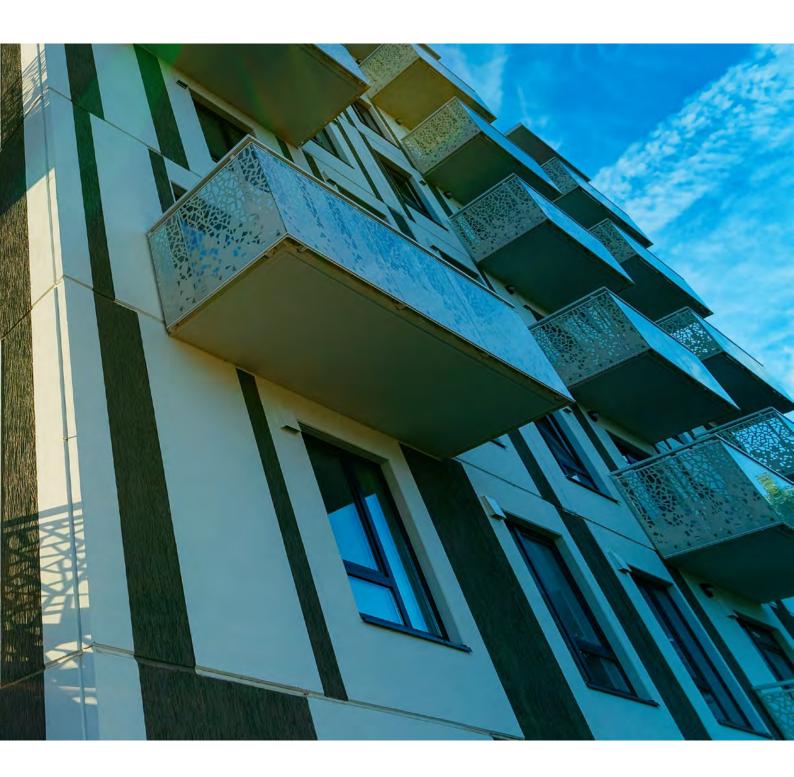
8. MONITORS AND TELEPHONES

4+N telephones. Check out the Analogue section page 120.

VDS monitors and telephones. Check out the VDS section page 86.



FERMAX



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:

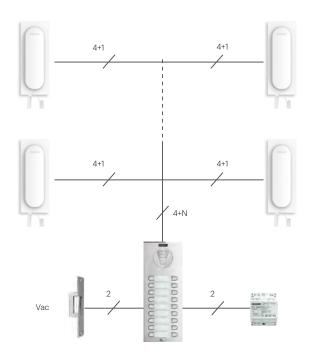
- 1) Possibility of selecting the type of call (electronic or buzzer).
- 2) Possibility of selecting type of installation: FERMAX (parted grounds) or Universal (common ground).
- 3) Voice synthesiser with the message 'The door is open' up to 32 languages.
- 4) Connector for outdoor panels in MDS system.
- 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



TECHNOLOGY: 4+N

1. OUTDOOR PANEL



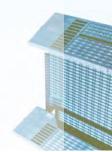
SKYLINE PANEL

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

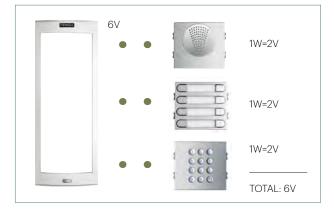
SKYLINE manufacturing materials include anodised aluminium profile, chromed zamak push buttons and reinforcements, polycarbonate transparent elements and stainless steel inner grids.

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 CREATIVE FREEDOM** to create any imaginable combination.





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

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).





ref.70701 ref.70001 1 Push. 2 Push.

SERIES 3 // Panel: 130x175 Flush box (ref.8853): 115x162x45

ref.70721 ref.70021 3 Push. 6 Push.









 ref.70221
 ref.70231

 14 Push.
 16 Push.

SERIES 7 // Panel: 130x341Flush box (ref.8857): 115x328x45





1. OUTDOOR PANEL



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 98 to find out the differences compared to the Basic or Kit amplifier).



Flush box (ref.8851): 115x114x45



ref.8500 ref.8501 1 Push. 2 Push.

SERIES 3 // Panel: 130x175

Flush box (ref.8853): 115x162x45



ref.8560 ref.8562 3 Push. 6 Push.

SERIES 4 // Panel: 130x199

Flush box (ref.8854): 115x185x45



ref.8593 ref 8591 4 Puls. 8 Puls.

SERIES 5 // Panel: 130x246

Flush box. (ref.8855): 115x233x45



ref.8620 ref.8621 10 Push. 12 Push.

SERIES 6 // Panel: 130x294

Flush box (ref.8856): 115x280x45



ref.8660 ref.8661 14 Push. 16 Push.

SERIES 7 // Panel: 130x341

Flush box (ref.8857): 115x328x45



18 Push. 20 Push.

SERIES 8 // Panel: 130x389

Flush box (ref.8858): 115x375x45



ref.8740 22 Push.

ref.8741 24 Push.

TECHNOLOGY: 4+N

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

2. TELEPHONES



Made of high-impact ABS with a texturised finish for easy cleaning and ultraviolet protection. They have several attachment points for wall mounting, as well as a coiled cord with telephone plug connectors. The LOFT and VEO model incorporates a magnet located in the handset that facilitates to hang it up correctly.

3431 UNIVERSAL VEO TELEPHONE

3426 VEO 4+N TELEPHONE

Dimensions: 82x214x43mm

3394 EXTRA LOFT 4+N TELEPHONE

Dimensions: 85x220x40mm

80447 BASIC CITYMAX 4+N TELEPHONE

8084 PALACE CITYMAX TELEPHONE (PEARL)

Dimensions: 80x210x60mm



MODELS	FUNCTION
VEO 4+N TELEPHONE BASIC CITYMAX TELEPHONE VEO UNIVERSAL TELEPHONE	Call to guard and door opener button.
EXTRA LOFT TELEPHONE	Call volume control (3 positions: OFF, medium, high) 2 additional functions F1 and F2 (sending of negative to open the relay, timer, etc).
PALACE CITYMAX TELEPHONE	Intercommunication: internal communication between indoor terminals in the same home (max. up to 12 indoor terminals). It requires 1 power supply 18Vdc (ref.4830 or ref.4812) per home and a multiway switcher (ref.9017)

FINISH

VEO/LOFT / CITYMAX BASIC / UNIVERSAL TELEPHONE	White
PALACE	Pearl



TELEPHONE ACCESSORIES

FERMAX desktop supports are made of high quality stainless steel (AISI 316L).

3749 VEO/LOFT 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 LOOP3443 VEO HANDSET WITH INDUCTIVE LOOP

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 $\mathbf{4+N}$ 4+N WIRES

4. POWER SUPPLY



ref.4802



ref.4800



FOR AUDIO INSTALLATION

4802 POWER SUPPLY DIN4 230VAC/12VAC-1A 4800 POWER SUPPLY DIN4 230VAC/12VAC- 1,5A

5. DOOR LOCK RELEASES



990 Series	consumptio	n
N,A	12Vac 12Vdc	250mA 250mA

67501 LOCK RELEASE 990N-P22 MAX

Normal operation and short narrow shield P22 type. 12Vac/dc

30711 LOCK RELEASE 540N-S MAX

Normal operation and small shield. 12Vac.

1821 LOCK RELEASE 540AB-S MAX

Sliding automatic operation and small shield. 12Vac.

67524 UNIV. LOCK RELEASE 990A-S MAX

Normal operation 12-24Vac/dc.

NOTE: MAX: It includes adjustable latch.

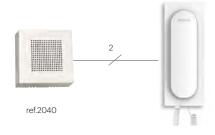


ref.4545



TELEPHONE INTERFACE 4545

It is installed at home and connected to the telephone network. It allows communication with the outdoor panel (only audio) as well as opening the door remotely from any conventional or wireless telephone at home. It allows to forward the call to one or two external land lines or mobile telephones. For each telephone interface, a power supply unit ref. 4800 is required. It is not recommended for telephone installations with fiber optics.



CALL ACCESSORIES

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.



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



ref.8053



ref.2340



ref.2013



ADDITIONAL FUNCTIONS

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

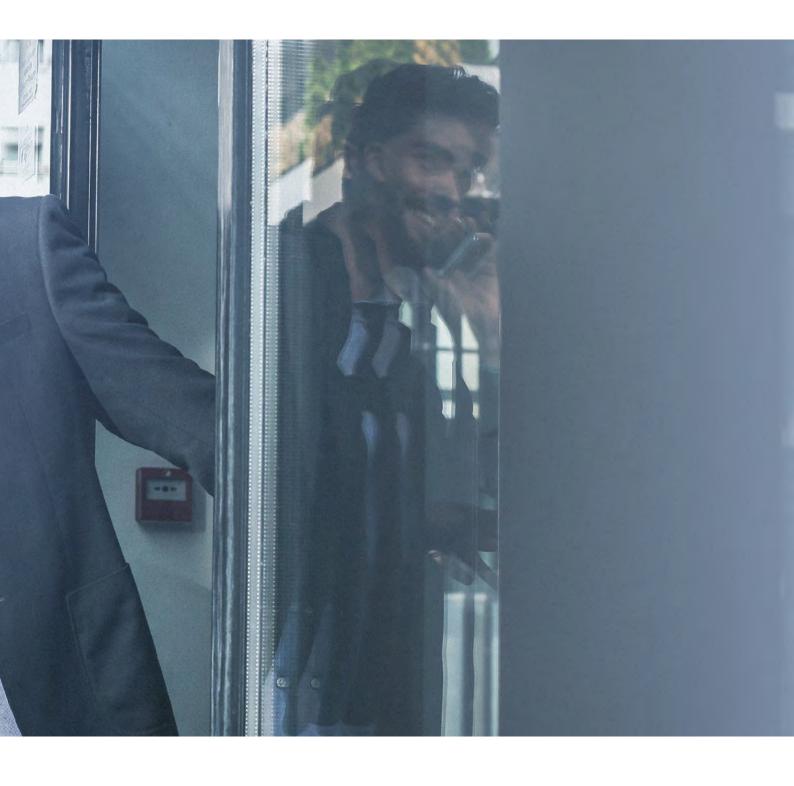
29001 TIMER

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.







Solutions for accesses
Flush mounted or Surface

LOCK RELEASE

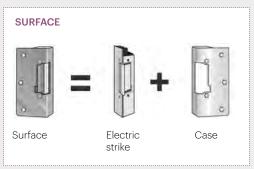
FLUSH MOUNTED. SURFACE

CHARACTERISTICS

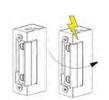
An electric **DOOR LOCK RELEASE** basically
consists of an electrical
strike and a shield or
case, depending on the
installation system (flush

mounted or surface).





OPERATION MODES

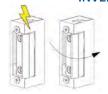


NORMAL OPERATION N

Allows door opening while the lock is powered.

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

INVERTED OPERATION N-500



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

N-512 12 Vdc activationN-524 24 Vdc activation

AUTOMATIC OPERATION A

Ab (Sliding automatic) and Aa (Invisible automatic)

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



A Automatic operation.

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



the MAX latch setting.

Ab 12 Vac activation



Ab-412 12 Vdc activation

Aa Invisible automatic operation.

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

Aa 12 Vac activation Aa-412 12 Vdc activation

ADDITIONAL OPERATION





- Unlocking lever - D

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

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.



MAX



- 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.



1. **FLUSH MOUNTED** DOOR LOCK RELEASE

NORMAL OPERATION N



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

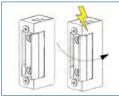
990

990TOP



540 Seri	es Consumption
N,A	560mA
N-412	250mA
N-512	200mA
A-424	180mA
MAX	+3mm

300 Series	Consumption
N-412	180mA
MAX	+4mm



Allows door opening while the lock is powered.

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

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	FLECTRIC 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 MAX1799 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)

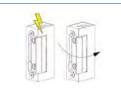
1782 ELECTRIC STRIKE 540ND-412 MAX

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



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

N-512 12 Vdc activationN-524 24 Vdc activation

UNIVERSAL 12Vdc

6780 ELECTRIC STRIKE 990N-512 MAX67800 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.

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



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 12 Vac activation Aa-412 12 Vdc activation



990 990TOP

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



540 Series Consumption

N,A 560mA

N-412 250mA

N-512 200mA

A-424 180mA

MAX +3mm

UNIVERSAL 12-24 Vac/dc

UNIVERSAL 12-24 Vac/ac		
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)

STANDARD 12Vdc

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

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

2. **SURFACE** DOOR LOCK RELEASE

NORMAL OPERATION N



2003 SERIES



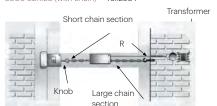


ref.2923-2917

ref 2940

2000 Series consumption		
Ν	12Vac	980mA

8000 SERIES (with chain) ref.2984



8000 S) Series con	eries consumption	
ſ	Ν	12Vac	980mA	

WITHOUT DEADBOLT ENTRY 12 Vac

2923 LOCK RELEASE N-2001 CHROME

LOCK RELEASE N-2003 ANODIZED ALUM. 2940

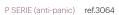
2984 LOCK RELEASE 8000N WITH CHAIN

3064 LOCK RELEASE PN (PANIC BAR)

2879 ELECT. RIM LOCK 962-DOU. KEY+PUSH BUTTON

WITH DEADBOLT ENTRY 12 Vac

3004 LOCK RELEASE 6000N GREY





P Se	eries consu	mption
Ν	12Vac	980mA

962 SERIES ref.2879

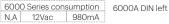


962 Series consumption		
N	12Vac	850mA
N	12Vdc	1.7A
15W / 18W		

AUTOMATIC OPERATION A







WITH DEADBOLT ENTRY 12 Vac

3005 LOCK RELEASE 6000A GREY 3006 LOCK RELEASE 6000AD GREY

2001-2006 SERIES



WITHOUT DEADBOLT ENTRY 12 Vac

2917 LOCK RELEASE A-2001 CHROME

ACCESSORIES

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

LOCK RELEASE

FLUSH MOUNTED. SURFACE

3. **SPECIAL** DOOR LOCK RELEASE

INVERTED OPERATION N-500



3050 FLUSH. ELECTROMAGNETIC 300KG

Electromagnetic lock release, flush mounted, inverted operation 12/24Vdc LED+CTC.

3052 SURF. ELECTROMAGNETIC 300KG

Electromagnetic lock release, surface mounted, inverted operation 12/24Vdc LED+CTC.

3078 L-3 BRACKET (for ref.3052)

3079 BRACKET DOUBLE Z (for ref.3052)

2837 U BRACKET (for ref.3052)

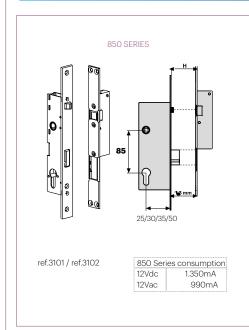
3098 GLASS LOCK RELEASE CIIN-512-SX 12V

For single leaf glass doors up to 12mm.

1786 ELECTRIC DROPBOLT 700N-512/524

Electric Dropbolt locks are commonly used locks which are compatible with virtually any access control system. Inverter operation.

AUTOMATIC OPERATION A. 12VAC



3101 SEG.850/50 A AUTOMATIC LOCK3102 SEG.850/25 A AUTOMATIC LOCK

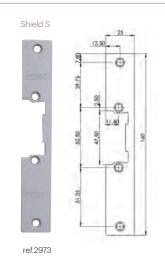
When the door is closed, the bolt is passed automatically with no need for keys.

2998 GLASS CAD CHROME LOCK RELEASE

For double leaf glass doors up to 12mm. Surface lock release.



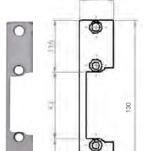
ACCESSORIES



FLUSH MOUNTED LOCK RELEASE

S-TYPE GREY SHORT SHIELD 2973 2893 M-TYPE GREY LARGE SHIELD 2894 P22-TYPE SHORT SHIELD 2892 L22-TYPE GREY SHIELD

G-TYPE GREY LARGE SHIELD (36mm) 2975 GE-TYPE GREY LARGE SHIELD (12mm) 2985



Shield P22

FOR ALL TYPE OF LOCK RELEASE

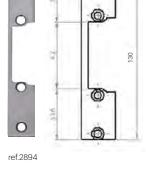
2913 2C DOUBLE CONTACT (WHITE)

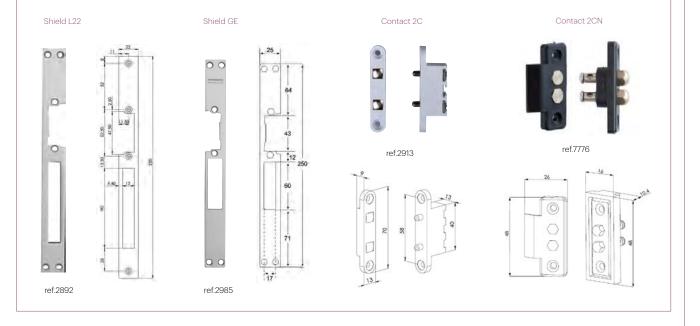
2CN DOUBLE DOOR CONTACT (BLACK) 7776

3C TRIPLE DOOR CONTACT 2922 X1 FLEXIBLE CONDUIT (30cm) 3083

3084 X2 RIGID VANDAL PROOF CONDUIT (26cm) POWER SUPPLY DIN4 230VAC/12VAC-1,5A 4800 4802 POWER SUPPLY DIN4 230VAC 12VAC/1A 4813 POWER SUPPLY DIN6 100-240VAC/12VDC-2A

1076 MC740 G2 MAGNETIC CONTACT











Solutions for accesses Stand-alone and Centralised

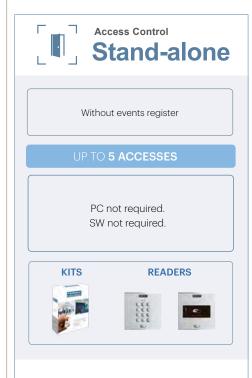
ACCESS CONTROL

STAND-ALONE AND CENTRALISED

Designing an access control project has multiple solutions.

Fermax systems are very versatile and capable of solving the same project. To choose the optimal system and the most efficient we **recommend** the following selection guide.

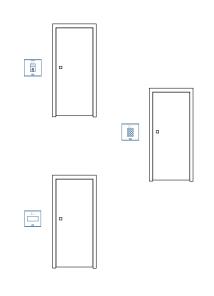
ACCESS CONTROL PROJECTS



The simplest and practical way to manage a single door.

A device that can be installed both in the interior and exterior.

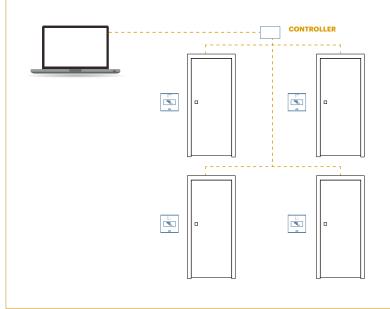
It can be integrated in door entry panels to enable the neighbours to access it without keys. The same identifier can be registered in several readers.





A centralised access control system is characterised by the fact that managing both system and users is carried out from a central device or remotely (IP) through a software program (in Windows), for the programming of the installation.

These systems feature advanced functions such as anti-passback, time control, capacity limitations, activation of devices from readers, event log in real time or offline, automation, etc.





READERS



KEYPAD. MEMOKEY











PROXIMITY READER. PRIVATE











FINGERPRINT. INKEY













COMBINED. DUAL FUNCTION





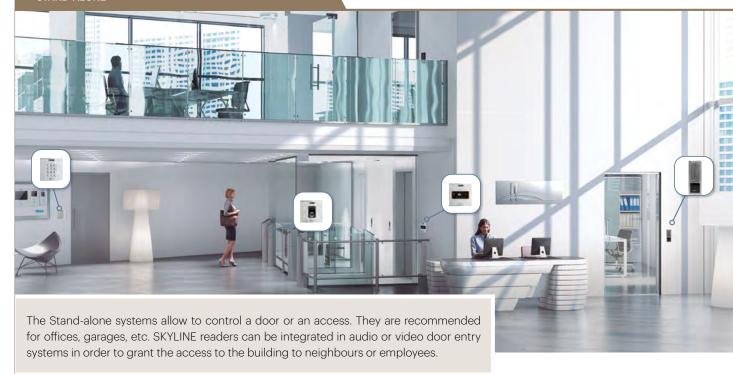


IDENTIFIERS



ACCESS CONTROL

STAND-ALONE



1. **KEYPAD** (PIN)

MEMOKEY KEYPAD

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







Reader dimensions S1: 130x128 Flush box dim. S1:115x114x45 Reader dimensions ST1: 150X180 Flush box dim. ST1: 130x160x55

4906 CITYLINE MEMOKEY KIT

It includes reader (ref.6991) and power supply (ref.4802). Flush mounted installation.

6991 CITYLINE MEMOKEY

Outdoor/Indoor. Backlighted stand-alone keypad made of zamak with signal LEDs. It includes flush box (ref.8948). Surface box is optional (ref.7061).

7438 SKYLINE MEMOKEY W

Accessory for SKYLINE panels.

4699 MARINE MEMOKEY

Outdoor. 2.5mm stainless steel with backlighted keyboard and signal LEDs.

It includes flush box ST1 (ref.4641).



RESISTANT MEMOKEY

⇒> EXTERNAL CONTROLLER

- Keypad with reduced dimensions for tight profile frames. IP66 IK09.
- Integrated EM (125KHz), HID (125KHz) and MIFARE (13,56MHz) proximity reader.
- Operation modes: code, card, card+code and multi-card+code.
- Allows up to 600 codes and 1.000 with external controller (ref. 5276).
- Programming from keyboard with master code and MASTER ADD and MASTER DELETE cards.
- Audio and visual notification.
- Power supply 12Vac/dc.





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 FERMAX52740 PROXIMITY KEYRING FERMAX MIFARE

23361 EM FERMAX PROXIMITY CARD

2336 EM PROXIMITY CARD WITH MAGNETIC BAND

4515 PROXIMITY KEYRING









ref.52740

ref.23361 Customisable card

ref.4515

ACCESS CONTROL

SYSTEMS

2. **PROXIMITY** (CARD)

PRIVATE READER

- Proximity reader with integrated controller.
- Allows up to 400 cards EM 125KHz.
- · Activates a device.
- Audio and visual notification.
- Open/wedged door alarm.
- Entrance sensor.

- Power supply 12Vac/dc.
- · Programming with master card.
- Allows you to configure on WG 26 to connect to a external driver to increase the number of users. Up to 1000 (ref. 5276).







Reader dimensions S1: 130x128 Flush box dimensions S1:115x114x45





ref.4802

ref.6992

Reader dimensions ST1: 150x180

230Vac

ref.67501

CITYLINE PRIVATE KIT 4905

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

CITYLINE PROXIMITY READER 6992

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

7440 SKYLINE PROXIMITY READER V

Accessory for SKYLINE and CITYLINE panels.

MARINE PROXIMITY READER 5472

Outdoor. Stainless steel reader. Flush box included ST1 (ref.4641).

ACCESSORIES

2306 PRIVATE PROGRAMMING KEYPAD

24661 USB ADAPTOR TO RS485

IDENTIFIERS

23361

EM FERMAX PROXIMITY CARD

2336

EM PROXIMITY CARD WITH MAGNETIC BAND

ref.5287

4515

PROXIMITY KEYRING





ref.23361 Customisable card

ref.4515



MIFARE CLASSIC PROXIMITY READER

- Reader with external controller WG.
- Allows different types of cards: MIFARE (13.56MHz) EM (125KHz) and HID ISOProxII (125KHz).
- Activates 1 device.
- Allows up to 1000 cards/keyrings.
- Audio and visual notification.

- Available in RESISTANT (ref.5296) and in SKYLINE (ref. 7461), CITYLINE (ref. 6958).
- Power supply 12 Vdc.
- Programming with MASTER cards and through IR keypad included in controller ref.5276.







ref.5296 ref.6958



5237 RESISTANT PROXIMITY KIT

Surface installation. It includes reader (ref.5296), controller (ref.5276) with IR infrared keypad, power supply (ref.4813), 3 cards (ref.52750) and 2 MIFARE keyrings (ref.52740). Reader dim.: 48x103x20mm

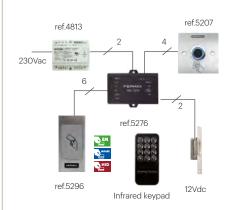
5296 RESISTANT PROXIMITY READER

7461 SKYLINE WG MIFARE/EM PROXIMITY READER V 6958 CITYLINE WG MIFARE/EM PROXIMITY READER

5276 MINI WG STAND-ALONE CONTROLLER 1 DOOR

Surface installation. Power supply 12Vdc (ref.4813) recommended. Controller dim.: 65x54x9mm

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



IDENTIFIERS

52750 PROXIMITY CARD MIFARE FERMAX PROXIMITY KEYRING FERMAX MIFARE



SYSTEMS

3. FINGERPRINT (BIOMETRIC)

FINGERPRINT READER

→ INTEGRATED CONTROLLER

- 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.





6935 CITYLINE FINGERPRINT READER

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

6937 CITY KEYPAD/FINGERPRINT

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

6936 SKYLINE FINGERPRINT READER W

Accessory for SKYLINE and CITYLINE panels.

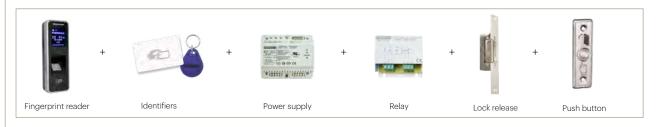
5482 MARINE FINGERPRINT READER

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



INKEY MINI IP FINGERPRINT READER

- Indoor or outdoor surface installation.
- IP 65 protection.
- Integrated Mifare proximity reader.
- 1,8" display navigable by pressing in the optical reader.
- 12Vdc. power supply (It requires ref.4813).
- Stand-alone operation: Management of **5.000 fingerprints**, memory of 200.000 events, allows the cloning of fingerprints through a USB flash drive, up to 150 network readers, adding a relay (ref.2013) to connect the electric door lock.
- (free fingerprint management software available at www.fermax.com INKEY MINI).







INKEY MINI IP FINGERPRINT READER 5233

Outdoor/Indoor. Surface mount.

Size: 48x138x38.

5234 USB INKEY MINI FINGERPRINT READER

Indoor. Desktop reader.

ACCESSORIES

ref.23361 Customisable

ref.52750

HITAEE



ref.52740

COMMON ACCESSORIES

4813 POWER SUPPLY DIN6 100-240VAC/12VDC-2A 67501 UNIV. LOCK RELEASE 990N-P22 MAX 10-24Vac/dc 67524 UNIV. LOCK RELEASE 990A-S MAXC/DC 5287 FLUSH MOUNTED PUSH BUTTON (2 wires) 5288 SURFACE MOUNTED PUSH BUTTON (2 wires) 5207 CONTACTLESS PUSH BUTTON FLUSH MOUNTED (4 wires, 12 Vdc) 5208 CONTACTLESS PUSH BUTTON SURFACE BOX 1076 MC740 G2 MAGNETIC CONTACT

ACCESSORIES FOR REF. 6935, 6936, 6937 AND 5482

4802 POWER SUPPLY DIN4 230VAC 12VAC/1A

23361 EM FERMAX PROXIMITY CARD

PROXIMITY KEYRING 4515

24661 USB ADAPTOR TO RS485

Necessary for Inkey readers with PC connection. 1-24661 is required for every 15 network fingerprint readers.

INKEY MINI ACCESSORIES

52750 PROXIMITY CARD MIFARE FERMAX 52740 PROXIMITY KEYRING FERMAX MIFARE 2013 ADDITIONAL FUNCTIONS RELAY

1498 12Vdc PoE SPLITTER



4. RADIOFREQUENCY (868MHz)

RF RECEIVER

- RF external controller.
- · Activates 1 or 2 devices individually or simultaneusly. Basic MINI only 1 device.
- Allows up to 500 RF remote control.
- RF distance: 100m.
- · Manual or radio programming.









ref.5259

ref.5231







ref4802

ref.5249



ref.4813

RF GARAGE AND SHOPS KIT

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

5250 RF BASIC-2B RECEIVER

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

5291 RF BASIC MINI RECEIVER

It can be integrated in audio and video door entry panels. Power supply 12/24Vac/dc. 1 monostable relay output. Dimensions: 60x44x18.

5258 USER PLUS PROGRAMMING KIT

It allows the management of the identifiers (emitters) from PC and reserve the entire memory of the receivers, blocking manual programming if desired.

5264 HF ANTENNA HANDS-FREE 1.5m

Surface mounted. 12/24Vac/dc. Activates the FREE ID identifier

IDENTIFIERS

5259	RF KEYSINGLE-MINI REMOTE CONTROL
5231	RF KEYSINGLE-PLUS REMOTE CONTROL 2 BUTTONS
5232	RF KEYSINGLE-PLUS REMOTE CONTROL 4 BUTTONS
5261	RF KEYTRI PLUS2 REMOTE CONTROL
5273	HF IDENTIFIER HANDS-FREE
5265	HF WRISTBAND HANDS-FREE

ACCESSORIES

4802	POWER SUPPLY DIN4 230Vac 12Vac/1A
4800	POWER SUPPLY DIN4 230Vac/12Vac-1,5A
4813	POWER SUPPLY DIN4 100-240Vac 12Vdc/2A
67501	UNIV. LOCK RELEASE 990N-P22 MAX 10-24ac/do
67521	LOCK RELEASE 990A-P22 12-24Vac/dc

ACCESS CONTROL







AC-MAX is a centralised access control system that uses advanced functions while also being simple to integrate. It is perfect for medium-sized projects.

The system allows you to comprehensively manage multiple access points distributed across various sites.

The system connects the different readers with IP controllers, using an intuitive software that allows to manage fingerprints.

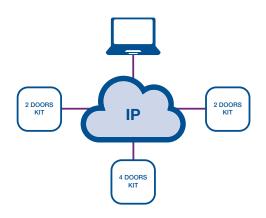
1. **CENTRALISED** AC-MAX

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.

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.

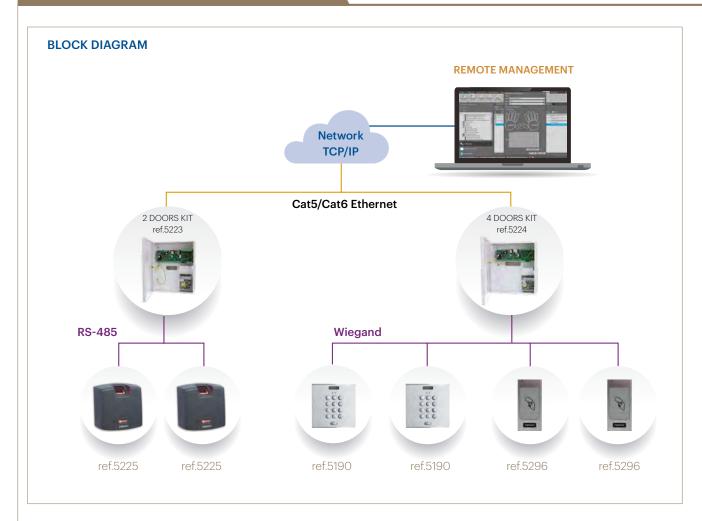


Dimensions: (width) x (height) x (depth) mm.

ACCESS CONTROL







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	Online: unlimited Offline: 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

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

 $^{^{\}star}$ 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:

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.



Configuration wizard for the installer (ST version)





Fingerprint enrolment integrated on the software



Site map and online management (ST version)

*New product: Check availability

SOFTWARE FEATURES	LT 2.0	ST 2.0
CAPACITY		
Licenses required	NO	NO
No. of doors	no limit	no limit
No. of users	no limit	no limit
No. of central units	no limit	no limit
No. of relays	no limit	no limit
No. of sensors	no limit	no limit
No. of events	8.000.000	8.000.000
BASIC FUNCTIONS		
Configuration Wizard	NO	YES
Real time event monitoring	YES	YES
Reports	YES	YES
Built int finger print enrolment	YES	YES
Site Map	NO	YES
Software remote door opening	YES	YES
Local Antipassback	YES	YES
Different operator profiles	YES	YES
Access Zones	YES	YES
Occupancy limit	YES	YES
Occupancy count	YES	YES
List of persons in a zone	YES	YES
Alarm zones	YES	YES
Automations	YES	YES
Credential expiry date	YES	YES
Different credentials per user	YES	YES

SOFTWARE FEATURES	LT 2.0	ST 2.0
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

ACCESS CONTROL

CENTRALISED



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 an corporate server where the data base will be protected and secured providing a high reliability on 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 on the installation in 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:

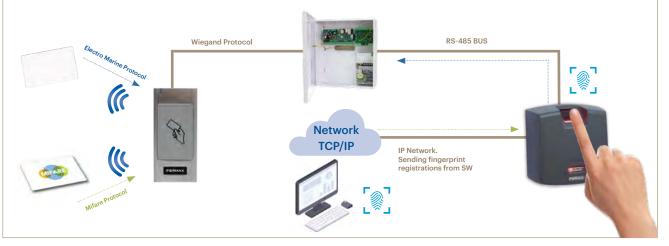
PROTOCOLS	Freq.	Segurity	Functionality
ELECTRO MARINE	125 KHz	*	*
HID ISO Prox II	125 KHz	*	*
MIFARE Classic	13,56 MHz	**	**
MIFARE Desfire	13,56 MHz	***	***

FINGER PRINT ENROLMENT

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





ref.5223 ref.5224

5223 2 DOORS AC-MAX CONTROLLER KIT

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

5224 4 DOORS AC-MAX CONTROLLER KIT

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

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















ref.5296







ref.5191



ref.5192



ref.5293

ELECTRO MARINE 125 KHz

6992 CITYLINE PROXIMITY READER
7440 SKYLINE PROXIMITY READER V
5472 MARINE PROXIMITY READER
5226 ADDITIONAL ADAPTER AC-MAX

Cityline, Skyline and Marine EM require an aditional adaptor (ref.5226) to connect it to AC-MAX controllers

MIFARE CLASSIC 13.56 MHz

6958 CITYLINE WG MIFARE/EM PROXIMITY READER7461 SKYLINE WG MIFARE/EM PROXIMITY READER V

5296 RESISTANT PROXIMITY READER

(Also can read EM 125 KHx and HID ISOPROX II)

KEYPADS

Includes an adapter circuit for AC-MAX (Ref.5226)

5190 WIEGAND CITYLINE KEYPAD
5191 WIEGAND SKYLINE KEYPAD
5192 WIEGAND MARINE KEYPAD
5293 RESISTANT KEYPAD W/PROXIMITY

(Also can read EM 125 KHx and HID ISOPROX II)

NOTE: Max wiring distance to the controller:

- Readers ref.5293,5296,6958,7461 : 100m
- Readers ref.6992,7440,5472,5190,5191,5192: **10m**

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

ACCESS CONTROL

CENTRALISED



FINGERPRINT READER



5225 FINGER PRINT READER FPAC-MAX

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

RF RECEIVER



ref.5266

5266 RF-WIEGAND RECEIVER 12 Vdc

RF receiver wih a max reading range up to 100m. Can be interfaced with Wiegand 26 (4 wires from each receiver) to the controller. Dimensions 77x180x30mm.

5264 HF ANTENNA HANDS-FREE 1.5m

Surface installation. 12Vac/dc. Activates the handsfree identifier.

IDENTIFIERS



ref 23361/2336



ref.52750





ref 4515



ref.52740



ref.5259



MIFARE CLASSIC 13,56 MHz

MIFARE PROXIMITY KEYRING 52740



52750 MIFARE PROXIMITY CARD



ELECTRO MARINE 125 KHz

23361 **EM PROXIMITY CARD**

2336 EM PROXIMITY CARD WITH MAGNETIC BAND

EM

4515 **EM PROXIMITY KEYRING**

RF 868 MHz CONTROLLERS

5265

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 RF KEYTRI PLUS2 REMOTE CONTROL 5261 5273 HF IDENTIFIER HANDS-FREE

HF WRISTBAND HANDS-FREE

*Proximity and RF Identifiers are not sequential so ID numbers are not correlative.



ACCESSORIES





ref.5201 72 x 155 x 20 mm



ref.5204

(check availability)

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

8 input / 8 output expander board. It alloows to activate up to 8 relay outputs to automate functions or simoultaneous 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).

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

USB desktop reader that allows the enrolement 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.5201 72 x 155 x 20 mm



ref.5209

5222 LIFT CONTROL 8 FLOORS 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

TECHNICAL INFORMATION TABLES AND DIAGRAMS

WAY VIDEO KITS FEATURES









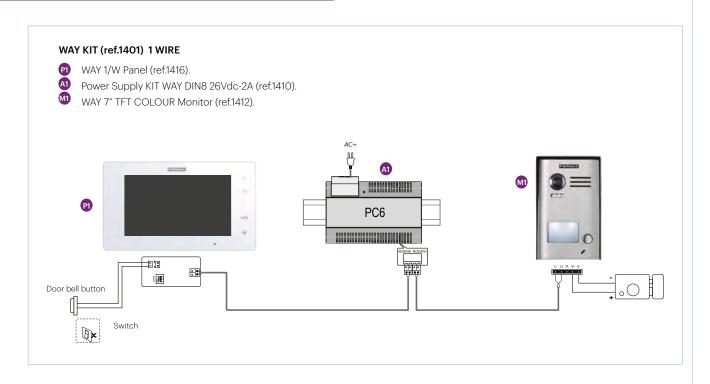


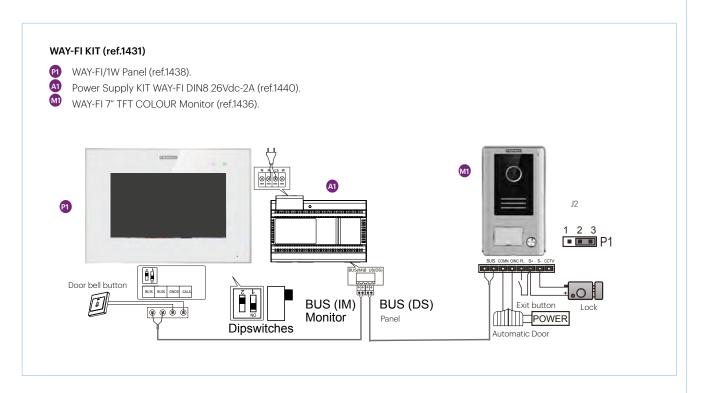
2 WIRES WAY VIDEO KITS	WAY-FI KIT 1431	WAY KIT 1401/1402	KIT WAY SLIM 1421		
OUTDOOR PANEL					
Finish	Aluminium Zamak				
Mounting		Surface			
Output +12Vdc for lock release		Yes			
Recommended lock release	Normal lock re	elease with unlocking and adjustable 990ND-P22 MAX (ref.67511)	e latch		
Free potential contact		Yes			
Angular camera	(Horizontal=119°, Vertical=89°)	(Horizontal=93°, Ve	ertical=71º)		
Camera resolution (H x V)	300 x 220 (CMOS 900 TVL)	425 x 35	0		
Voice synthesiser ("The door is)		-			
Integrated access control		=			
Compatible with relay for 2nd door opening	Relay integrated in amplifier	Yes (relay re	f.1418)		
Hood included	, , ,	Yes			
IP	44	43			
Dimensions mm (with hood)	164x94x34	95x155x3	39		
Possibility to add 2 nd 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" touc	h	4,3" touch		
Screen resolution (V x H)	1024 x 600 pixels	800 x 480 pi	xels		
Auto-on		Yes			
Capture of images	Yes (100 photos without SD, 1.000 with SD)	Yes (118 photos)	-		
Call history (with date and hour)		Yes			
Intercommunication		Yes			
Call divert to a smartphone	Yes	-			
Operation in WI-FI or 3G/4G mode	Yes	=			
Video recording (SD card not included)	Υє	es	=		
Melodies	16	20)		
Contrast control		Yes			
Volume control and Do not disturb function		Yes			
Doormatic	-				
Door bell	Yes				
Additional functions	-				
Compatibility with telephone interface		-			
Compatibility with surveillance cameras	Yes (1 additional analogue camera in each outdoor panel, total 2)	-			
Dimensions (mm)	222x154x10	225x137x17	137x137x17		

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



WAY VIDEO KITS DIAGRAM









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

iPhone

Android

Visit our technical Youtube channel to solve your questions about DUOX PLUS products: www.youtube.com/user/TecnicoFermax

DUOX PLUS VIDEO KITS FEATURES















	VEO.	VEO.	VEO:			
DUOV DI LIS VIDEO KITS	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						
Finish	Alum	inium and chromed	l zamak	316L Sta	inless Steel	
Mounting		Flush mounted (Or	otional: surface with its	corresponding box)		
Output +12Vdc for lock release			Yes	-		
Recommended lock release	Normal lo	ck release with unlo	cking and adjustable lat	tch 990ND-P22 MAX	(ref.67511)	
Free potential contact			Yes			
Wide angle camera		(Ho	orizontal=100°, Vertical=	80°)		
Voice synthesiser ("The door is)			Yes			
Integrated access control	<u> </u>		-			
Accessibility icons			-			
IP/IK		IP43 IK07		IP54	1 IKO9	
Panel dimensions (mm)		130x128		150)x180	
Dimensiones caja de empotrar(mm)		115x114x45		130x	160x55	
MONITOR						
Conversation mode	Hands-free		With handset	Hands-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	S	-	`	/es	
Door bell			Yes			
Additional functions			2 (F1, F2)			
Call forwarding to smartphones and tablets	Yes					
Video surveillance cameras	Yes. With Anal	ogue cameras. Ref.	9444 DUOX CAMERA IN	NTERFACE required for	or each camera.	
			per installation and 1 ir			
Dimensions (mm)	185x185x21	125x165x21	200x200x21	125>	(165x21	
Decorative frame	ref.3389	ref.3388	ref.3389	ref.3388 ((120x240) or	
	(210x240)	(120x240)	210x240		9 (210x240)	
		or ref.3389				
		(210x240)				

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













	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	Alum	ninium and chromed zamak		
Mounting	Flus	sh mounted (Optional: surfa	ce with its corresponding b	ox)	
Output +12Vdc for lock release		Ye	es .		
Recommended lock release	Normal lock re	lease with unlocking and ac	ljustable latch 990ND-P22 N	MAX (ref.67511)	
Free potential contact		Ye	es		
Wide angle camera		Yes (Horizontal=10	00°, Vertical=80°)		
Voice synthesiser ("The door is)		Ye	es		
Integrated access control		-	Yes, k	eypad	
Accessibility icons	Ye	es		=	
IP/IK	IP54 IK09		IP43 IK07		
Panel dimensions (mm)	150x240	130x199	130	x246	
Dimensiones caja de empotrar(mm)	130x220x55	115x185x45	115x23	33x45	
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 150 photos)				
Melodies	5				
Contrast control	Yes				
Volume control and		.,			
Do not disturb function		Υe	es 		
Date and hour control		Y€	es		
Doormatic	Yes		=	Yes	
Door bell		Y∈	es		
Additional functions		2 (F1	, F2)		
Call forwarding to smartphones and tablets	Yes				
Video surveillance cameras	Yes (Analogue cameras. Ref. 9444 DUOX CAMERA INTERFACE required for each camera.				
	Up to 2 per block and 1 in general entry)				
Dimensions (mm)	125x165x21			125x165x21	
Decorative frame	ref.3388		3389	ref.3388	
	(120x240)	210:	x240	(120x240) or	
	or ref.3389			ref.3389	
	(210x240)			(210x240)	

TABLES AND DIAGRAMS

DUOX PLUS VIDEO KITS DIAGRAM

DUOX PLUS VIDEO KIT (REF. 94411). INSTALLATION: 2 WIRES

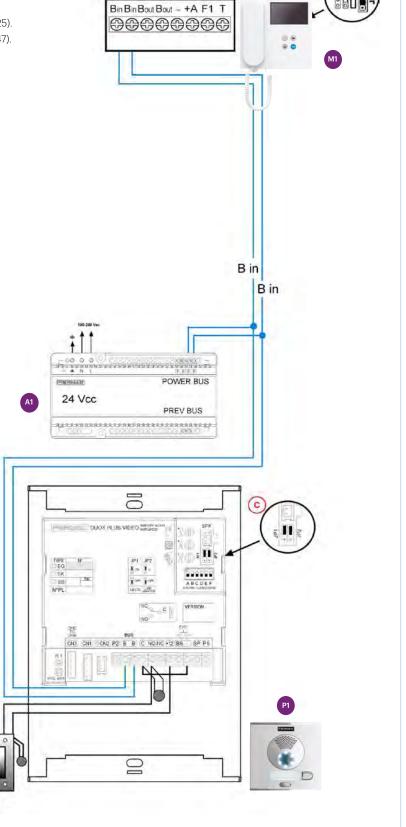
- PI DUOX PLUS CITYLINE panel.
- Lock release 12Vac/dc (ref.67511)*.
- Power supply unit+filter din10 24vdc-2.5a (ref.4825).
- WEO WiFi Monitor (ref.9446) + Connector (ref.9447).

*Not included in the kit.

For more information about DUOX PLUS, the technical books are available at www.fermax.com/quickguide

If you want to follow the pairing process from a video, scan this code >>







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			
Panel	Monoblock panel. Composed by independent modules to facilitating 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	IP54 / 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	3 series			
Fixing screws	Frontal and vandal-proof screws.			
Complements	Single hood for flush box.			

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

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DUOX PLUS MONITORS FEATURES

GENERALS FEATURES	9445	9448	9468	
Technology	DUOX PLUS (F	ull digital. 2 non pol	arised wires)	
Audio/video system		Audio/Colour video		
Mounting	Surface	ce: order connector ref.9447		
Desktop support	ref.9410	ref.	9420	
Handset with magnet to facilitate the hang up	Yes		-	
Hands-free communication	=	Y	es	
Optional communication: press-to-talk	-	Y	'es	
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)	· · ·)x272	800x480	
Colour of the product	400	Matt White	0000400	
Number of push buttons	4		 5	
Kind of push buttons	7	Mechanical		
Number of leds for light indicators	1	1	2	
	1		3	
TERMINAL ADDRESS PROGRAMMING From the indoor terminal		F 00D		
		From OSD menu		
From the outdoor panel or guard unit From the outdoor panel through the door bell (outside the residence)	+	Yes Yes		
FEATURES		162		
Automatic picture capture when visitors call (Photocaller)	Yes (1 photo/call	, up to 150 photos, 3	20x240 pixels)*	
Guard Unit call	<u> </u>	(from the door opener button)		
Auto-on		Yes (up to 3 panels)		
OSD menu		Yes		
Additional function F1	Yes (sending	nding of negative and/or command)		
Additional function F2		'es (only sending of negative)		
Door bell		Yes		
Connection for additional devices (call extension, light/buzzer activator)	Yes (ref. 2040, ref. 2438, ref. 3267)			
Additional terminals on the same address	Yes, max. 2 add. te	rminals (add. p.supp	ly can be required)	
Doormatic (automatic door release for offices, etc.)	-	Yes (configura	able up to 12h)	
CONTROLS				
Date and time		Yes		
Ring tone selection		Yes (5)		
Call volume control	Yes (10 levels by OSD menu)		by OSD menu ng wheel)	
"Do Not Disturb" function	O3D Menu)	Yes (by OSD menu)	ig wrieer)	
Audio volume control	Yes (10 levels by		by OSD menu	
Addio volume control	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			
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]	+	
Humidity		[0%, 90%]		
Connections	Bin, I	Bin, Bout, Bout, -, +A,	F1, T	
Line adaptor included in the monitor	Vool	nosition as default ()EE)	
(jumper JP1 positions: OFF (as default), A, C)	Yes(position as default: OFF)			

^{*} This function can be activated by the user. Deactivated as default.



DUOX PLUS WIFI MONITORS FEATURES

GENERALS FEATURES	9446	9449	9469					
Technology	DUOX PLUS	S (Full digital. 2 non p	olarised wires)					
Audio/video system		Audio/Video colou						
Mounting	Surfa	ce: order connector r						
Desktop support	ref.9410							
Handset with magnet to facilitate the hang up	Yes							
Hands-free communication	-		 es					
Optional communication: press-to-talk	_		es					
Induction loop version	Yes (ref. 9456)	Yes (ref. 9459)	Yes (ref. 9479)					
Screen dimensions	· · · · · · · · · · · · · · · · · · ·	oramic 16:9)	7" (Panoramic 16:9					
Screen resolution (H x V)		0x272	800x480					
Colour of the product	100	Matt White						
Number of push buttons	4		 5					
Kind of push buttons		Mechanical	<u> </u>					
Number of leds for light indicators	2		4					
-			<u> </u>					
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								
Automatic picture capture when the visitor calls (Photocaller)	Yes (1 photo/ca	ll, up to 150 photos, 3	20x240 pixels)*					
Guard unit call	Yes (fr	om the door opener k	outton)					
Auto-on	Yes (with 3 outdoor panels)							
OSD menu	Yes							
Additional function F1	Yes (sending of negative and/or command)							
Additional function F2	Yes (only sending of negative)							
Apartment door bell differentiated from the outdoor panel		Yes						
Connection for additional devices (call extension, light/buzzer activator)	Yes (re	ef. 2040, ref. 2438, ref.	3257)					
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 (configurable up to 12h)						
CONTROLS								
Date and time		Yes						
Ring tone selection	Yes (5)							
Call volume control	Yes (10 levels by Yes (10 levels by OSD menu							
	OSD menu) and sliding wheel)							
"Do Not Disturb" function		Yes (by OSD menu)						
Audio volume control	Yes (10 levels by		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.						
Conversation time		90 s.						
Conversation privacy		Yes						
Voltage	18-24Vdc							
Maximum consumption (W) (paired and connected)	5,6	6.9 (14,4 with the	9,9 (18 with the					
<u> </u>	·	inductive loop on)	inductive loop on					
Standby consumption (W)	1,3		1,5					
Working temperature (°C)		[-5°C, +40°C]						
Humidity		[0%, 90%]						
Connections	Bin	Bin, Bin, Bout, Bout, -, +A, F1, T						
Line adaptor included in the monitor (jumper JP1 positions: OFF (as default), A, C)	Yes (position as default: OFF)							

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

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DUOX PLUS WIFI MONITORS FEATURES

CALL FORWARDING (APP "BLUE" FOR SMARTPHONES & TABLETS)						
Call forwarding to smartphones and tablets	Yes (App Compatible with iOS>=11; Android>=6)					
Connectivity	Wifi (2,4 Ghz) and 3G/4G					
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/tablet: 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, Czech, Polish, Dutch, Norwegian, Greek, Danish, Swedish, Hebrew, Russian, Arabic)					





DUOX PLUS TELEPHONES **FEATURES**

GENERALS FEATURES	3444	3452	3450					
Technology	DUOX PLUS	S (Full digital. 2 non pola	arised 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					
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 (f	from the door opener b	utton)					
Auto-on	Yes (only with No. 0 panel from its own block)							
Additional function F1	-	Yes (F1 button, sending of n	negative 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.	3267)					
Additional terminals on the same address	Yes, max. 2 add.	terminals (add. p.supply	can be required)					
Doormatic (automatic door release for offices, etc.)	- Yes							
CONTROLS								
Ring tones selection		Yes (5)						
Call volume control	Yes (switch)	Yes (by slid	ing wheel)					
"Do Not Disturb" function	Yes (switch)	Yes (by slid	ing 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%]	ı					
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).					

TECHNICAL INFORMATION

TABLES AND DIAGRAMS

PROJECTS MATERIAL LIST. DUOX PLUS WIFI

20 30 40 9 ∞ 9 12 4 16 9 22 24 24 26 28 32 32 34 36 38 40 9 20 26 28 30 34 36 9 ∞ 12 7 16 $\frac{9}{2}$ 22 24 24 32 32 LINE 1 \sim 7 2 0 2 \sim POWER SUPPLY \sim AMPLF. PUSH BUTTON MODULES BLANK MODULES MODULES $^{\circ}$ 4 4 4 \sim _ _ * JOINING CABLE BOLTS 0 FLUSH BOX 88 FLUSH BOX > _ FLUSH BOX 2 0 9 _ 2 7 FLUSH \sim 20 α N 2 N FLUSH BOX 7 FRAME 4V 2 FLUSH 110 FRAME 3V SKYLINE PANEL 88 88 89 89 **S**2 **S**6 **S**6 \$ **S4 S**5 **S**5 **S**6 **S**6 S7 S7 **S**6 98 S7 S7 S7 S7 S7 9 16 18 18 22 22 24 24 26 30 30 12 4 32 32 36 6 4 9 ∞

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 54 of DUOX PLUS section.

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



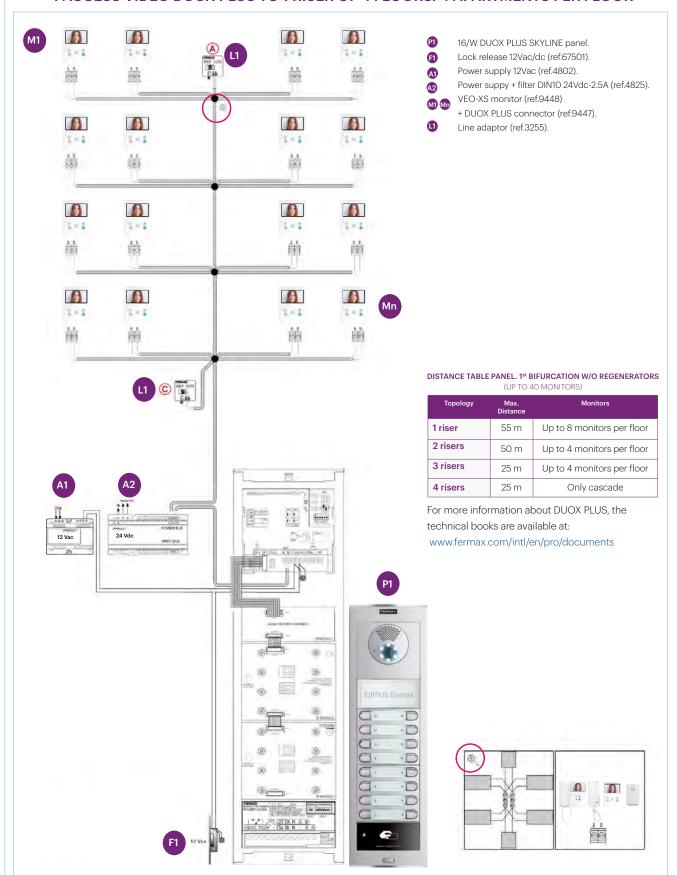
PROJECT MATERIAL LIST DUOX PLUS

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

SKYLINE PANEL	FRAME FLU 3V B	SERIES ref. r	S4 1	S4 1	S5	S5	98	98	S7	87	88	88	89	83	S5	98	98	98	98	S7	S7	S7	S7	Ç
	FLUSH BOX	ref. 8854 7	<u> </u>	-						 								}						
	FRAME FLUSH 4V BOX	ref. r 7334 88			_	_				 					2									
		ref. r 8855 7.			_	_									2		 							
	FRAME FLI 5V B	ref. re 7335 88					<u></u>	<u></u>		 				}		2	2	2	2					
	FLUSH FRA BOX 6	ref. re 8856 73:					<u></u>	<u></u>								2	2	2	2					
	V BC	ref. ref. 7336 8857							-	_										2 2	2 2	2 2	2 2	2 2
	ISH FRAN	f. ref. 57 7337									_	_								5	2	5	2	
	FRAME FLUSH FRAME FLUSH 6V BOX 7V BOX	f. ref. 37 8858								 	-	_		 		ļ 	ļ 	 						
	H FRAME 8V	ref. 3 7338											_	-										
	E FLUSH BOX	ref. 8982								 			_	_							ļ			
E.	H JOINING BOLTS	ref. 8829													_	-	-	_	-	-	-	-	-	-
0	VG CABL	ref. 9 2541								 						-	_	_	_	_	_	_	_	-
	CABLE MODULE	ref. 1 73911	_	_	_	_	_	~	_	_	_	_	_	_	_	-	_	_	-	-	_	_	-	-
Ç		201 ref.7376	_		-		-		-	 	-		_			-		-			-		-	
	PUSH BUTTON MODULES	201 202 204 ref.7376 ref.7372 ref.7371		_	-			_	_			_	_			7	-	-	7			-	-	ļ
ngiga Paga	NO S	204 2 ref.7371				_	_	_	_	7	2	2	2	ო	ო	2	က	ო	က	4	4	4	4	വ
	BLA	V ref.7442														-	-				-	-		
	BLANK MODULES	2V ref.7443																		-				
	POWER SUPPLY + FILTER	ref. 4825	—	_	_	_	—	—			_	_	_		_	_			_	_	_	_	_	_
278	ADAPTOR	ref. 3255	2	2	7	2	2	2	7	2	2	7	7	2	7	2	2	2	2	2	2	2	2	2
) <u>.</u>	VEO MONIT.	ref.9445 + ref.9447	2	4	9	∞	9	12	4	16	92	20	22	24	24	26	28	30	32	32	34	36	88	40
	VEO-XS MON. + CONNECT	ref.9448 + ref.9447	2	4	9	∞	9	12	4	16	92	20	22	24	24	26	28	30	32	32	34	36	38	40

DUOX PLUS VIDEO DIAGRAM

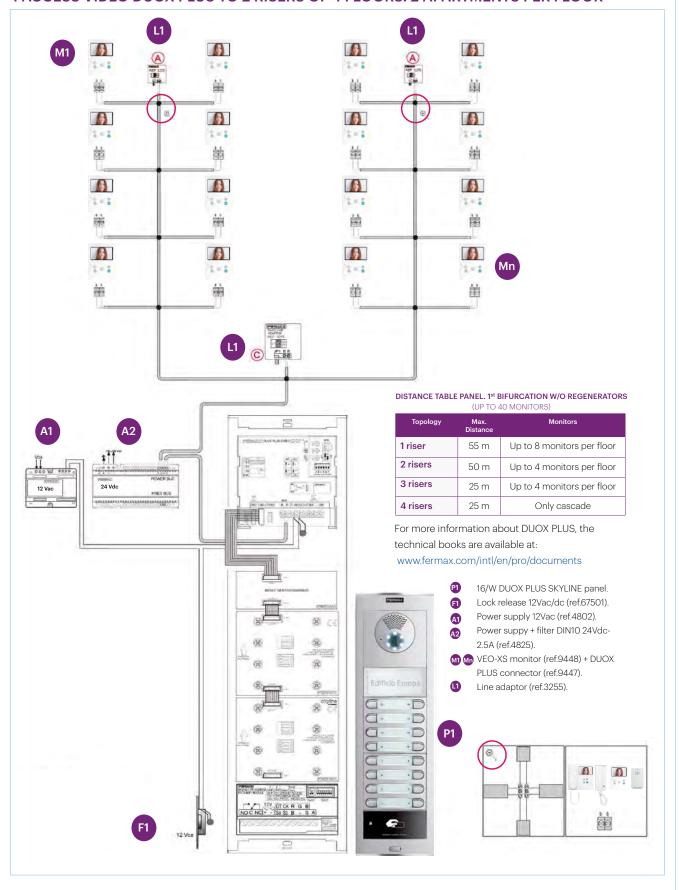
1 ACCESS VIDEO DUOX PLUS TO 1 RISER OF 4 FLOORS. 4 APARTMENTS PER FLOOR





DUOX PLUS VIDEO DIAGRAM

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

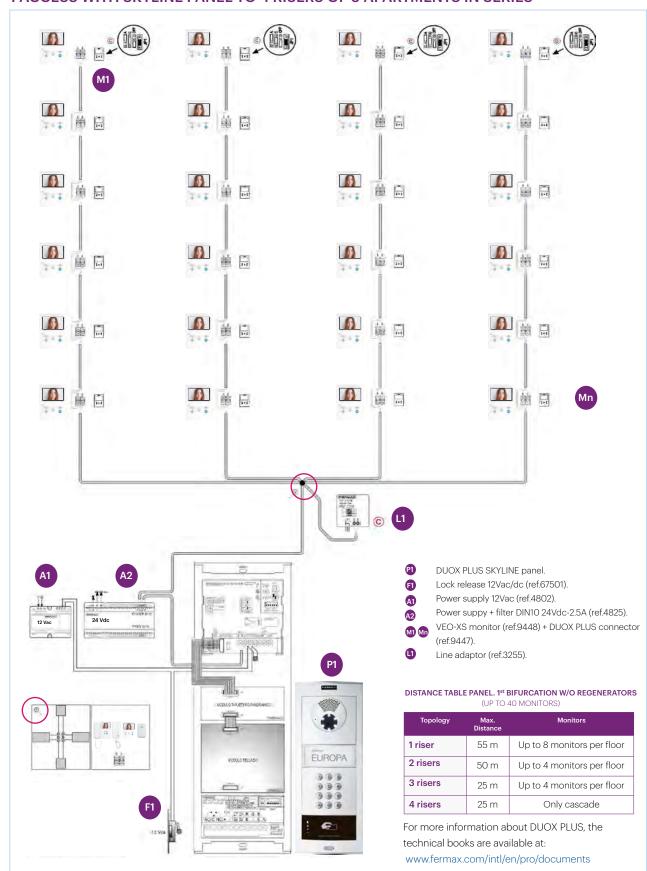


TECHNICAL INFORMATION

TABLES AND DIAGRAMS

DUOX PLUS VIDEO DIAGRAM

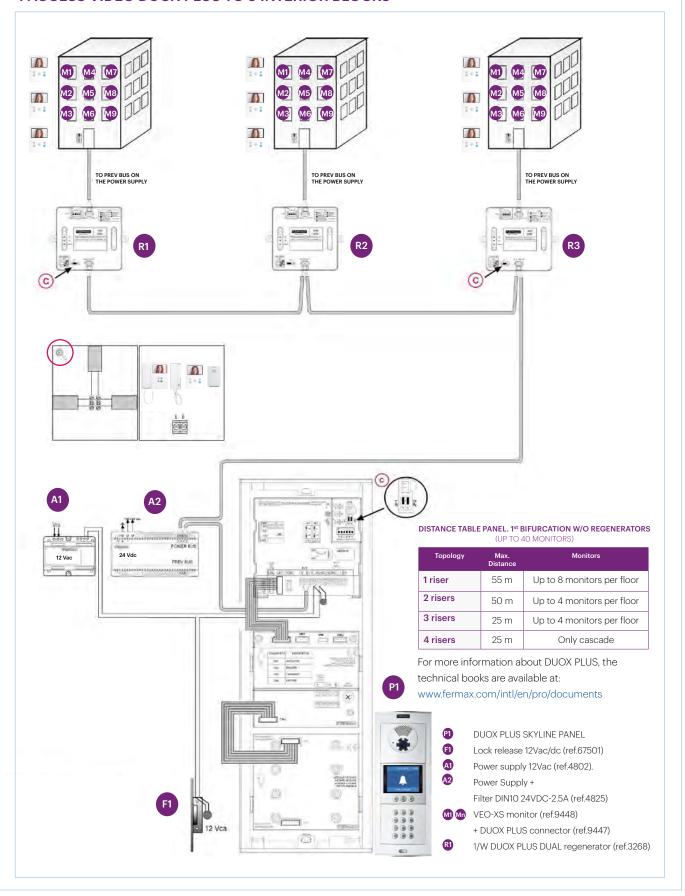
1 ACCESS WITH SKYLINE PANEL TO 4 RISERS OF 6 APARTMENTS IN SERIES





DUOX PLUS VIDEO DIAGRAM

1 ACCESS VIDEO DUOX PLUS TO 5 INTERIOR BLOCKS



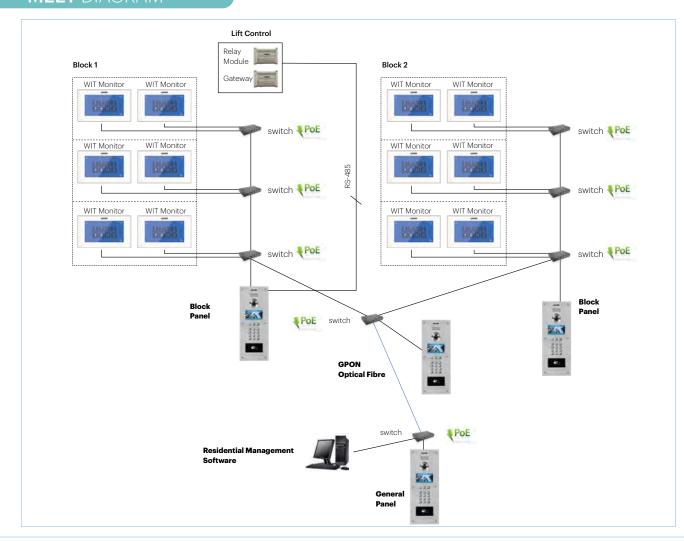
TECHNICAL INFORMATION

TABLES AND DIAGRAMS

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 to 70°C -20°C to 60°C										
Installation mounting		Flushed or Surface									
Installation adjustment	Flush box with adjustable screws or surface with surface box										
Ledge on the wall (flush mounted)	8mm										
Fixing screws	Not visible	Visible security screws (Inox)	Not visible								
Electronic calling directory	Yes	Yes	No								
Low-lighting vision		0,5 L	ux								
Camera resolution		1,2 Mpx (Digital Panel) 1 N	Mpx (1/W Video Panel)								
Sends video to recorder		Yes - Continuous	RTSP IP stream								
Aerial camera display		Up to 4 came	ras 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		p 10.000 users	Up to 6.000 users in digital panels								

MEET DIAGRAM





MEET MONITORS FEATURES

GENERAL FEATURES	NEO 7"	10" WIT							
CENTENTE I EXITORES	14501	14701	14811						
Technology		MEET Full IP							
Mounting	S	urface	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 >	< 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 dis	sturb						
PROGRAMMING AND TECHNICAL FEATURES									
Programming modes		On screen menu or web serve	r						
Address Assignment		Static IP + apartment number							
PoE		Yes							
Codecs		G.711, H.264							
FEATURES									
Picture capture when the visitor calls	Yes, up to	64 pictures. Automatic or manu	ıal capture.						
Memory photo download in SD Card		Yes v2.1 in MIO and WIT monitor	S						
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		No							
Apartment to apartment intercom	Yes (v	3.0) Up to 9 terminals in the same	e house						
Monitor to monitor messaging		No							
Receive/send messages from/to GU	Monitor can re	ceive messages from the Manag	ement 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	N	o. 10 Vdc output on alarm trigger	ring						
Doormatic		No							
KNX Home Automation integration	Yes. v2.1	or higher through APPs. Gatewa	y ref.9861.						
Alarm management		7 zones + Tamper							
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							
Brightness, contrast and colour control		Yes							

Visit our technical Youtube channel to solve your questions about DUOX PLUS products: www.youtube.com/user/TecnicoFermax

VDS VIDEO KITS FEATURES







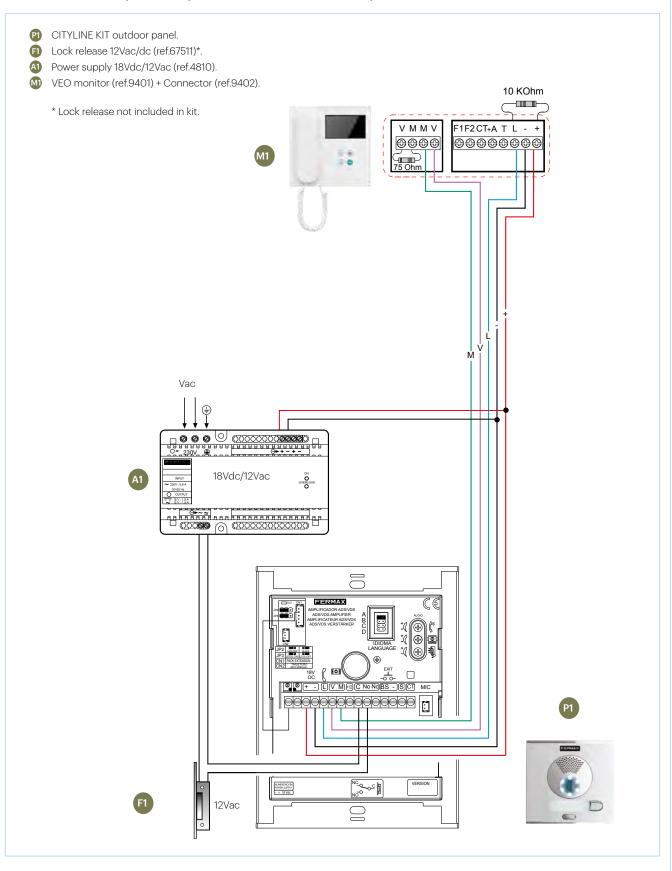
VDS VIDEO KITS	VEO KIT 9411/9412					
OUTDOOR PANELS						
Finish	Aluminium and chromed zamak					
Mounting	Flush mounted					
Output +12Vdc for lock release	Yes					
Recommended lock release	Normal lock release with unlocking and adjustable latch 990ND-P22 MAX (ref.67511)					
Free potential contact	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 (required ref. 3266 WIFI VDS CALL DIVERT WI-BOX. One unit per home)					
Compatibility with telephone interface	Yes					
Compatibility with aerial cameras	Yes					
Dimensions (mm)	200x200x44					
Decorative frame	ref.3389 (210x240)					

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



VDS VIDEO KITS DIAGRAM

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



TECHNICAL INFORMATION TABLES AND DIAGRAMS

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	White
Number of push buttons	4
Type of push buttons	Mechanical (silicone)
Status led notifications	Wechanical (sincone)
	<u>'</u>
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.
Time to unoner or open the deer emee the cum to denie	00 3.
Conversation time	90 s.
Conversation privacy	Yes
Voltage	18Vdc
Maximum consumption (mA)	400
Standby consumption (mA)	12
Operating temperature (°C)	[-5°C, +40°C]
Humidity	
· · · · · · · · · · · · · · · · · · ·	[0%, 90%]
Product weight (kg)	0,59
Connections	V, M, M, V, F1, F2, Ct, +A, T, L, -, +



VDS MONITORS FEATURES

GENERAL FEATURES	6545	6550	6575							
Technology		VDS (3+coax or 5 wires)								
Audio/video		Audio/Video Colour								
Mounting	Quet	face: order connector ref.65	65							
	Juli	race, order connector rei.oo								
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" (Panoran								
Screen resolution (H x V)	320x240	800x4								
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	Yes (by means of the door release button)									
Auto-on	Yes (up to 2 panels) and aerial cameras									
OSD menu on screen	Yes									
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.)										
Doormatic (automatic door release for offices, etc.)	V (Yes	10V 0 t t							
Audio/Video call forwarding to smartphone	Yes (required ref. 3266 WIFI VDS CALL DIVERT WI-BOX. One unit per home)									
CONTROLS										
Date and time	Yes 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										
Product dimensions (width x height x depth) mm	103x172x21 (surface)	185x172x2	1 (surface)							
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)	550	650	720							
Standby consumption (mA)	25	26	45							
Operating temperature (°C)		[-5°C, +40°C]								
Humidity		[5%, 95%]								
Product weight (kg)	0,36	1	1,61							
Connections	· ·	ıx, V, M, M, V, F1, F2, Ct, +A,	T, L, -, +							
	,									

TECHNICAL INFORMATION TABLES AND DIAGRAMS

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	Ye	es	-					
Hands-free communication		-	Yes					
Optional communication (Press-to-talk)		-	Yes					
Inductive loop version	Yes (replace har	ndset for ref.3441						
	with indu	ctive loop)	-					
Colour of the product		White						
Number of push buttons	1	3	3					
Type of push buttons		Mechanical						
Status led notifications	-	1	3 (red, blue and					
		(red ON/OFF)	green with					
		(ICC CITY CITY)	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	-	n, sends a negative)						
Additional function F2								
	-	sends a negative)	-					
Apartment door bell differentiated from the outdoor panel	Yes							
Connection for additional devices (call extension, light/		Voo						
buzzer activator, etc.)		Yes						
Doormatic (automatic door release for offices, etc.)	-	Yes (led i	ndication)					
Audio call forwarding to smartphone	Yes (required ref. 3266 V	VIFI VDS CALL DIVERT WI-BO	DX. One unit per home)					
CONTROLS								
Melodies selection	-	Yes (2, by a 2	Yes (5)					
		positions switch)						
Call volume control		Yes (3 positions switch:	Yes					
	-	high, medium, OFF)	(by sliding wheel)					
		riigri, mediarri, err)	(2) chang micely					
"Do not disturb" function		Yes (3 positions switch:	Yes					
	-	high, medium, OFF)	(by sliding wheel)					
Audio volume control		=						
TECHNICAL FEATURES								
Product dimensions (width x height x depth) mm	85v2	20x40	90x146,5x20					
Time to answer or open the door since the call is done	00/2		30/140,0//20					
Conversation time		30 s.						
		90 s.						
Conversation privacy		Yes 19V/do						
Voltage Maximum consumption (mA)			18Vdc					
Maximum consumption (mA)	2	215	300					
Standby consumption (mA)	[1000	6	24					
Operating temperature (°C)		, +60°C]	[-5°C, +40°C]					
Humidity Description (Lee)		, 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,-,+					



VDS PROJECT **MATERIAL LIST**

VIDEO SKYLINE PANEL

	VEO CONNECTOR	ref. 9402	2	4	9	Ø	10	12	41	16	18	20	22	24	24	26	28	30	32	32	34	36	38	40
"	VEO MONITOR	ref. 9401	2	4	9	∞	0	72	7	16	20	20	22	24	24	26	28	30	32	32	34	36	38	40
	4 WAYS DISTRIBUTOR	ref. 2449		_	2	2	ო	က	4	4	വ	വ	9	9	9	7	7	Φ	Φ	∞	o	Ō	0	10
	POWER	ref. 4830	~	_	_	_	_	_	_	-	_	_	_	-	—	_	-	_	_	-	_	_	_	_
	WITHOUT PUSH BUT. W	ref. 7443																		-				
	WITHOUT PUSH BUT. V	ref. 7442														-	-				-	-	i	
waren en e	204	ref. 7371				_	_	_	_	7	2	7	7	ო	က	7	m	ო	ო	4	4	4	4	ഹ
(1) (MK	202	ref. 7372		-	<u></u>			-	_			-	_			7	-	-	7			-		
, a	201	ref. 7376	_		-		-		-		-		-			-		-	}		_		-	
	VIDEO COL.	ref. 7421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O	CA- BLE	ref. 2541													—	-	-	-	-	-	-	-	-	-
ė	JOINING	ref. 8829													_	-	-	-	-	-	-	-	_	-
	FLUSH BOX		8854	8854	8855	8855	8856	8856	8857	8857	8858	8858	8982	8982	8855X2	8856X2	8856X2	8856X2	8856X2	8857X2	8857X2	8857X2	8857X2	8857X2
	REF. FRAME		7333	7333	7334	7334	7335	7335	7336	7336	7337	7337	7338	7338	7334X2	7335X2	7335X2	7335X2	7335X2	7336X2	7336X2	7336X2	7336X2	7336X2
	FRAME		38	3<	4V	4	2<	2<	N9	9	2	2	>8	%	4 V	2<	5<	20<	5<	9	9	9	N9	N9
SKYLINE PANEL	SERIES		84	84	SS	SS	98	98	S7	87	88	88	89	83	S5	98	98	98	98	S7	87	S7	S7	S7
	N° APART.		7	4	ဖ	ω	6	12	4	91	8	20	22	24	24	26	28	တ္တ	32	32	34	36	88	40

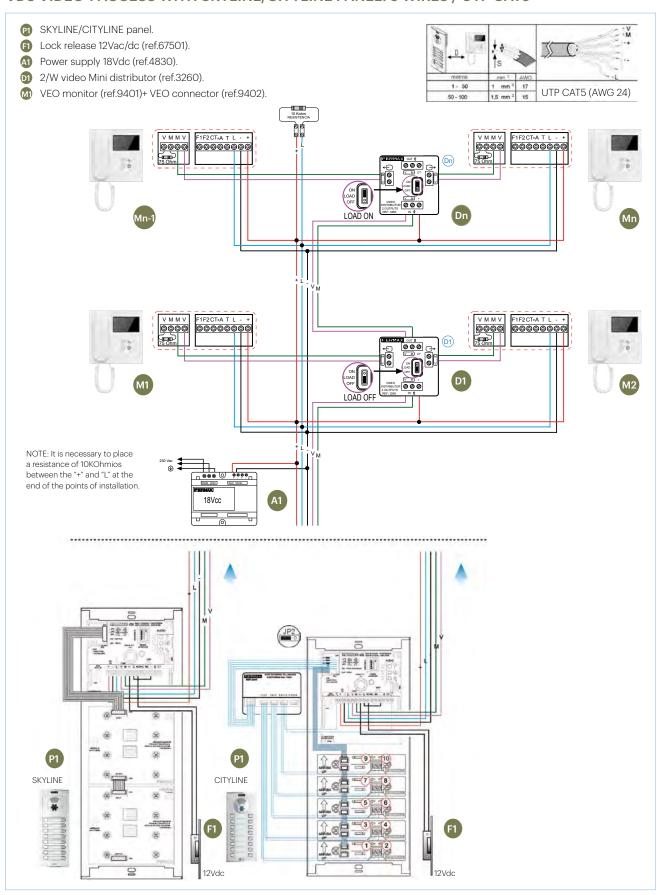
^{*} NOTE: It will require continuous door opener (ref.67501). For AC door openers (Vac), an additional power supply ref.4802 (12Vac / 1A) is required. There are 2 and 4 outputs distributors that can be combined in one installation. They are not necessary in a cascade installation. (See VDS system section);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

TECHNICAL INFORMATION

TABLES AND DIAGRAMS

VDS **DIAGRAMS**

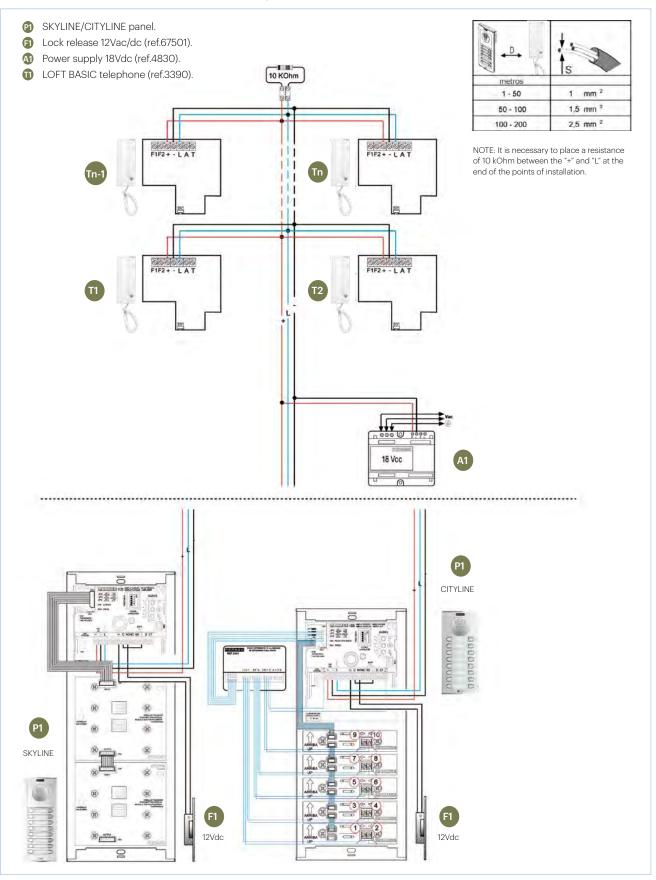
VDS VIDEO 1 ACCESS WITH SKYLINE/CITYLINE PANEL. 5 WIRES / UTP CAT5



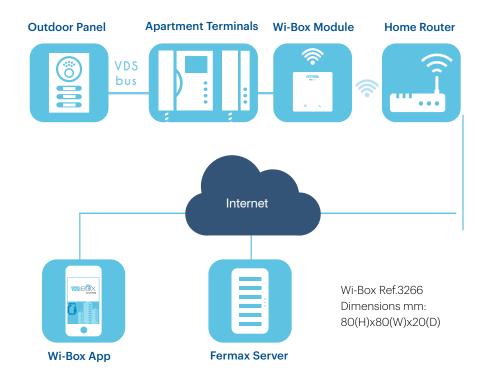


VDS **DIAGRAMS**

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 push button	2 (PB1: user push button; PB2: installer push button)
Kind of push button	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)
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	Yes. Photos and Videos manually
Available languages	16 (Spanish, English, French, German, Portuguese, Finnish, Czech, Polish, Dutch, Norwegian, Greek, Danish, Swedish, Hebrew, Russian, Arabic)
Remote update of WIBOX firmware	Yes









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

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)	
F 0(1)	FO. 00(2)	Accesses (Nº panels)	Accesses (Nº panels)	00	0	50- 99 ⁽²⁾	
5 - 9 (1)	50- 99 (2)	See MDS Digital table	See MDS Direct table	99	99 9		

- (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.
- (2) 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	E BLOCK	GENERAL I	ENTRANCE	INTERIOR BLOCK			
Accesses (N°. Panels)	Apartments	Digital MDS	Direct MDS	N°. of blocks	Accesses per block (No. panels)	Apartments (per block)	
5.00	Accesses Accesses (Nº panels) (Nº panels)		00	0			
5 - 9 ⁽¹⁾	99	Consulting MDS Digital Info.	5 - 9 ⁽¹⁾	99	9	99	

- 0 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 Entrand - Up to 32 accesses (panels/quard unit) x Cer	·				
32	9999	 - Up to 32 accesses (panels/guard unit) x Central Unit - Up to 9.999 apartments x Interior Block Central Unit with LONG call. - Up to 99 apartments x Interior Block Central Unit with SHORT call. 					

4+N. MATERIAL LIST

CITYLINE AUDIO PANEL

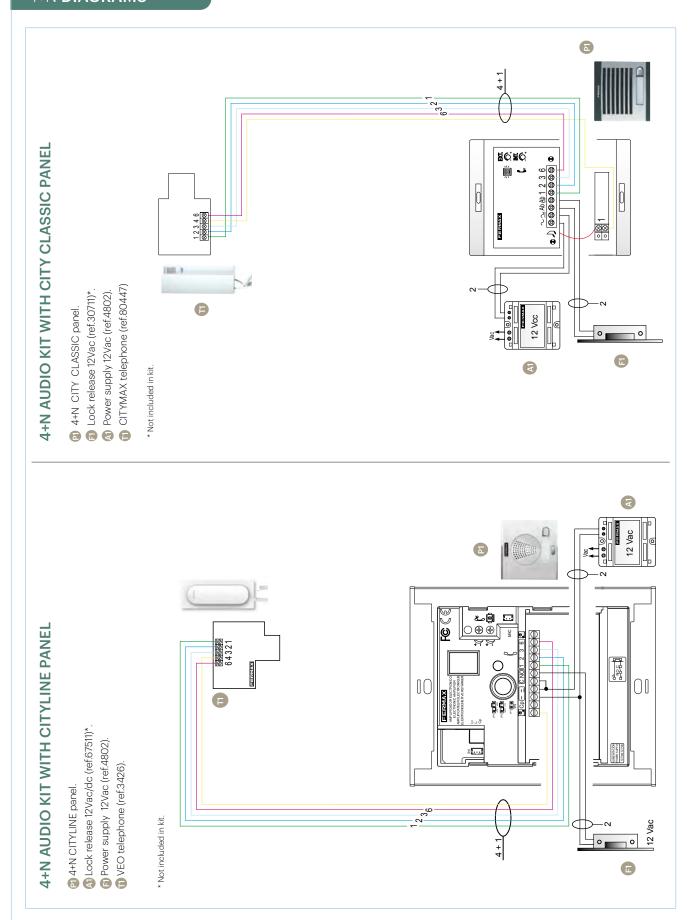
These panels include the Full or Building Amplifier. See the first page of the 4+N section for additional features over the Basic or Kit amplifier.

CITYI PAN				00000000	7	00 m	10. M. 100 2. M.	0
Nº APARTMENT	SERIES	PANEL	FLUSH BOX	PANEL	FLUSH BOX	JOINING	POWER SUPPLY	TELEPHONE
						ref.8829	ref.4802	ref.3426
1	S1	70701	8851				1	1
2	S1	70001	8851				1	2
3	S 3	70721	8853				1	3
4	S2	70011	8852				1	4
5	S 5	70821	8855				1	5
6	S 3	70021	8853				1	6
8	S4	70041	8854				1	8
10	S 5	70121	8855				1	10
12	S 5	70131	8855				1	12
14	S6	70221	8856				1	14
16	S6	70231	8856				1	16
18	S7	70321	8857				1	18
20	S7	70331	8857				1	20
22	S8	71141	8858				1	22
24	S8	71151	8858				1	24
26	S9	71621	8982				1	26
28	S9	71631	8982				1	28
30	S6	70221	8856	7268	8856	1	1	30
32	S6	70231	8856	7268	8856	1	1	32
34	S6	70231	8856	7027	8856	1	1	34
36	S 7	70321	8857	7031	8857	1	1	36
38	S 7	70321	8857	7040	8857	1	1	38
40	S 7	70331	8857	7040	8857	1	1	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).

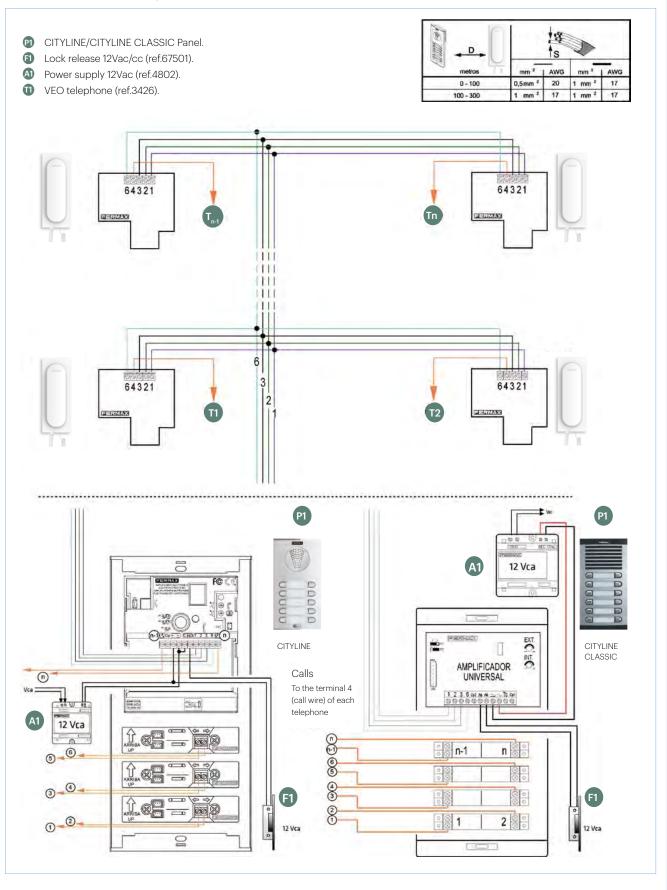
TABLES AND DIAGRAMS

4+N **DIAGRAMS**

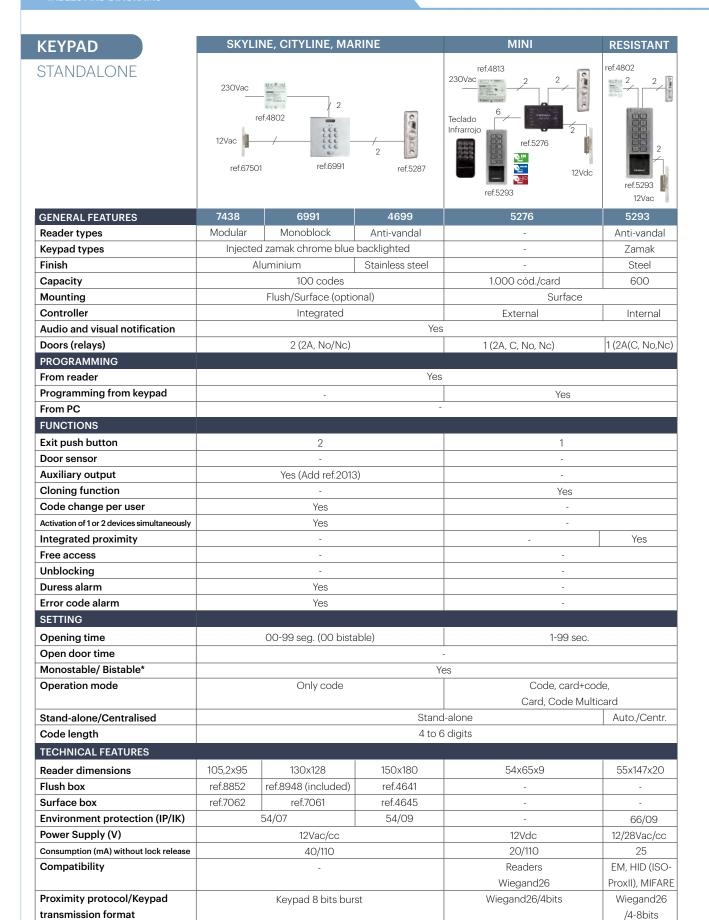


4+N **DIAGRAMS**

4+N AUDIO. CITYLINE/CITYLINE CLASSIC



TABLES AND DIAGRAMS



[-15°C to 55°C]

[-40°C to 60°C]

Operating temperature

^{*} Bistable: Per each valid identifier, it activates or deactivates the device.



RESISTANT

PROXIMITY

STANDALONE

	230Vac 230Vac 2	ref.48C	230Vac ref.4813 2 2 2 ref.5276 12Vdc Infrarred keypad		
GENERAL FEATURES	7440	6992	5472	5276*	5296
Reader types	Modular	Monoblock	Anti-vandal		Compact
Keypad types		ak chromed blue back			Compact
Finish		ninium	Stainless steel		Metal
Capacity	Aluli	400 users	Otali liess steel	1.000 users	Ivietai
Mounting		lush/Surface (optiona			lface
Controller		Integrated	<u>y</u>		ernal
Audio and visual notification		Yes			es
Doors (relays)		2 (2A, No/Nc)		1 (2A, C, No, Nc)	-
Nº MASTER cards		2 (ZA, NO/NC)		2	-
PROGRAMAMING		'		<u> </u>	
From reader			Yes		
From keypad		Van (ref 2200)	165	Vac (in alua	laa aantrallar)
From PC		Yes (ref.2306)		res (includ	les controller)
FUNCTIONS					
Exit push button			1		
Door sensor			<u></u>		
Auxiliary output		Yes (Add ref.2013)		1	
Cloning function		Yes		Yes	-
Open or forced door alarm		Yes		162	<u> </u>
SETTINGS		res			
Opening time		1-99 sec.		1-QC	sec.
Open door time		50sg (as default or disa		1 33	-
Monostable/Bistable*		Monostable (1-99 sec.			es
Operation mode		Card	/		Multicard
Stand-alone/Centralised		tand-alone/Centralise		Stand-alone	Stand./Central.
TECHNICAL FEATURES		taria diorie/ certifulise		Staria diorio	Otaria., Coritrai.
Reader dimensions	105,2x47,5	130x128	150x180	54x65x9	103x48x20
Flush box	ref.8851	ref.8948 (includes)	ref.4641		100040020
Surface box	ref.7061	ref.7061	ref.4645		_
Environment protection (IP/IK)	54/0		54/09	_	66/09
Power Supply (V)		12Vac/cc		12V	· · ·
Consumption (mA) without lock release		90/110		20/110	35/25
Compatibility		ards/keyrings EM 125K	 hz	Readers	Cards/Keyrings
		ndo/koyimgo zwi izok	112	Wiegand26	EM, HID (ISOProxII) MIFARE (13,56Mhz)
Proximity protocol/ Keypad	Stand-alone / Dat	ta Clock / Wiegand 26	/ Prox. MDS-AC+	Wiegand26	Wiegand26
transmission format	, 54	,			
transmission format					

SKYLINE, CITYLINE, MARINE

 $^{^{\}star}$ Bistable: Per each valid identifier, it activates or deactivates the device.

TABLES AND DIAGRAMS

FINGERPRINT

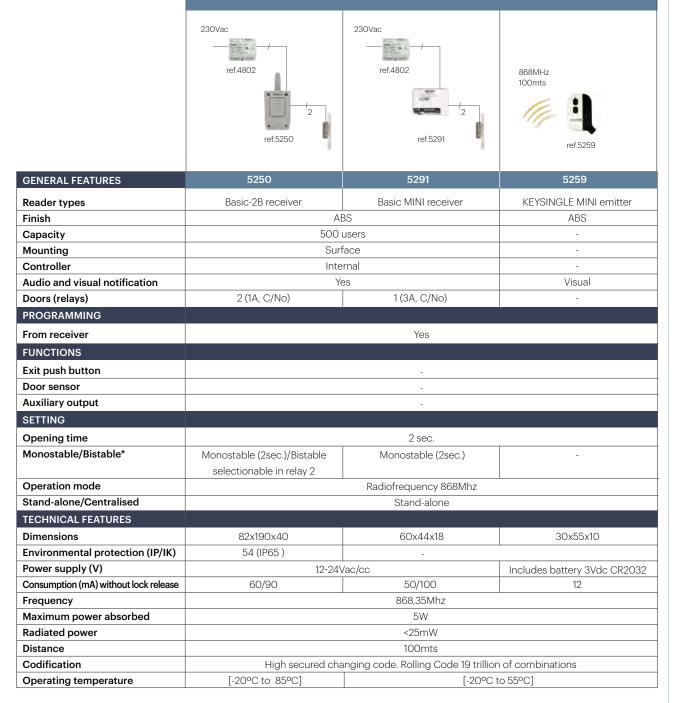
STANDALONE





RADIOFREQUENCY

STANDALONE



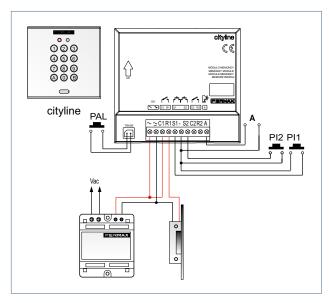
^{*}Bistable: Per each valid identifier, it activates or deactivates the device.

TARLES AND DIAGRAMS

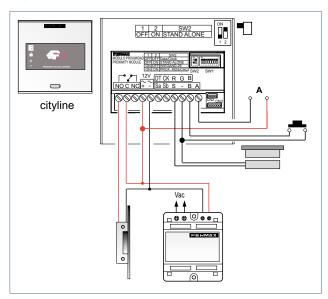
DIAGRAM. STAND-ALONE ACCESS CONTROL INSTALLATION

WITH INTEGRATED CONTROLLER

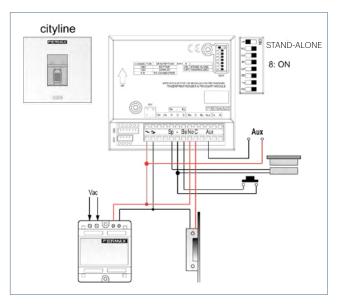
KEYPAD



PROXIMITY



FINGERPRINT



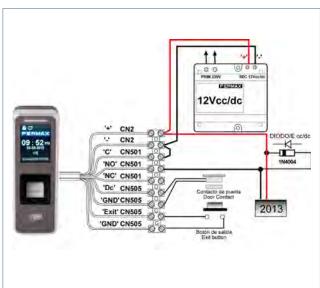
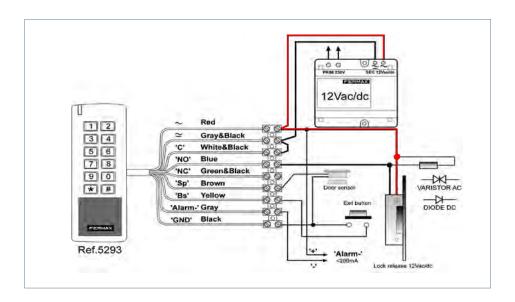


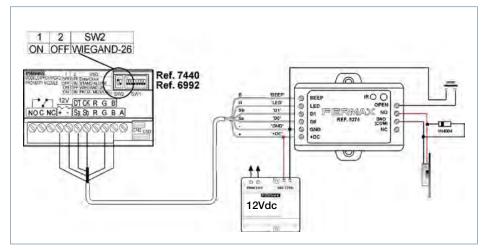


DIAGRAM. STAND-ALONE ACCESS CONTROL INSTALLATION

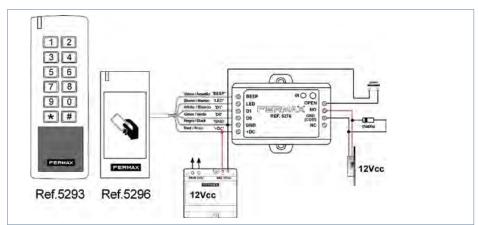
RESISTANT KEYPAD WITH INTEGRATED CONTROLLER



WITH EXTERNAL CONTROLLER CITY READER WITH MINI CONTROLLER



WG READERS



TECHNICAL INFORMATION TABLES AND DIAGRAMS

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		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	

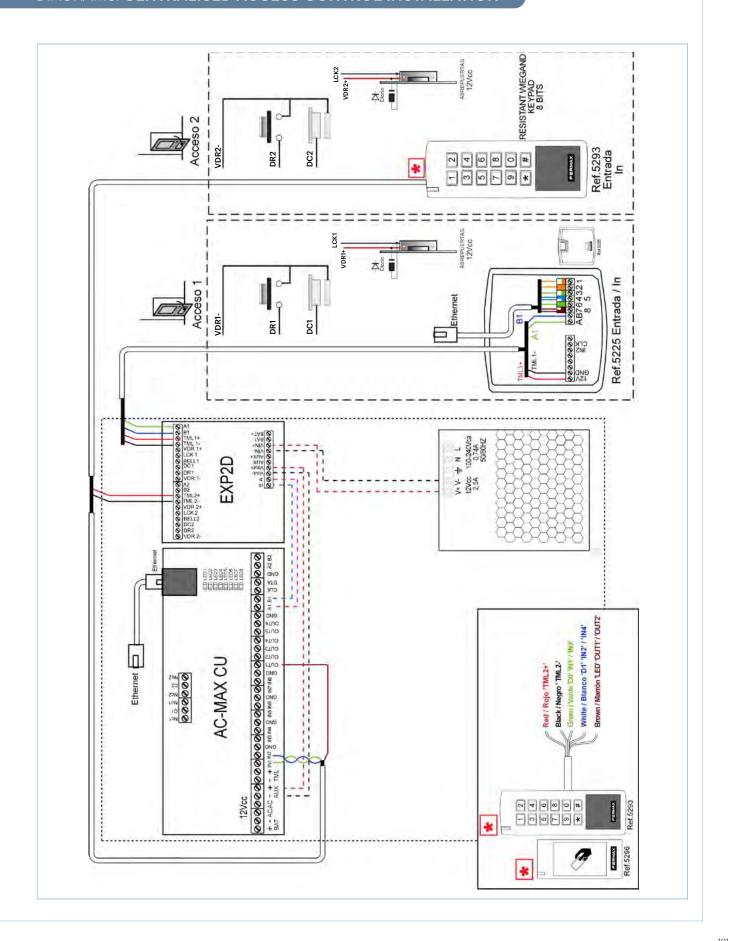
^{*} The readers ref.7461 and ref.6958 have the same technical features as the reader ref.5296, except for the aesthetics.

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	1/8	hits hurst kaynad (salactahla h	v SW/1)			
transmission format	4/8 bits burst keypad (selectable by SW1)					
Operating temperature	[-15°C to 55°C]					
Terminals		+, -, D0, D1, G, B				



DIAGRAMS. CENTRALISED ACCESS CONTROL INSTALLATION









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1824		1			00010		

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70713	CITY PANEL VDS S2 AP 102	02	79
70717	CITY PANEL VDS COLOUR S2 CP 102	02	79
70717	CITY PANEL 3S AP 103 AUDIO 4+N	02	118
	CITY PANEL VDS S3 AP 103		
70723		02	79
70727	CITY PANEL VDS COLOUR S3 CP 103	02	79
70741	CITY PANEL 4+N S4 AP104	02	118
70743	CITY PANEL VDS S4 AP 104	02	79
70747	CITY PANEL VDS COLOUR S4 CP 104	02	79
71141	CITY PANEL 4+N S8 CP211	02	118
71151	CITY PANEL 4+N S8 CP 212	02	118
73611	DUOX PLUS DIRECT CITY AUDIO PANEL	02	4
73614	DUOX PLUS DIRECT 1W CITY AUDIO PANEL	02	4
73631	DUOX PLUS DIRECT CITY VIDEO PANEL	02	4
73638	DUOX PLUS DIRECT 1W CITY VIDEO PANEL	02	4
73811	DUOX PLUS DIGITAL CITY VIDEO PANEL PROX	02	4
73818	DUOX PLUS DIG 1W CITY VIDEO PANEL PROX	02	4
73851	DUOX PLUS DIGITAL CITY AUDIO PANEL	02	4
73871	DUOX PLUS DIGITAL TWO CITY VIDEO PANEL	02	4
73878	DUOX PLUS DIGITAL 1W CITY VIDEO PANEL	02	4
73881	1W DUOX PLUS MEMOVISION CITY PANEL	19	15
73891	CITY PANEL DUOX PLUS S4 CVP101 DDA	02	15
73901	DUOX PLUS AUDIO SKYLINE MODULE W	02	35,36
73911	DUOX PLUS VIDEO SKYLINE MODULE W	02	35,36
80447	BASIC CITYMAX TELEPHONE WHITE	02	23,25,120
88101	DOUBLE CONTACT RELAY	04	92,123
88231	P.S.U.DISTR.230VAC-12VAC-DC	02	12
89992	DOUBLE SPECIAL CITY FRAME AG NETT	02	42,80
89993	TRIPLE SPECIAL CITY FRAME AG NETT	02	42,80
94411	1W DUOX PLUS VIDEO CITY VEO-WIFI KIT	03	42,00
U-1-111	2W DUOX PLUS VIDEO CITY VEO WIFI KIT		
94421		03	13

REF	DESCRIPTION	FAM	PAGE
94521	2W DUOX PLUS VIDEO CITY VEO-XS WIFI KIT	03	13





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COMMERCIAL CONDITIONS OF SALE

The present commercial conditions of sale shall be applicable to all sales or deliveries carried out by FERMAX, unless otherwise agreed in writing with the Buyer.

ORDERS

Orders shall be processed exclusively through authorized distributors.

DELIVERIES

The delivery dates agreed with FERMAX shall be considered approximate. FERMAX undertakes to do its utmost to comply with the agreed delivery dates, always provided the Buyer facilitates all correct information relating to the order and the delivery with sufficient anticipation.

The delivery term shall be reasonably extended when causes beyond the decision and control of FERMAX prevent to comply with the agreed delivery date.

ACCEPTANCE OF GOODS

The Buyer shall review and inspect the goods, as to quality and quantity, within the maximum period of five days after the date of delivery.

OWNERSHIP RESERVE AND RISKS

FERMAX shall continue to be the lawful owner of the Products supplied until the full payment of the agreed amounts.

Notwithstanding the above, the risks inherent to the Products supplied shall be conveyed to the Buyer from the moment the Products are delivered by FERMAX.

PRICES

Prices do not include any indirect taxes applicable according to the legislation in force from time to time. Other taxes, duties

and charges that must be applied shall be borne by the Buyer, unless otherwise agreed in writing with FERMAX.

SHIPPING COSTS

Prices established in offers, orders, catalogues and other documents are EXWORKS prices. Prices do not include the shipping cost except otherwise clearly indicated.

PAYMENT

Unless FERMAX and the Buyer agreed otherwise in writing, payments shall be made within the periods established by the legislation in force.

FERMAX may require the necessary guarantees to assure that the Buyer complies with all agreed payment terms and conditions, if appropriate considering the financial position of the latter.

GUARANTEES

FERMAX shall provide guarantee during a period of TWO (2) YEARS following the date of the sale invoice for any original defects in the Products, subject to the terms and conditions established in the legislation in force and in these Commercial Conditions of Sale. This guarantee shall be processed by the Official Technical Services and Official Distributors of FERMAX, regardless the location of purchase. The Products processed for guarantee that do not comply with the provisions set forth in the previous paragraph shall be treated as out of guarantee. FERMAX reserves the right to apply the appropriate measures to compensate any possible damages caused. Any deficiencies beyond the control of FERMAX shall be excluded from the guarantee and liability of the latter, specially when they are the result of normal wear, false information provided by the

Buyer, inadequate maintenance, failure to observe the operating instructions, use of any inappropriate material, influence of chemical or electrolytic action or other similar causes. The guarantee of FERMAX shall be subject to the appropriate compliance with all payment terms and conditions agreed with the Buyer.

DAMAGES

Under no circumstances shall the Buyer be authorized to make contractual or extracontractual claims for damages deriving from, but not limited to, the loss of production, use, orders, profits, nor for any other direct, indirect or consequential damages.

FERMAX shall be only liable to compensate the client for the costs associated to repairing the deficiencies or incidents occurred during the process of supplying the goods that are attributable to the former.

RETURNS

All returns of material must attach a Return Authorization Document to be obtained from the Sales Department.

All materials must be in mint condition and include the original packaging before any return is authorized. Depreciations may be applied according to the corresponding policies in force.

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 [®] is a registered trademark. All intellectual property and license rights reserved.



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