

FERMAX

2nd
Edition

GENERAL CATALOGUE
2019

70
ANNIVERSARY
1949-2019

DESIGN

Fermax Electrónica S.A.U.

2019 GENERAL CATALOGUE

2nd Edition. October 2019

Check commercial conditions in the inside back cover.

70 FERMAX ANNIVERSARY 1949-2019

70 YEARS BY YOUR SIDE

The world has changed a lot in seven decades. Change is the only certainty in today's world but one which Fermax thrives on as it responds to **the needs of an increasingly diverse and constantly evolving society** that seeks to utilize technological advances to fulfill aspirations.

Our journey starts in 1949. We grew thanks to the door entry systems at the same rapid pace as our cities. Time and **passionate dedication** have led us to become **a world leading company in communication systems for residential buildings, homes and businesses.**

Fermax was born with a clear international vocation. The globalization of markets, despite high demands, has made us reaffirm our commitment. Year after year, we face the challenge of competing successfully **with our own culture which has made us unique: the combination of technology and design.**

Today, the elegance and effectiveness of our product allows us to work together with the best architectural studios and contribute our Know-How to the most demanding engineering and integration teams. Moreover, what really continues to excite us is to create proposals to meet the needs of **people who use our products every day, within homes of all over the world.**

In 2019 we take the leap to **networkable products including multiple applications.** This is a transformation that will enable us to continue to serve the needs of a constantly evolving world that seeks ever-closer inter-connection.

After 70 years of manufacturing products we still understand that **it's all about building communications. It's about people. It's about you.**



1949 - 2019



FERMAX

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.



Bahia Center. ALGERIA



The Tree House. AUSTRALIA



Sonwendviertel. AUSTRIA



Gran Reserva de Pontevedra. COLOMBIA



The Silo. DENMARK



Seventh Heaven. DUBAI



Ryad al Andalous. MOROCCO



SOL Apartments. NEW ZEALAND



Art Deco - Woly Apartments. POLAND



D'Leedon. SINGAPORE



Atria Homes. SPAIN



Tema Istanbul. TURKEY



Nautilus. BELGIUM



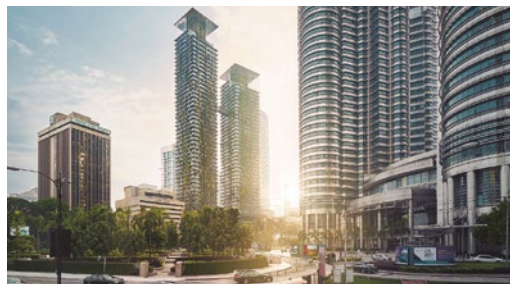
Le Metropol. CANADA



Kerry Habitat. CHINA



Grand Hôtel Dieu. FRANCE



Le Nouvel KLCC. MALAYSA



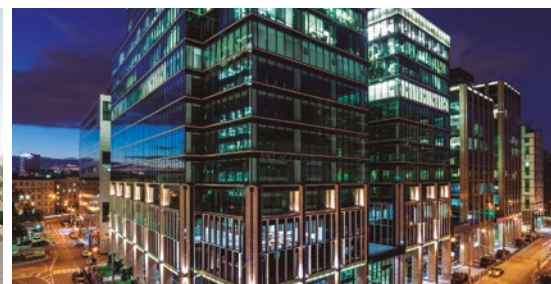
Bosque Real. MEXICO



Clube Humbria. PORTUGAL



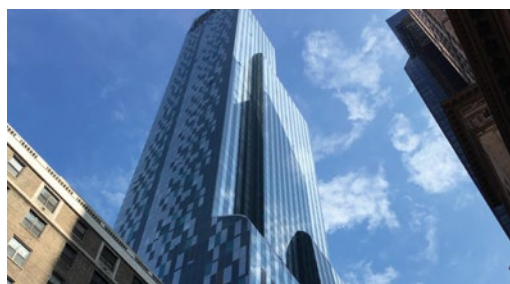
Al Waab City. QATAR



White Gardens. RUSSIA



Grafton Quarter. UNITED KINGDOM









One57. UNITED STATES

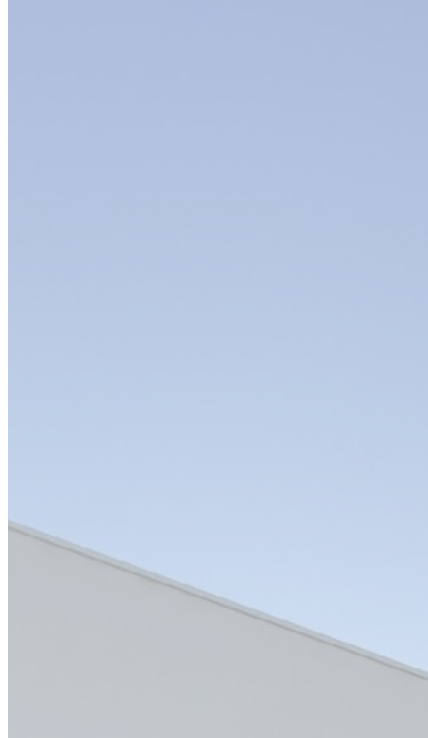


Masteri Thao Dien. VIETNAM



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KITS

Video Kits

Audio Kits

Audio Kits up to 24 apartments

FERMAX




SELECTION OF VIDEO KITS FOR RESIDENCES AND BUSINESSES

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

		Outdoor panel	Monitor	References (No. of ways)	Call Divert to smartphone	Technology
DUOX (page 10-13)	VEO DUOX WIFI KIT	cityline	VEO	9441(1W)	Yes	2 wires
	VEO-XS DUOX WIFI KIT	cityline	VEO XS	9451(1W)	Yes	2 wires
	VEO DUOX KIT	cityline	VEO	9421 (1W) 9422(2W)	No	2 wires
	VEO-XS DUOX KIT	cityline	VEO XS	9431 (1W) 9432(2W)	No	2 wires
	VEO-XS DUOX MARINE KIT	Marine	VEO XS	5073 (1W)	No	2 wires
	VEO DUOX ONE-TO-ONE KIT	cityline	VEO	4908 (1W)	No	2 wires
	VEO DUOX MEMOVISION KIT	cityline	VEO	4907 (1W)	No	2 wires
	VEO-XS DUOX MEMOVISION KIT	cityline	VEO XS	4912 (1W)	No	2 wires
WAY (page 14-15)	WAY-FI KIT*	way-Fi	way-Fi	1431 (1W)	Yes	2 wires
	WAY KIT	way	way	1401 (1W) 1402 (2W)	No	2 wires
VDS (page 16-17)	VEO VDS KIT	cityline	VEO	9411 (1W) 9412 (2W)	No	5 wires
	SMILE TOUCH VDS 7" KIT	cityline	smile TOUCH 7"	5074 (1W)	No	5 wires

2 WIRES (DUOX)

2 WIRES (WAY)

5 WIRES (VDS)

<i>Panel mounting</i>	<i>Integrated access control</i>	<i>Integrated OneToOne Accessibility Module</i>	<i>No. of additional panels</i>	<i>Monitor screen</i>	<i>Conversation mode</i>	<i>Capture of images</i>	<i>Intercommunication</i>	<i>Compatibility with video surveillance</i>	<i>No. of additional monitors without extra power supply</i>
Flush mounted	No	No	9	4,3"	With handset	Yes	No	Yes	2
Flush mounted	No	No	9	4,3"	Hands-free	Yes	No	Yes	2
Flush mounted	No	No	9	4,3"	With handset	Yes	No	Yes	2
Flush mounted	No	No	9	4,3"	Hands-free	Yes	No	Yes	2
Flush mounted	No	No	9	4,3"	Hands-free	Yes	No	Yes	2
Flush mounted	No	Yes	9	4,3"	With handset	Yes	No	Yes	2
Flush mounted	Yes (keypad)	No	9	4,3"	With handset	Yes	No	Yes	2
Flush mounted	Yes (keypad)	No	9	4,3"	Hands-free	Yes	No	Yes	2
Surface	No	No	1	7" touch	Hands-free	Yes	Yes	Yes	2
Surface	No	No	3	7" touch	Hands-free	Yes	Yes	No	1
Flush mounted	No	No	1	4,3"	With handset	No	No	Yes	1
Flush mounted	No	No	1	7" touch	Hands-free	No	No	Yes	1

DUOX WIFI KITS, FULL DIGITAL, 2 NON-POLARISED WIRES










9441 1/W DUOX VEO WIFI KIT

70708	1/W Colour DUOX CITY panel. S1: 130x128
8948	Flush box S1: 115x114x45.
9446	Colour 4,3" DUOX VEO WIFI monitor.
9447	DUOX VEO/VEO-XS monitor connector.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A.DIN10.
3244	DUOX filter.








9451 1/W DUOX VEO-XS WIFI KIT

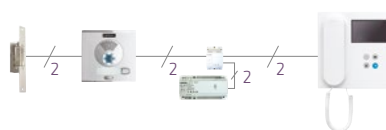
70708	1/W Colour DUOX CITY panel. S1: 130x128
8948	Flush box S1: 115x114x45.
9449	Colour 4,3" DUOX VEO-XS WIFI monitor.
9447	DUOX VEO/VEO-XS monitor connector.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A DIN10.
3244	DUOX filter.

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 set might be required (ref.4812 + ref.3244), adaptors ref. 3255 and/or regenerators.

- **Outdoor:** It is possible to extend the installation by adding more outdoor panels (up to 10). Depending on the type of cable and topology, a power supply set (ref.4812 + ref.3244) adaptors ref. 3255 and/or regenerators.

DUOX INSTALLATION DIAGRAM



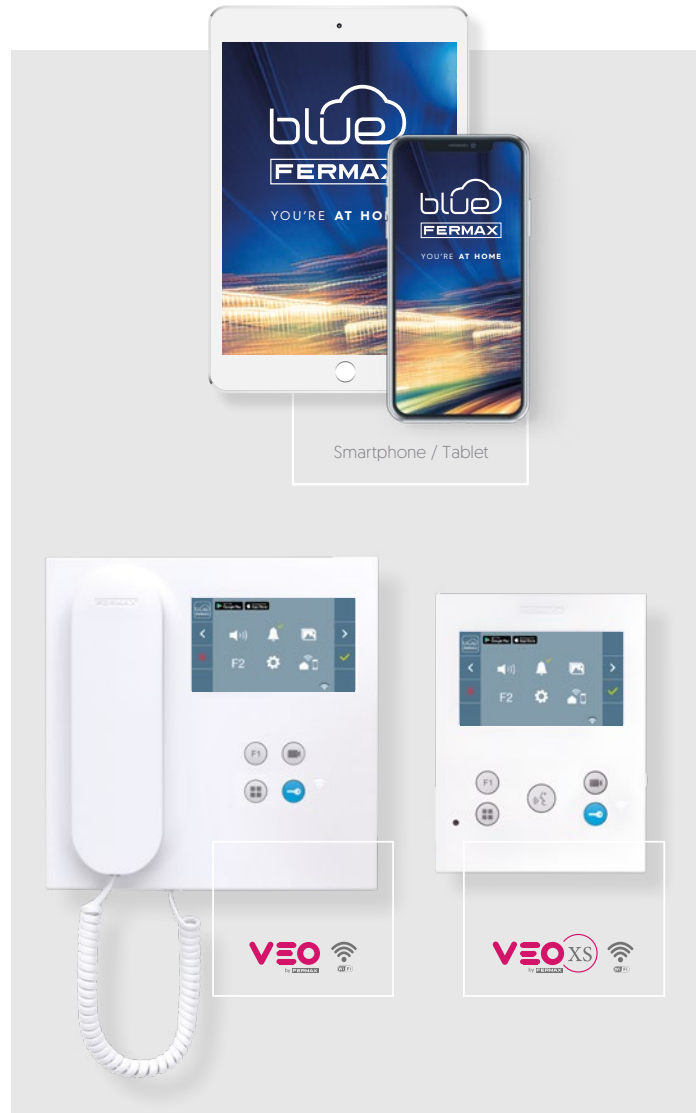
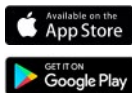
DISTANCES TABLE

Check the Technical manual of the kit.

See **ACCESSORIES** page 35.



WHEN YOU PRESS THE BLUE
ICON ON YOUR MOBILE
DEVICE, IT'LL BE LIKE
"BEING AT HOME"



The benefit of using DUOX WiFi monitors that changes everything is that it enables you to receive calls from your video door entry system on 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 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 video door entry system calls to your mobile device and open the door remotely.

If you think about it,
you'll find a thousand reasons to want them.

I WANT IT

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



DUOX KITS, FULL DIGITAL, 2 NON-POLARISED WIRES

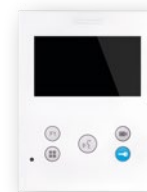


9421 1/W DUOX VEO KIT

- 70708 1/W Colour DUOX CITY panel. S1: 130x128
- 8948 Flush box S1: 115x114x45.
- 9445 Colour 4,3" DUOX VEO monitor.
- 9447 DUOX VEO/VEO-XS monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A.DIN10.
- 3244 DUOX filter.

9422 2/W DUOX VEO KIT

The same as kit ref.9421 but with 2/W video panel (ref.70008) and 2 VEO monitors (ref.9445) and connectors (ref.9447). Includes 1 line adaptor (ref.3255).



9431 1/W DUOX VEO-XS KIT

- 70708 1/W Colour DUOX CITY panel. S1: 130x128
- 8948 Flush box S1: 115x114x45.
- 9448 Colour 4,3" DUOX VEO-XS monitor.
- 9447 DUOX VEO/VEO-XS monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A DIN10.
- 3244 DUOX filter.

9432 2/W DUOX VEO-XS KIT

The same as kit ref.9431 but with 2/W video panel (ref.70008) and 2 VEO-XS monitors (ref.9448) and connectors (ref.9447). Includes 1 line adaptor (ref.3255).

See [ACCESSORIES](#) page 35.



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

- 7389 1/W colour DUOX OneToOne CITY panel with induction loop. Panel S4: 130x199.
- 8949 Flush box S4: 115x185x45.
- 9455 4,3" colour DUOX VEO monitor w/induction loop.
- 9447 DUOX VEO/VEO-XS monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 3244 DUOX filter.



5073 1/W DUOX VEO-XS MARINE KIT

- 54338 1/W colour DUOX MARINE panel. Panel ST1: 150x180.
- 4641 Flush box ST1: 130x160x55.
- 2008 8-call extension module.
- 9448 4,3" colour DUOX VEO-XS monitor.
- 9447 DUOX VEO/VEO-XS monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 3244 DUOX filter.



4907 1/W DUOX VEO MEMOVISION KIT

- 7388 1/W colour DUOX MEMOVISION panel. Panel S5:130x246.
- 8855 Flush box S5: 115x233x45.
- 9445 4,3" colour DUOX VEO monitor.
- 9447 DUOX VEO/VEO-XS monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 3244 DUOX filter.



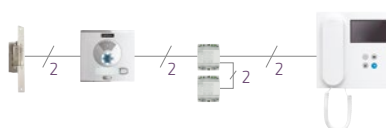
4912 1/W DUOX VEO-XS MEMOVISION KIT

- 7388 1/W colour DUOX MEMOVISION panel. Panel S5:130x246.
- 8855 Flush box S5: 115x233x45.
- 9448 4,3" colour DUOX VEO-XS monitor.
- 9447 DUOX VEO/VEO-XS monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 3244 DUOX filter.

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 set might be required (ref.4812 + ref.3244) adaptors ref. 3255 and/or regenerators.
- **Outdoor:** It is possible to extend the installation by adding more outdoor panels (up to 10). Depending on the type of cable and topology, a power supply set (ref.4812 + ref.3244) adaptors ref. 3255 and/or regenerators.

DUOX INSTALLATION DIAGRAM

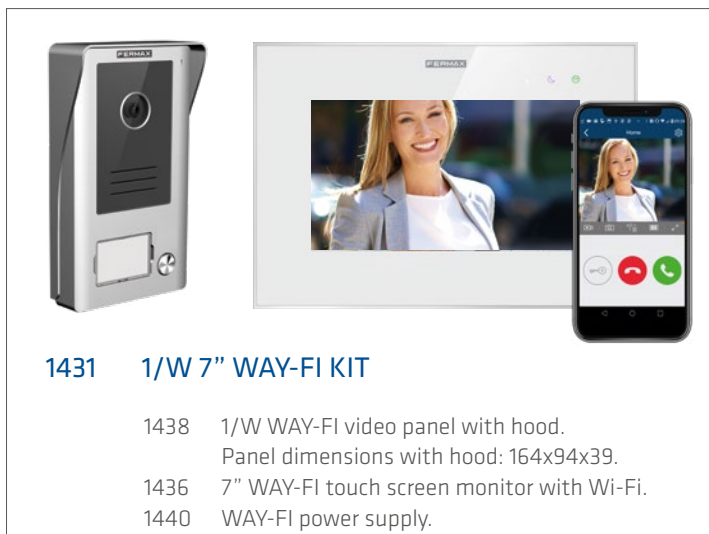


DISTANCES TABLE

Check the Technical manual of the kit.

See **ACCESSORIES** page 35.

WAY KITS WITHIN EVERYONE'S REACH. DO IT YOUR WAY!



EXTENSION

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

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

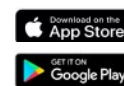
9981 PERIPHERAL CCTV BULLET CAMERA

9982 POWER SUPPLY PERIPHERAL CCTV CAMERA

9983 PAIR PERIPHERAL CCTV CAMERA

9984 POWER ADAPTOR PERIPHERAL CCTV CAMERA

CONNECTED TO YOUR HOME FROM ANYWHERE IN THE WORLD



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

Works in Wi-Fi or 3G/4G mode.

Auto-on of the outdoor panel camera from the smartphone.

Door opening from the smartphone (with a PIN code).


Manual capture of photos or videos.

Unlimited number of linked smartphones in the same kit.

Management of several WAY-FI kits from the same smartphone.


Entry panel camera view (2nd panel or cameras).

Note: WAY-FI and WAY products are not compatible with each other.



1401 1/W 7" WAY KIT

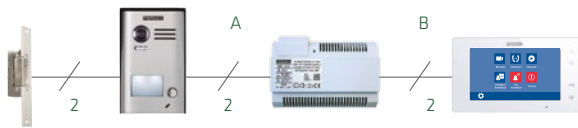
- 1416 1/W WAY panel with hood.
Panel dimensions with hood: 95x155x39.
- 1412 7" TFT Colour WAY monitor.
- 1410 WAY power supply.



1402 2/W 7" WAY KIT

- 1417 2/W WAY 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.

INSTALLATION DIAGRAM



DISTANCES TABLE

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

Same distances for the Way-Fi Kit.

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" WAY MONITOR-1
- 1413 7" WAY MONITOR-2
- 1416 WAY 1/W PANEL
- 1417 WAY 2/W PANEL
- 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



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

VDS VEO KITS



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.



x2

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.

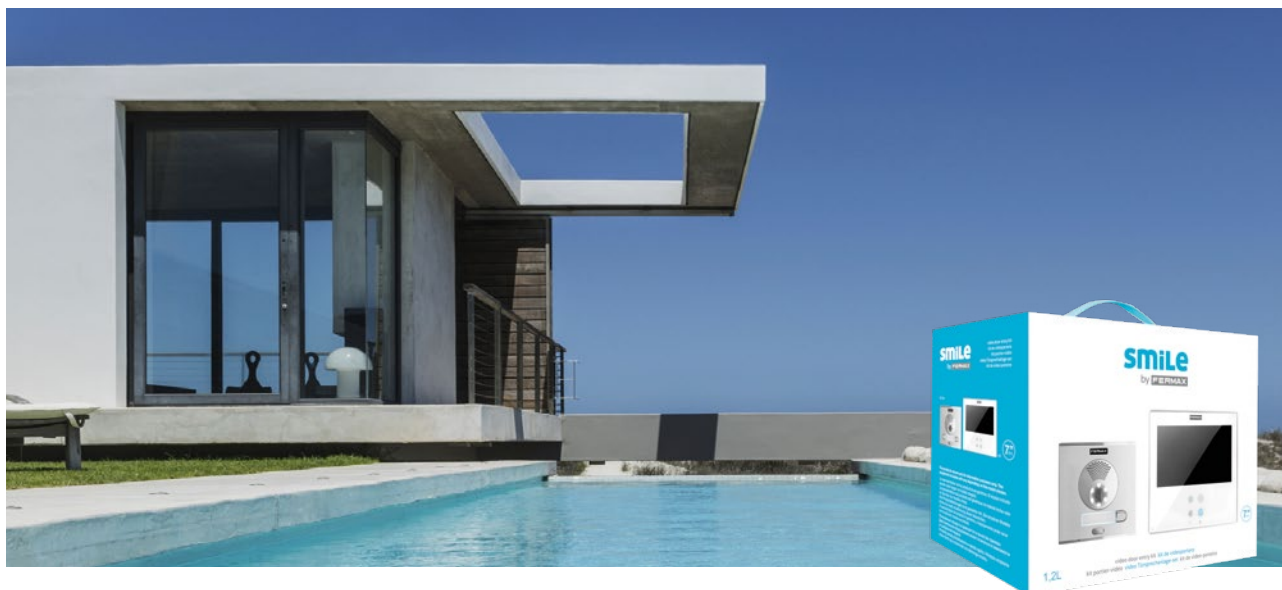
EXTENSIONS

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).

VDS SMILE TOUCH KIT



5074 1/W VDS 7" SMILE TOUCH KIT

- 48505 1/W COLOUR VDS CITY panel with flush box (ref.8948).
Panel S1: 130x128 / Flush box S1: 115x114x45.
- 6575 VDS COLOUR 7" SMILE TOUCH monitor.
- 6565 SMILE connector.
- 4810 Power supply. 18Vdc/1,5A-12Vac/1,5A. DIN10.

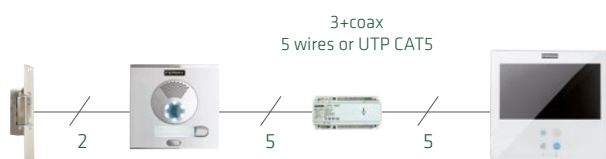
EXTENSIONS

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).

INSTALLATION DIAGRAM



DISTANCES TABLE

Check the Technical manual of the kit.

See [ACCESSORIES](#) page 74.



DUOX (pag.22)	DUOX CITY KITS	 cityline	 LOFT	4920 (1W) 4921 (2W)	2 wires	Flush mounted
	DUOX ILOFT CITY KITS	 cityline	 iLOFT	5077 (1W)	2 wires	Flush mounted
	DUOX ILOFT MARINE KIT	 Marine	 iLOFT	5076 (1W)	2 wires	Flush mounted
	DUOX MEMOPHONE KITS	 cityline	 LOFT Extra	4913 (1W)	2 wires	Flush mounted
4+N (pag.23)	4+N CITYLINE KITS	 cityline	 LOFT	4860 (1W) 4862(2W)	4+N	Flush mounted
	4+N CITY CLASSIC KITS	 cityline CLASSIC	 citymax	6201 (1W) 6202 (2W)	4+N	Flush mounted

 4+N WIRES (ANALOGUE)

 2 WIRES (DUOX)

<i>Integrated access control</i>	<i>No. of additional panels</i>	<i>No. of additional telephones</i>	<i>Conversation mode</i>	<i>No. of push buttons</i>	<i>Call melodies</i>	<i>Volume control</i>	<i>"Do not disturb" function</i>	<i>Additional functions</i>	<i>Auto-on</i>
No	9	2	With handset	1	5	Yes	Yes	No	Yes
No	9	2	Hands-free	3	5	Yes	Yes	Yes	Yes
No	9	2	Hands-free	3	5	Yes	Yes	Yes	No
Yes (keypad)	9	2	With handset	3	5	Yes	Yes	Yes	Yes
No	6	3	With handset	1	1	No	No	No	Yes
No	6	3	With handset	1	1	No	No	No	Yes

DUOX KITS FULL DIGITAL, 2 NON-POLARISED WIRES



4920 1/W DUOX CITY AUDIO KIT

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

4921 2/W DUOX CITY AUDIO KIT

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



4913 1/W DUOX MEMOPHONE KIT

- 4904 1/W DUOX MEMOPHONE CITY panel.
Panel S5: 130x246.
- 8855 Kit flush box S5: 115x233x45.
- 3422 LOFT EXTRA DUOX telephone.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A.DIN10.
- 3244 DUOX filter.



5077 1/W DUOX iLOFT AUDIO KIT

- 70704 1/W DUOX CITY panel.
Panel S1: 130x128.
- 8948 Kit flush box S1: 115x114x45.
- 3430 DUOX iLOFT telephone.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A.DIN10.
- 3244 DUOX filter.



5076 1/W DUOX iLOFT MARINE AUDIO KIT

- 54334 1/W DUOX MARINE panel.
Panel ST1: 150x180.
- 4641 Marine flush box ST1: 130x160x55.
- 3430 DUOX iLOFT telephone.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A.DIN10.
- 3244 DUOX filter.
- 2008 8 Call extension module

EXTENSIONS

Indoor: 2 additional telephones.
Outdoor: up to 9 additional panels.

INSTALLATION DIAGRAM



4+N KITS, THE CLASSICS OF FERMAX



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.
- 3393 4+N LOFT BASIC 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 LOFT BASIC 4+N telephones (ref.3393).



6201 1/W 4+N CITYMAX AUDIO KIT

- 8300 1/W CLASSIC panel and flush box (ref.8948).
Panel S1: 130x128 / 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).

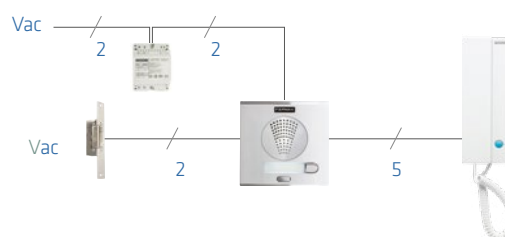
EXTENSIONS

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).

INSTALLATION DIAGRAM





CITYLINE KITS: BUILDINGS FROM 3 TO 24 APARTMENTS (4+N: 1 WIRE PER APART.)

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.3393) without additional power supply.
- Recommended door lock: 540N-S MAX (ref.30711).

ANALOGUE

NOTE: These kits include the Basic amplifier.
(See page 109 to find out the differences between Basic and Complete amplifier).

4863 3/W 4+N CITY AUDIO KIT



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

x3

4864 4/W 4+N CITY AUDIO KIT



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

x4

4866 6/W 4+N CITY AUDIO KIT



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

x6

4868 8/W 4+N CITY AUDIO KIT



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

x8

4865 10/W 4+N CITY AUDIO KIT



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

x10

4867 12/W 4+N CITY AUDIO KIT



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

x12

4869 14/W 4+N CITY AUDIO KIT



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

x14

4871 16/W 4+N CITY AUDIO KIT



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

x16

4874 18/W 4+N CITY AUDIO KIT



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

x18

4875 20/W 4+N CITY AUDIO KIT



- 4858 20/W 8AP212 CITY panel and flush box.
Panel S8: 130x389.
Flush box (ref.8857) S7: 115x328x45.
3393 LOFT 4+N LOFT telephone (20 units).
4802 Power supply 12Vac/1A. DIN4.

x20

4876 22/W 4+N CITY AUDIO KIT



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

x22

4877 24/W CITY AUDIO KIT



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

x24

CITY CLASSIC KITS: BUILDINGS FROM 3 TO 24 APART. (4+N: 1 WIRE PER HOME)

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.80447) without additional power supply.
- Recommended door lock: 540N-S MAX (ref.30711).

ANALOGUE

NOTE: These kits include the Basic amplifier. (See page 109 to find out the differences between Basic and Complete amplifier).

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.
- 80447 CITYMAX BASIC telephone (3 units).
- 4802 Power supply 12Vac/1A. DIN4.

x3

6204 4/W 4+N CITYMAX AUDIO KIT



- 8303 4/W CITY CLASSIC panel and flush box (flush box included ref.8949).
Panel S4: 130x199.
Flush box S4: 115x185x45.
- 80447 CITYMAX BASIC telephone (4 units).
- 4802 Power supply 12Vac/1A. DIN4.

x4

6206 6/W 4+N CITYMAX AUDIO KIT



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

x6

6208 8/W 4+N CITYMAX AUDIO KIT



- 8305 8/W CITY CLASSIC panel and flush box (flush box included ref.8949).
Panel S4: 130x199.
Flush box S4: 115x185x45.
- 80447 CITYMAX BASIC telephone (8 units).
- 4802 Power supply 12Vac/1A. DIN4.

x8

6210 10/W 4+N CITYMAX AUDIO KIT



- 8320 10/W CITY CLASSIC panel and flush box (Flush box included ref.8855).
Panel S5: 130x246.
Flush box S5: 115x233x45.
- 80447 CITYMAX BASIC telephone (10 units).
- 4802 Power supply 12Vac/1A. DIN4.

x10

6212 12/W 4+N CITYMAX AUDIO KIT



- 8321 12/W CITY CLASSIC panel and flush box (Flush box included ref.8855).
Panel S5: 130x246.
Flush box S5: 115x233x45.
- 80447 CITYMAX BASIC telephone (12 units).
- 4802 Power supply 12Vac/1A. DIN4.

x12

6214 14/W CITYMAX AUDIO KIT



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

x14

6216 16/W CITYMAX AUDIO KIT



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

x16

6218 18/W CITYMAX AUDIO KIT



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

x18

6220 20/W CITYMAX AUDIO KIT



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

x20

6222 22/W CITYMAX AUDIO KIT



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

x22

6224 24/W CITYMAX AUDIO KIT

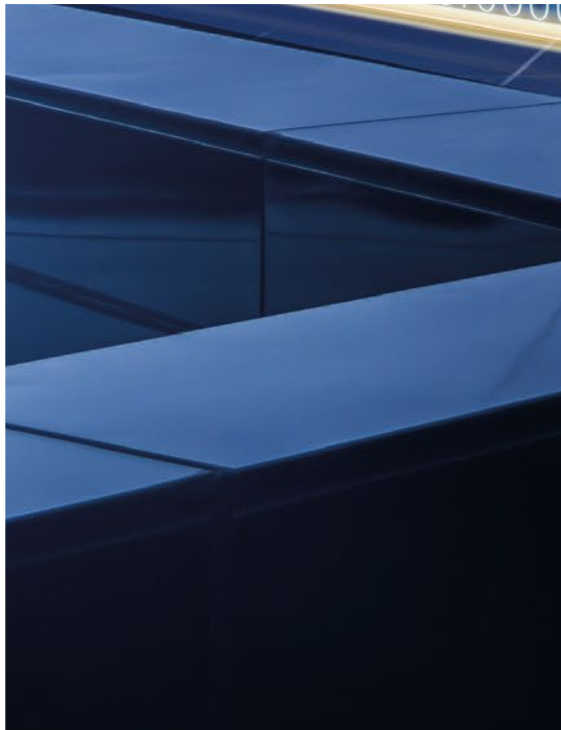
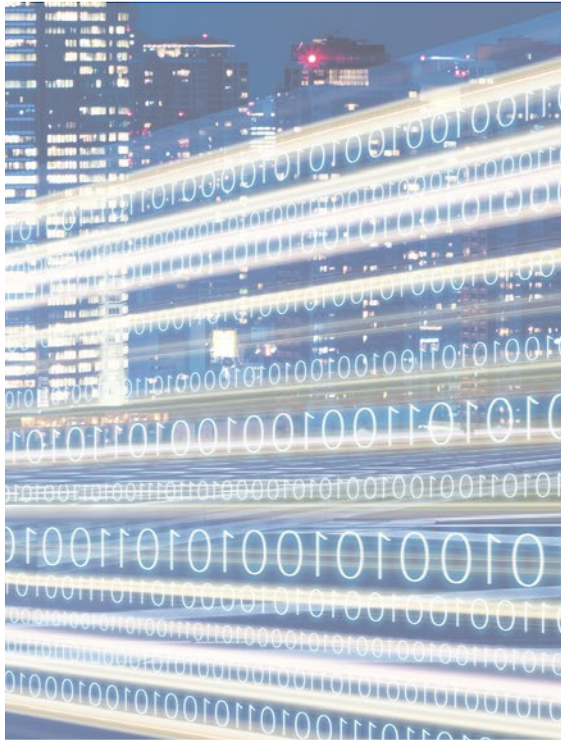
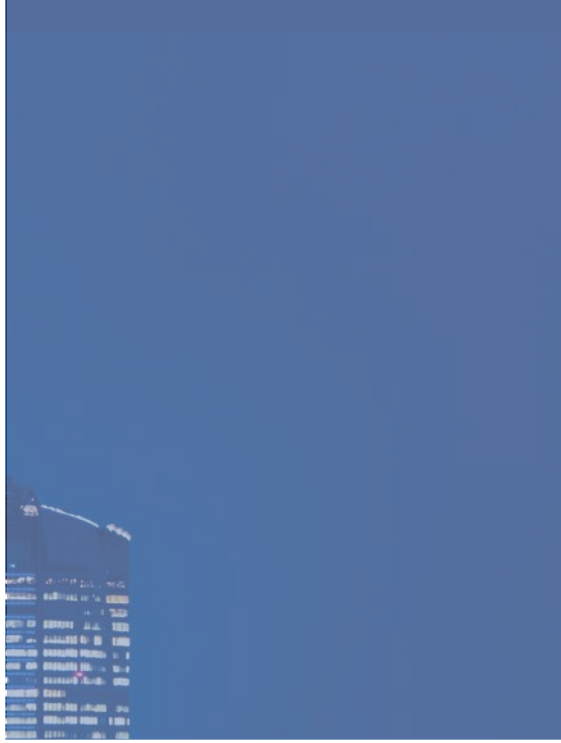
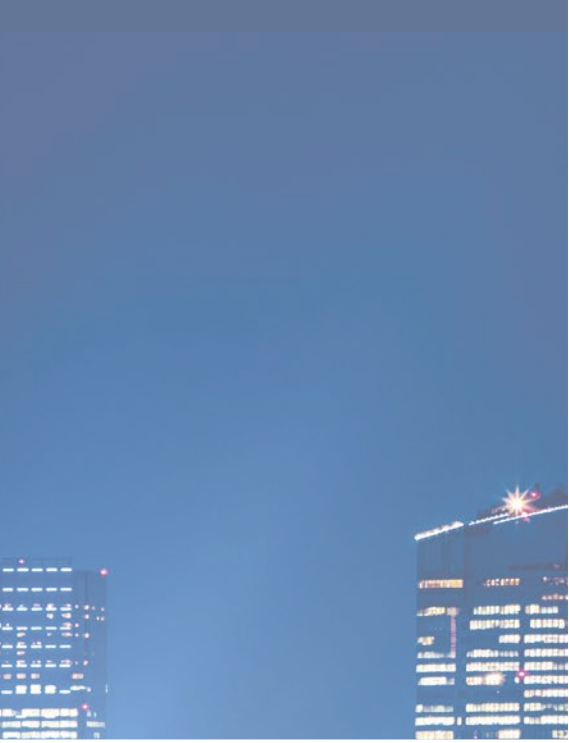


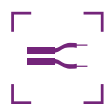
- 8741 24/W CITY CLASSIC panel.
Panel S8: 130x389.
- 8856 Flush box S8: 115x375x45.
- 80447 CITYMAX BASIC telephone (24 units).
- 4802 Power supply 12Vac/1A. DIN4.

x24

See ACCESSORIES page 70.

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





DUOX

SMART SYSTEM

Solutions for buildings

FERMAX

 2wires

DUOX

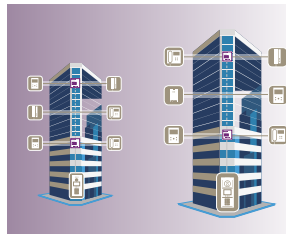


WIRING FLEXIBILITY

SIMPLICITY OF INSTALLATION

SCALABLE SYSTEM

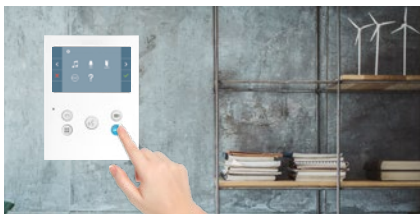
DIGITAL TRANSMISSION



EASY PROGRAMMING

IMAGE'S CAPTURE

CONNECTIVITY



SYSTEM FEATURES

COMPOSITION

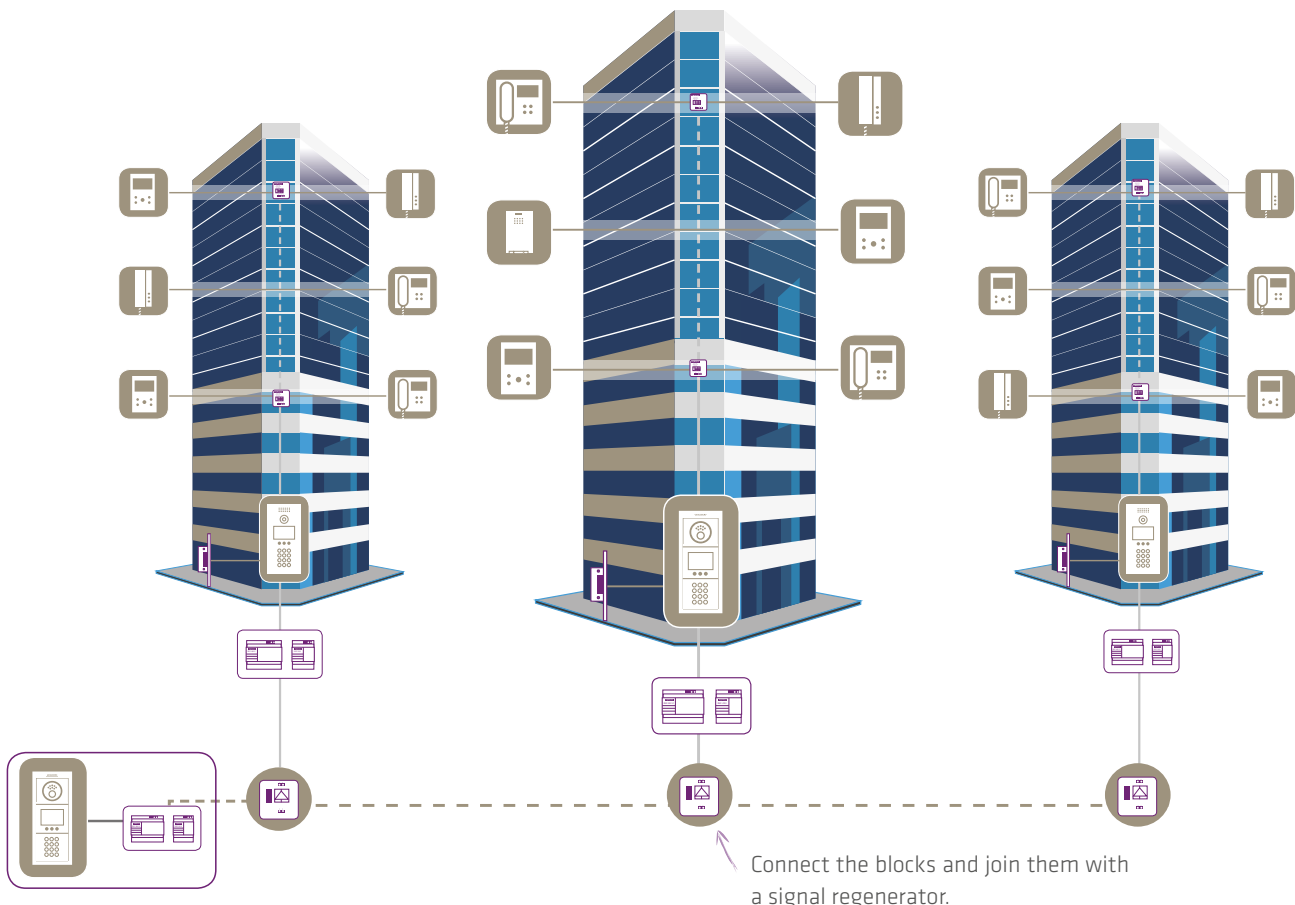
- A. Outdoor panel
- B. Power supply+filter
- C. Line adaptor
- D. Lock release
- E. Monitors and telephones
- F. Accessories: relay (optional)



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 installation is up to 50% faster** than other intercommunication systems.

Wiring	Flexible topology with 2 non-polarised wires.
Cables	<ul style="list-style-type: none"> - 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 extremes of the installation	3.000m
Maximum point to point distance without regeneration	500m
Connection of the indoor terminals	No need to install distributors or registers in the floors.
Conversation mode	Full-duplex in models with handset. Natural conversation in hands-free models.
Power supply	18Vdc
Addresses	Up to 6 digits
Maximum number of homes	999.999
Structure of the installation	General entrance (up to 10 panels and 10 guard units) 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 number of indoor terminals per home	3

LESS COMPONENTS REQUIRED FOR INSTALLATION. NO FLOOR DISTRIBUTORS. NO DECODERS. NO SWITCHERS



PANELS

DUOX

SKYLINE

MARINE

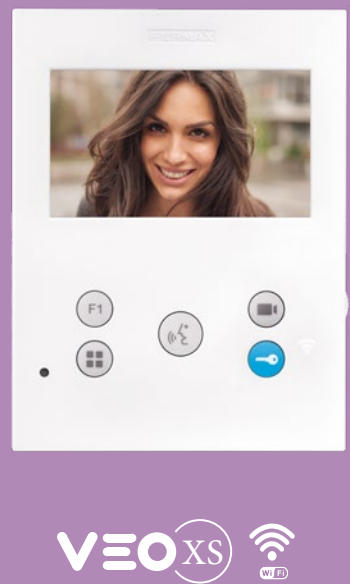
cityline



TELEPHONES



MONITORS



GUARD UNIT
VEO



1. OUTDOOR PANELS



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 wide angle **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 module is twice the size of V.

FRAMES



ref.7341
Frame 1V Series 1
130x128



ref.7332
Frame 2V Series 2
130x151



ref.7333
Frame 3V Series 4
130x199



ref.7334
Frame 4V Series 5
130x246



ref.7335
Frame 5V Series 6
130x294



ref.7336
Frame 6V Series 7
130x341



ref.7337
Frame 7V Series 8
130x389



ref.7338
Frame 8V Series 9
130x436,5

VIDEO AND AUDIO MODULES W



ref.7391
Video W



ref.7390
Audio W

DOUBLE PUSH BUTTONS



ref.7371
8 Push. 2x4 W



ref.7372
4 Push. 2x2 V



ref.7376
2 Push. 2x1 V

INFORMATION MODULES



ref.7445
Panoramic
cardholder W



ref.7444
Panoramic
cardholder V



ref.7448
OneToOne V



ref.7452
OneToOne V
with inductive loop

SINGLE PUSH BUTTONS



ref.7367
4 Push. 1x4 W



ref.7368
2 Push. 1x2 V



ref.7375
1 Push. 1x1 V

ACCESS CONTROL



ref.7438
Memokey
keypad W



ref.6936
Fingerprint W



ref.7440
Proximity V

DIGITAL MODULES



ref.7439
Direct keypad W



ref.7450
Graphic display W



ref.7457
Direct digital
keypad W

ACCESSORIES



ref.7443
Metallic
complement W



ref.7442
Metallic
complement V

SKYLINE MODULES

VIDEO AND AUDIO MODULES W



ref.7391



ref.7390

- Wide angle CMOS colour camera with 92° horizontal angle vision and 70° vertical angle vision.
- 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.

7391 DUOX VIDEO MODULE W

7390 DUOX AUDIO MODULE W

SINGLE AND DOUBLE PUSH BUTTON MODULES



ref.7371



ref.7367



ref.7372



ref.7368



ref.7376



ref.7375

- 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/VDS

7372 4 PUSH BUTTONS 2x2 V DUOX/VDS

7376 2 PUSH BUTTONS 2x1 V DUOX/VDS

7367 4 PUSH BUTTONS 1x4 W DUOX/VDS

7368 2 PUSH BUTTONS 1x2 V DUOX/VDS


7375 1 PUSH BUTTONS 1x1 V DUOX/VDS

ELECTRONIC DISPLAY MODULE

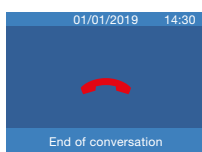


3,5" TFT
GRAPHIC DISPLAY

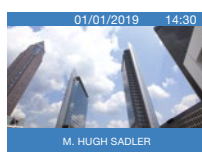
NOTE: It requires to install a DUOX DIGITAL KEYPAD (ref.7457).

The DISPLAY allows search through the list of residents and their allocated door codes (telephone directory type). It indicates the communication status. The keys <◀▶ allow to move through the menu. Press  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.



ONE-TO-ONE



PERSONALISED
IMAGES

7450 DUOX DIGITAL EXTRA DISPLAY W

KEYPAD MODULES



ref.7457
DIGITAL KEYPAD
(panel with display)



ref.7439
DIRECT KEYPAD
(panel without display)

Blue backlit 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 DIGITAL KEYPAD W

7439 DUOX/VDS/MDS DIRECT KEYPAD W

INFORMATIVE MODULES



ref.7448



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, VDS, MDS and 4+N.



ref.7452



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 and VDS.



CARDHOLDER W



CARDHOLDER V

7445 SKYLINE PANORAMIC CARDHOLDER W

7444 SKYLINE PANORAMIC CARDHOLDER V

Cardholders with lighting.

METALLIC COMPLEMENTS



METALLIC
COMPLEMENT W



METALLIC
COMPLEMENT V

7443 SKYLINE METALLIC COMPLEMENT W

7442 SKYLINE METALLIC COMPLEMENT V

STAND-ALONE ACCESS CONTROL MODULES



KEYPAD
100 CODES
ref.7438



FINGERPRINT
4.500 or 2.970 USERS
ref.6936



PROXIMITY
400 USERS
ref.7440



ref.4515



ref.23361
Customisable



ref.5231



ref.5291



ref.5259

7438 SKYLINE 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 SKYLINE 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 SKYLINE 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 FERMAX PROXIMITY CARD



2336 EM PROXIMITY CARD WITH MAGNETIC BAND



4515 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 high secured code.

5259 RF KEYSINGLE-MINI EMITTER

5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH

SKYLINE FRAMES



ref.7341
1V



ref.7332
2V



ref.7333
3V



ref.7334
4V



ref.7335
5V



ref.7336
6V



ref.7337
7V



ref.7338
8V

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

7341 SKYLINE FRAME 1V - S1 130x128

7332 SKYLINE FRAME 2V - S2 130x151

7333 SKYLINE FRAME 3V - S4 130x199

7334 SKYLINE FRAME 4V - S5 130x246

7335 SKYLINE FRAME 5V - S6 130x294

7336 SKYLINE FRAME 6V - S7 130x341

7337 SKYLINE FRAME 7V - S8 130x389

7338 SKYLINE FRAME 8V - S9 130x436,5

COMBINATION OF TWO OR MORE PANELS



8829 JOINING BOLTS SET

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

CONNECTION CABLES FOR SKYLINE PANELS



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

2541 DUOX/VDS CONNECTION CABLE (6W)

2542 DUOX/VDS CONNECTION CABLE (5W)

SKYLINE/CITYLINE ACCESSORIES



	FLUSH BOX	SURFACE BOX	HOOD		*MODULAR FRAME	CITY FRAME		ANGULAR COMPLEMENT
			SINGLE	DOUBLE		SINGLE	DOUBLE	
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
S3	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.

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



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.

Angle vision: Horizontal: 92° / Vertical: 70°.

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 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 70*).



ref.8829

8829 JOINING BOLTS SET

2441 16-CALL EXTENSION MODULES



ref.2441



ref.2008

2008 8-CALL EXTENSION MODULES

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



ref.70708 1 Push. ref.70008 2 Push. ref.70704 1 Push. ref.70004 2 Push.

SERIES 2 // Panel: 130x151 Flush box (ref.8852): 115x138x45



ref.70718 2 Push. ref.70018 4 Push. ref.70714 2 Push.

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



ref.70728 3 Push. ref.70724 3 Push.

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



ref.70748 4 Push. ref.70744 4 Push.

DIRECT CITYLINE PANEL



ref.7363 ref.7309

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

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

7363 DUOX DIRECT VIDEO CITY PANEL S5

7309 DIRECTORY PANEL S5

8855 FLUSH BOX S5

8829 JOINING BOLTS SET

DIGITAL CITYLINE PANEL



ref.7387 ref.7310

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

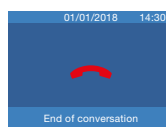
7387 DUOX DIGITAL EXTRA VIDEO CITY PANEL S7

7310 DIRECTORY CITY PANEL S7

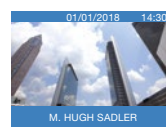
8857 FLUSH BOX S7

8829 JOINING BOLTS SET

See the functionalities of DISPLAY EXTRA at page 30.



ONE-TO-ONE



PERSONALISED IMAGES

SPECIAL CITYLINE PANELS

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

7321	SPECIAL CITYLINE PANEL S1
7322	SPECIAL CITYLINE PANEL S2
7323	SPECIAL CITYLINE PANEL S3
7324	SPECIAL CITYLINE PANEL S4
7325	SPECIAL CITYLINE PANEL S5
7326	SPECIAL CITYLINE PANEL S6
7327	SPECIAL CITYLINE PANEL S7

7328	SPECIAL CITYLINE PANEL S8
7329	SPECIAL CITYLINE PANEL S9

8999	SINGLE SPECIAL CITYLINE FRAME (1 PANEL)
89992	DOUBLE SPECIAL CITYLINE FRAME (2 PANELS)
89993	TRIPLE SPECIAL CITYLINE FRAME (3 PANELS)

NOTE: SPECIAL CITYLINE frames are made from aluminium.

INFORMATIVE MODULES AND COMPLEMENTS



ref.7448



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, VDS, MDS and 4+N.



ref.7452



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 and VDS.



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 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.

STAND-ALONE ACCESS CONTROL MODULES



PROXIMITY READER
400 USERS
ref.7440



ref.23361
Customisable
card



ref.4515



ref.5259



ref.5291



ref.5231

For more information see the section "Access Control".

7440 SKYLINE 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 FERMAX PROXIMITY CARD



2336 EM PROXIMITY CARD WITH MAGNETIC BAND



4515 PROXIMITY KEYRING



2306 PRIVATE PROGRAMMING KEYPAD

It allows to unregister lost identifiers.

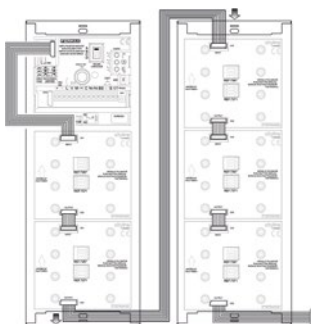
5291 RF BASIC-MINI RECEIVER

To be installed in audio/video door entry panels. Remote control opening with 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/VDS CONNECTION CABLE (6W)

2542 DUOX/VDS CONNECTION CABLE (5W)

CITYLINE ACCESSORIES

See ACCESSORIES page 35.



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 luminosity.

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. 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.

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



ref.54338
1 Push.

ref.54348
2 Push.

SERIES ST2 Panel: 150x240 Flush box (ref.4642): 130x220x55



ref.54358
2 Push.

ref.54368
3 Push.

ref.54378
4 Push.

FLUSH OR SURFACE BOX must be requested separately. The surface boxes include a hood.

ST1		
FLUSH BOX	SURFACE BOX (with hood)	HOOD
ref.4641 130x160x55	ref.4645 154x184x96	ref.4701

ST2		
FLUSH BOX	SURFACE BOX (with hood)	HOOD
ref.4642 130x220x55	ref.4646 154x244x96	ref.4702

Note: For other MARINE push button panels, see SPECIAL MARINE PANELS.

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 system.



ref.5526

ref.5471

5526 DUOX DIGITAL EXTRA 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

ST3 Panel dimensions: 150x360 (ST3)

FLUSH BOX	SURFACE BOX (with hood)	HOOD
ref.4643 130x340x55	ref.4647 154x364x96	ref.4703



ref.2289

2289 MARINE JOINING BOLTS SET FOR FLUSH BOX

2441 16-CALL EXTENSION MODULES

2008 8-CALL EXTENSION MODULES



ref.2441



ref.2008

MARINE ELITE PANELS



MARINE *elite*
by FERMAX

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 3020

RAL 5005

RAL 9018

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

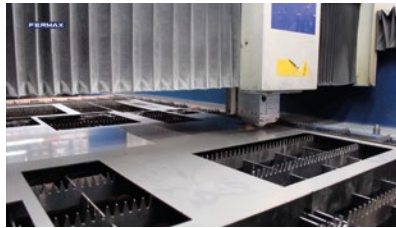


Check for availability in other colours.

MANUFACTURING PROCESS
OF MARINE PANELS



< Scan this QR code
to watch the video



3172 MARINE SPECIAL 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.

You will find special MARINE application forms at:

www.fermax.com/intl/en/pro/online-support/special-panels.html

4579 SPECIAL MARINE RAINHOOD FOR FLUSH BOX PANEL

4580 SPECIAL MARINE FLUSH BOX

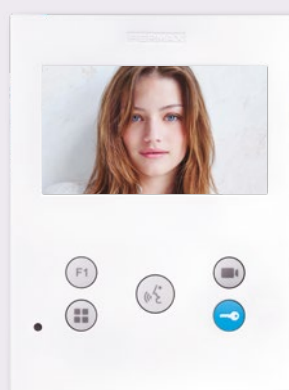
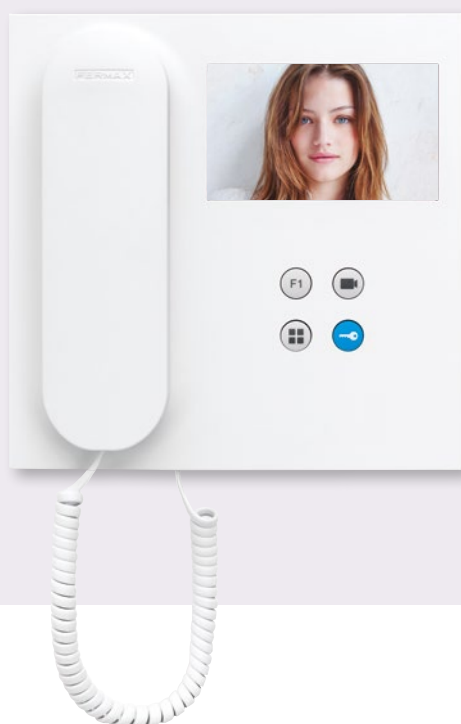
4581 SPECIAL MARINE SURFACE BOX (WITH HOOD)



2. MONITORS AND TELEPHONES

MONITORS

VEO AND VEO-XS. 4.3" (16:9) colour monitors made of high impact ABS plastic. They include automatic capture of images when a call is received (memory up to 150 photos). Adjustment of contrast, brightness, colour, audio volume, and ring tone volume, 'Do Not Disturb' function, door bell, date and time settings, touch-sensitive silicone push buttons to activate the door opener, access the OSD main menu on the screen, activation of the outdoor panel camera or any other configurable additional function such as activating second access, courtesy light, etc. Available in white colour and surface mounting.



9445 DUOX VEO MONITOR

Dimensions: 200x200x23mm (44mm with handset).

9448 DUOX VEO-XS MONITOR

Hands-free.
Dimensions: 125x165x21mm.

9455 DUOX VEO MONITOR WITH INDUCTIVE LOOP



9458 DUOX VEO-XS MONITOR WITH INDUCTIVE LOOP



9447 VEO/VEO-XS DUOX CONNECTOR

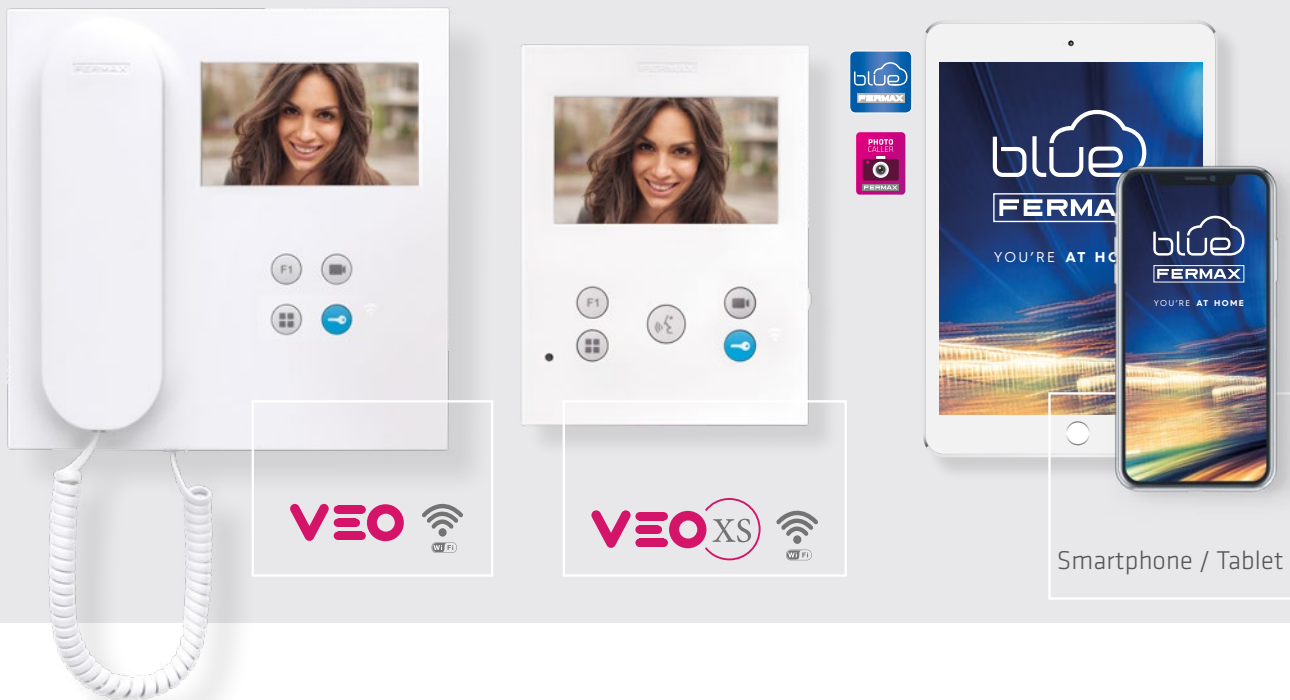


Support for mounting the VEO/VEO-XS DUOX monitor on the wall.



The **DUOX VEO and VEO-XS WiFi** monitors incorporate the functions of the video door phone to be managed from a smartphone or a tablet, in order to connect you to your home, wherever you are.

By connecting to the home WiFi network, DUOX WiFi monitors allow the call to be diverted from the video door entry system to a mobile phone or tablet. This provides more security, comfort and mobility to the homeowner, so it will be like you are at home!



9446 DUOX VEO WIFI MONITOR

Dimensions: 200x200x23mm (44mm with handset).

9449 DUOX VEO-XS WIFI MONITOR

Hands-free.
Dimensions: 125x165x21mm.

9459 DUOX VEO-XS WIFI MONITOR WITH INDUCTIVE LOOP



9447 VEO/VEO-XS DUOX CONNECTOR



Support for mounting the VEO/VEO-XS DUOX monitor on the wall.



TELEPHONES



LOFT



iLOFT

LOFT EXTRA and iLOFT telephones include the following features:

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

The LOFT EXTRA telephone includes:

- 2 buttons for additional functions: stair light switching, second door opening, etc.

LOFT: Made of high-impact ABS with a textured 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.

3421 DUOX LOFT BASIC PLUS TELEPHONE

With volume control.

3422 DUOX LOFT EXTRA TELEPHONE

iLOFT: Compact and extra slim. Made of ABS. iLOFT telephone allows communication with the outdoor panel in hands-free mode. The built-in digital audio technology ensures high-quality and interference-free communication. Dimensions: 90x146,5x20mm.

3430 DUOX iLOFT TELEPHONE

Hands-free.

ACCESSORIES



ref.9410

ref.9420



ref.5636

ref.3749



ref.3380

ref.3388

ref.3389

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

9410 VEO MONITOR DESKTOP SUPPORT

9420 VEO-XS MONITOR DESKTOP SUPPORT

3749 LOFT TELEPHONE DESKTOP SUPPORT

5636 iLOFT TELEPHONE DESKTOP SUPPORT

3380 LOFT TELEPHONE DECORATIVE FRAME. 200X240

FERMAX Decorative Frames are aesthetic complements. Useful in retrofitting applications or replacement of previous equipment.

3388 UNIVERSAL DECORATIVE FRAME. 120X240

3389 UNIVERSAL LARGE DECORATIVE FRAME. 210X240

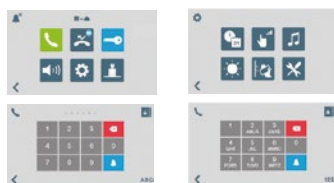
3441 LOFT HANDSET WITH INDUCTIVE LOOP

3443 VEO HANDSET WITH INDUCTIVE LOOP

3. GUARD UNIT



ref.9413
Dimensions: 200x200mm
Desktop support included.



9413 AUDIO DUOX GUARD UNIT

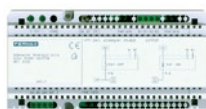
DUOX Audio Guard Unit has a multi-functional 4,3" capacitive touchscreen and quick function access buttons for easy convenient management. Its unique handset design incorporating a magnet enables the user to put it back into position correctly. The visitors image cannot be shown in the screen of the guard unit. It includes a stainless steel desktop support. It allows a surface installation.

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 guard unit and in the apartment.
- 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 are protected in case of short circuits, charge and signal reflections mutually. Maximum 5 units in cascade.



ref.3253



ref.3256



ref.3259

3253 2/W DUOX REGENERATOR

With 1 input and 2 outputs, this regenerator allows for two risers and isolate them from each other. Power supply is required but a filter is not. Each output can support up to 24 indoor terminals (with a total of 48 indoor terminals using a 4830 power supply and 1mm2 cable).

3256 1/W DUOX REGENERATOR

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

3259 1/W DUOX MULTICHANNEL REGENERATOR

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

	3253	3256	3259
Number of inputs	1	1	1
Number of outputs	2	1	1
Regenerates	YES	YES	YES
Isolates	YES	YES	YES
Incorporates power supply filter	YES	NO	NO
Conversation channel per additional riser	NO	NO	YES

5. POWER SUPPLY / ADAPTORS



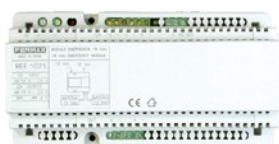
ref.3255



ref.4830



ref.3244



ref.1021



ref.4802



ref.4800

3255 DUOX LINE ADAPTOR

Necessary at the beginning and the end of every riser.

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

DISTRIBUTION 4x FLOOR

	VEO/ VEO-XS	VEO WIFI/ VEO-XS WIFI	TELEPHONES
1mm ²	36	20	72
0,5mm ²	32	16	48
0,2mm ²	20	12	32

No. of monitors and telephones per power supply depending on model and cable.

3244 DUOX FILTER

Install together with the power supply.

1021 EMERGENCY MODULE 18Vdc

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

2070 BATTERY 12V/2,2A

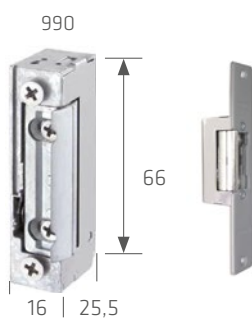
4802 POWER SUPPLY DIN4 230VAC 12VAC/1A

12 Vac for altern current lock release.

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

12 Vac for altern current lock release.

6. DOOR LOCK RELEASE



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).

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

7. ACCESSORIES

ADDITIONAL FUNCTIONS

3257 DUOX RELAY MODULE



ref.3257

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

VIDEO ACCESSORIES

9444 DUOX CAMERA INTERFACE



ref.9444

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

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

AUTO-ON FUNCTION with interface installed.

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 0 or Camera 0 on the block (one or the other).
2. Panel 1 or Camera 1 on the block (one or the other).
3. Panel 0 or Camera 0 on the General Entrance (one or the other).



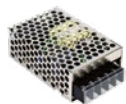
ref.9980

9980 PERIPHERAL CCTV DOME CAMERA



ref.9981

9981 PERIPHERAL CCTV BULLET CAMERA



ref.9982

9982 POWER SUPPLY PERIPHERAL CCTV CAMERA



ref.9983

9983 BALUNS PAIR PERIPHERAL CCTV CAMERA



ref.5925

9984 POWER ADAPTOR PERIPHERAL CCTV CAMERA

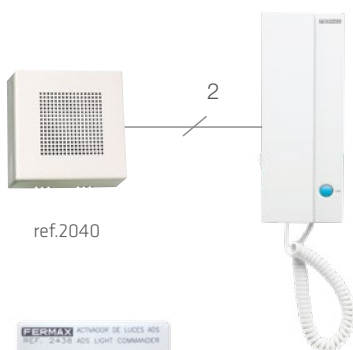
CABLES

5925 DUOX PARALLEL CABLE. 2x1mm²

Cables are supplied in 100 metres rolls.

59255 DUOX PARALLEL CABLE. 2x1mm²

Cables are supplied in 500 metres rolls.



ref.2040

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.



ref.2438

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.

FERMAX

CONNECTIVITY FOR ALL

DUOX WiFi Monitors with call divert to smartphones

DUOX

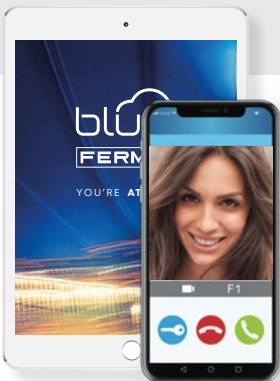
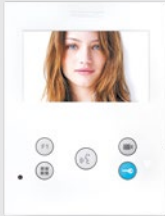
ANSWERING VIDEO
DOOR ENTRY SYSTEM
CALLS FROM A
SMARTPHONE?

That way your house
will never seem
empty.

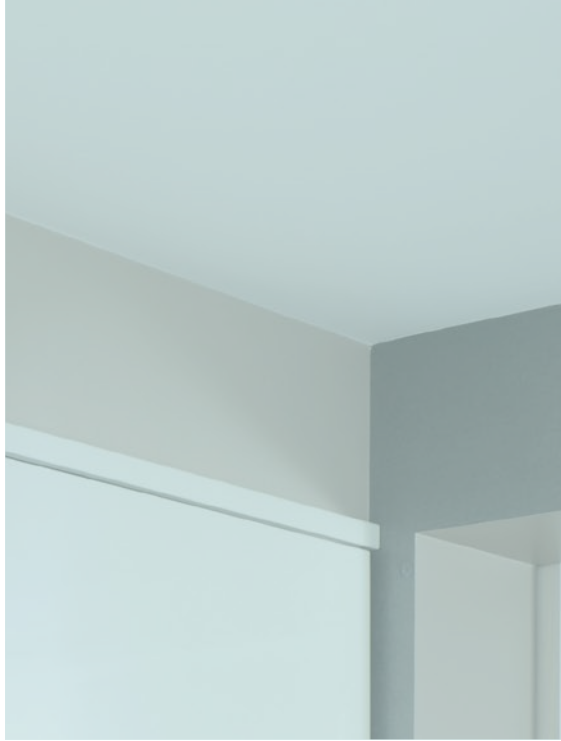


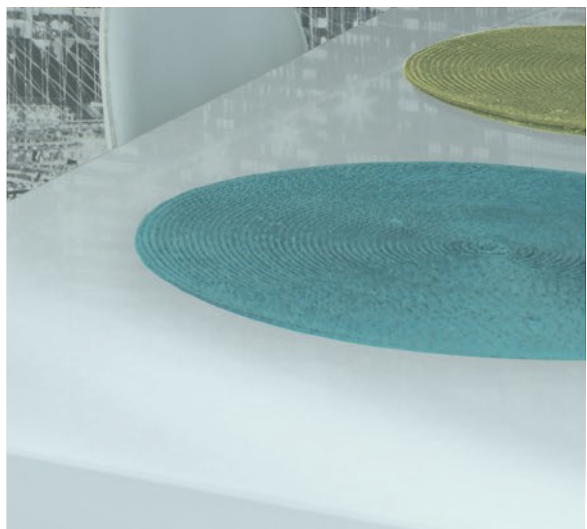
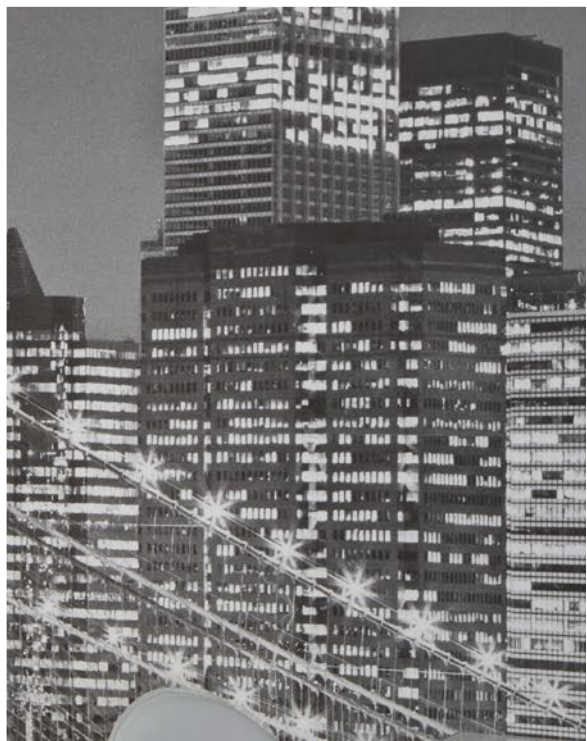
OPENING
THE FRONT DOOR
WITH A MOBILE
PHONE?

When the courier
calls and you're
not home.



I
WANT IT





[IP]

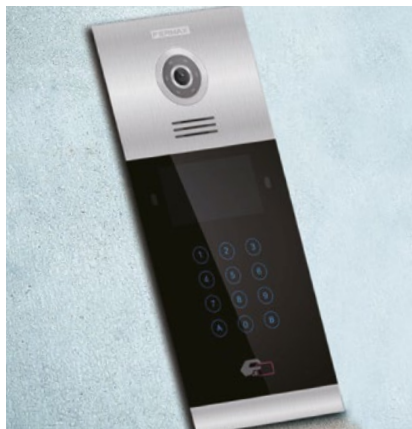
MEET

Solutions for buildings

FERMAX



FERMAX MEET SYSTEM IS A 100% IP SYSTEM BASED ON PEER-TO-PEER INFRASTRUCTURE, HIGHLY EFFICIENT, FLEXIBLE AND WITH STRONG ADAPTABILITY.



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 **two outdoor MILO panels with touch capacitive keypad or robust mechanical keypad**, two MIO and WIT monitors (7" and 10") for indoors and a Guard Unit.

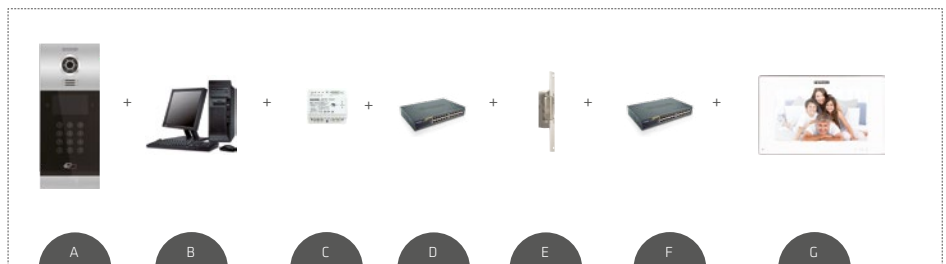
To ensure the safety of the community, MEET offers a **great integration with CCTV cameras**.

In addition, **lift control** function provides maximum comfort to users.

SYSTEM FEATURES

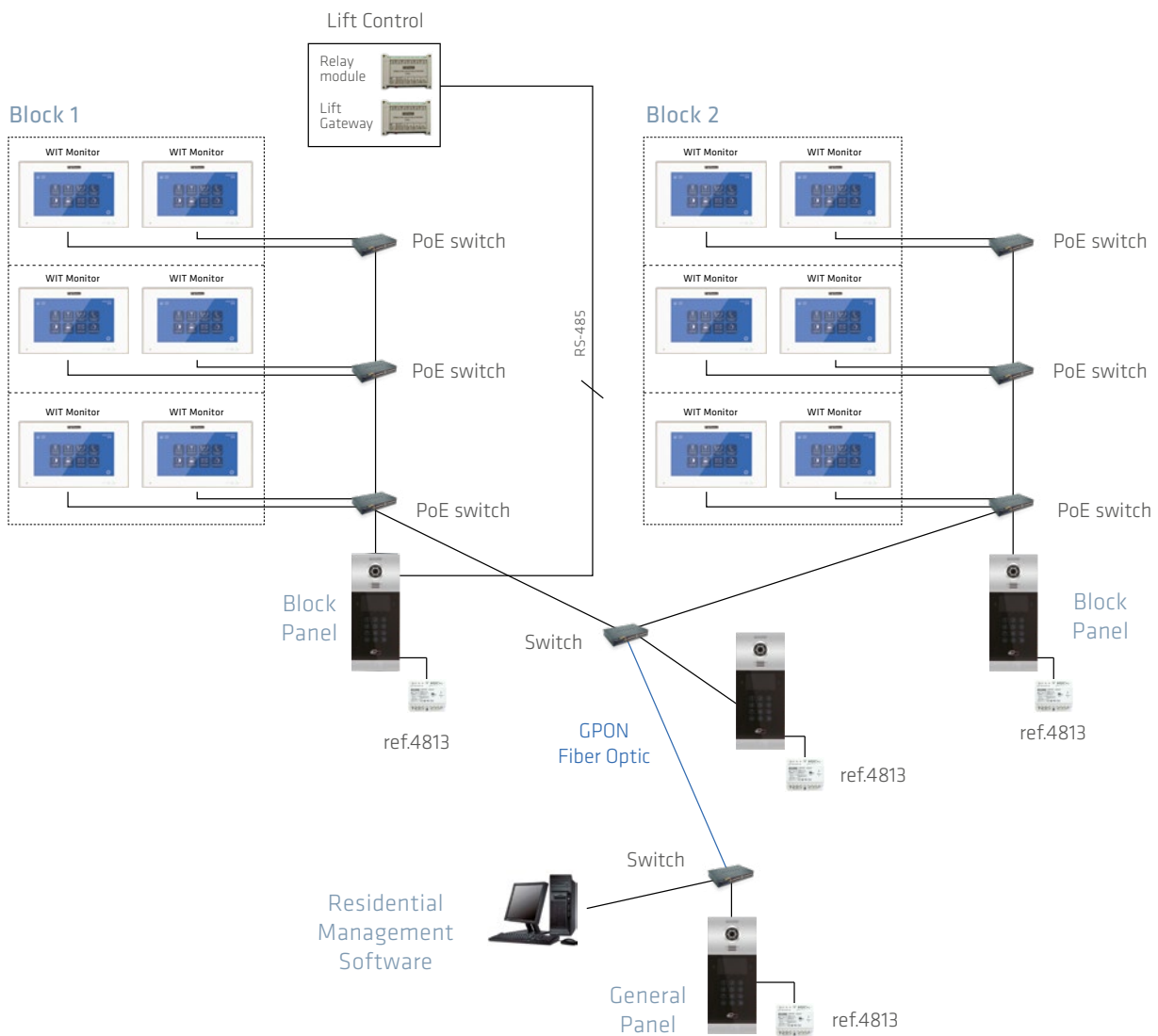
COMPOSITION

- A. Outdoor panel
- B. PC
- C. Power supply
- D. Switch
- E. Door lock (Vdc)
- F. Switch (per floor)
- G. Monitors per apartment



Wiring	UTP CAT5. (non PoE devices like MIO and MILO need 2 additional wires)
Maximum number of apartments	9899 per block
Maximum number of outdoor panels	99 per block
Maximum number of blocks	999
Max. Number of Guard Units	99 Master Guard units with 5 Slave Guard units each. Total 495 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
Server required	No
Access Control integration	Yes. MIFARE readers integrated in digital panels as standard. Wiegand input on digital panels.
Face 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. Video door bell.

MEET DIAGRAM



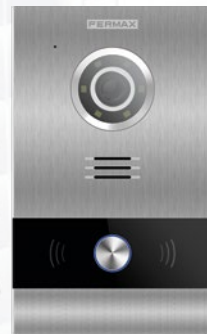
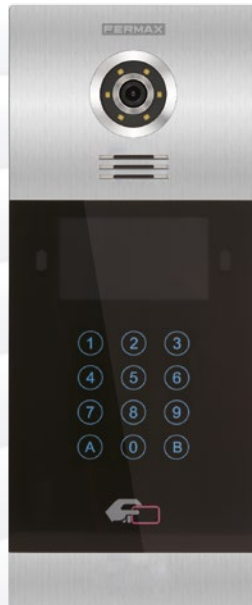
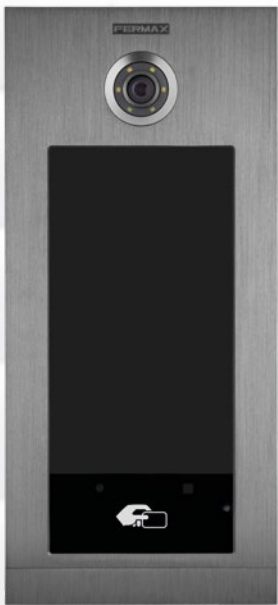


IP MEET

PANELS

KIN

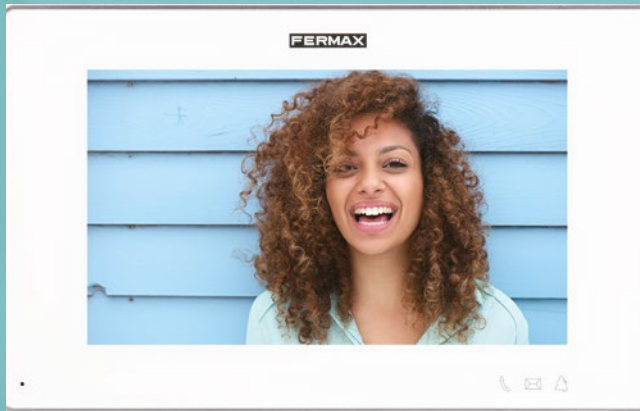
MILO



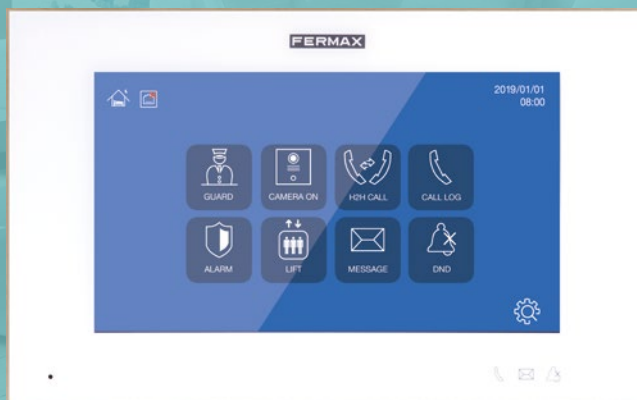
GUARD UNIT



MONITORS



mio



wit

1. OUTDOOR PANELS

MEET IP



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.

TOUCH SCREEN

Its 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

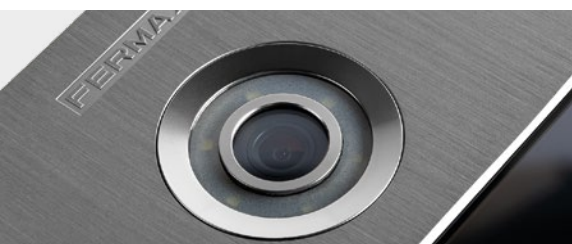
Thanks to its display it is possible to call through alphanumeric codes from A to H, such as 7B or 121F.

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.

FACE RECOGNITION

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

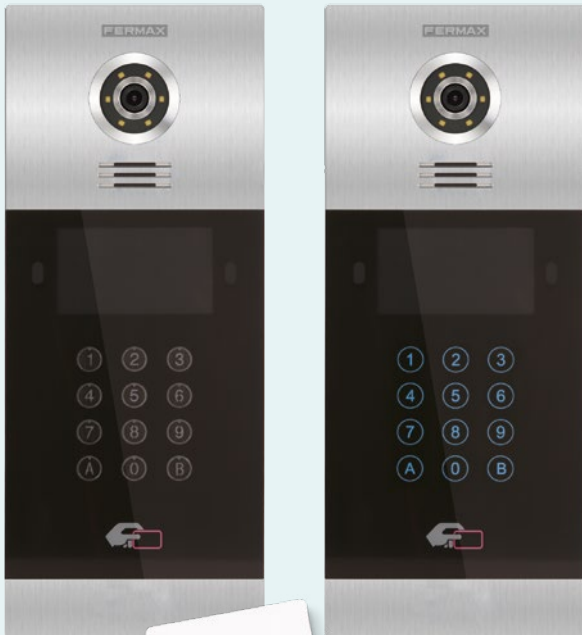


1445 KIN GRAPHITE GREY PANEL

Panel: 185X405X50

1449 KIN FLUSH BOX PANEL

Panel: 170X382X58



IP Protection 54
Panel: 155(W) x 380(H) x 48(D)mm

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.

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.

Call indications.

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

HD COLOUR CAMERA OF 1.2 MPX

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

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

HIGH PROTECTION DIGITAL KEYPAD

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

FACE RECOGNITION

It is possible to open the door by face recognition, enabling the opening to the residents in the community and increasing the safety and comfort of the system.

*12Vdc Power Supply required.



ref.9531



ref.9532



ref.9533



ref.9534



ref.9535

9531 DIGITAL VIDEO MILO PANEL

9532 DIGITAL VIDEO TOUCH MILO PANEL

Panel: 155 x 380 x 48 mm. 1,2 Mpx

9542 MILO PANEL FLUSH BOX - L

Flush box: 143 x 357 x 58 mm

9533 1/W VIDEO MILO PANEL

9534 1/W VIDEO MILO PANEL (+PROXIMITY)

Panel: 118 x 183 x 49 mm. 1 Mpx.

9535 MEET PROXIMITY READER

Panel: 118 x 183 x 49 mm.

9543 MEET PANEL FLUSH BOX - S

Flush box: 105 x 172,5 x 63 mm

9518 1/L SURFACE BOX MILO PANEL

2. MONITORS

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.

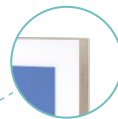
WIT touchscreen interface lets the user to answer calls and to manage missed calls and view the captured images, read the messages received by the administrator, visualize the video surveillance cameras, activate external relays, notify alarms in the monitor and the guard unit, and even control the home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



14701 7" WIT MONITOR PoE WHITE

Dimensions: 212x132,5x20mm

14811 10" WIT MONITOR HOME AUTOMATION PoE WHITE

Dimensions: 270x168x20mm

1489 10" WIT MONITOR FLUSH BOX



9541 MIO/WIT MONITOR CONNECTOR



Mounting support for the MIO/WIT monitor on the wall. It includes monitor connection cables.

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

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

An advanced management monitor, with hands-free communication, digital audio quality and high definition video. Its 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).

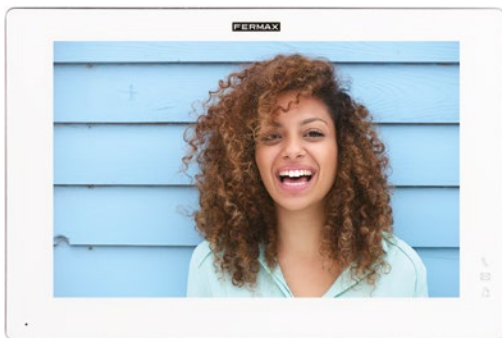
7" mio



952201 7" MIO WHITE MONITOR

Dimensions: 210x130x20mm
Ask for Black, Silver and Gold colours availability.

10" mio



952701 10" MIO WHITE MONITOR

Dimensions: 270x168x20mm
Ask for Black, Silver and Gold colours availability.

9541 MIO/WIT MONITOR CONNECTOR



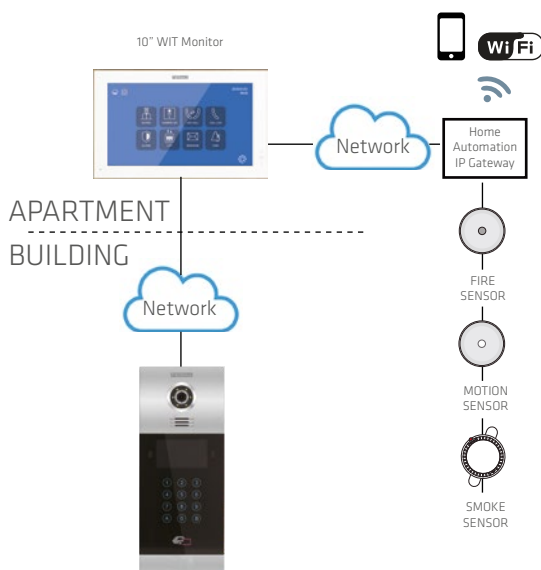
Mounting support for the MIO/WIT monitor on the wall. Includes monitor connection cables.

MONITOR WIT AND MIO FEATURES

- Available in 7 or 10 inches.
- MIO and WIT are not only distinguished by their outer elegant simplicity, but also by the most user friendly menu oriented to residential communication.
- 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.



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.

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.

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.

* Internet access with enough upload bandwidth is necessary based on the network traffic generated by the outdoor panels.

5. GUARD UNIT

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



Dimensions: 311 x203 mm

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 and control the status of the condominium receiving alarms.

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
- RSTP IP LINK camera compatible
- Audio conversation records

9539 MEET GUARD UNIT

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 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: 64.

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: 64.

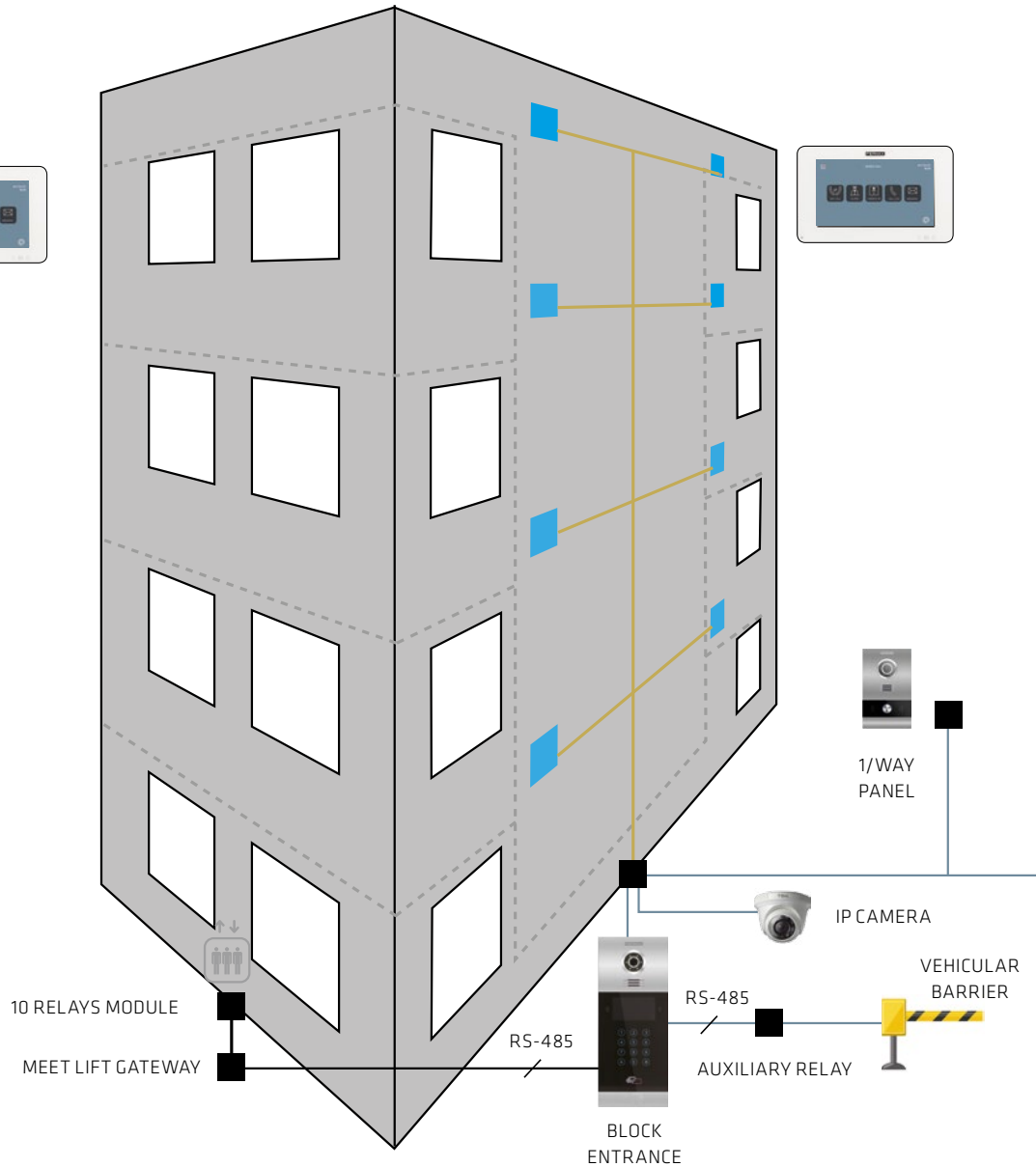
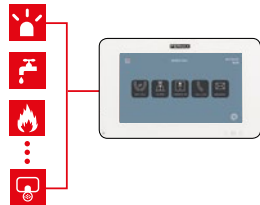
The administrator can access to a complete alarm record using the management software.

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. MEET MANAGEMENT SOFTWARE AND LIFT CONTROL

7 ALARM DETECTION ZONES + TAMPER



WIRING

- CAT5 CABLE
- FIBER OPTICS*
- ALARM
- LIFT

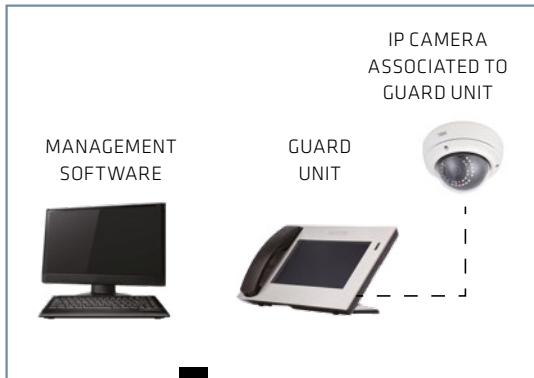
* UTP TO FO CONVERTER REQUIRED.

MILO panel and MIO monitor need 12Vdc power supply.



TECHNICAL CAPABILITIES

- 1** Virtually unlimited number of units can run under one 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.



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.

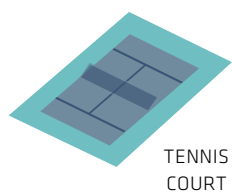
GRAPHICAL USER INTERFACE

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.

*Third party integration is required.



TENNIS COURT



MAIN ENTRANCE



ref.52750



ref.52740



ref.1616



ref.9538



ref.9540

9538 MEET PC DESKTOP PROXIMITY READER

9540 MEET MANAGEMENT SOFTWARE

9545 MEET LIFT CONTROL GATEWAY

1616 10 RELAY MODULE

1490 EXTERNAL DOORLOCK RELAY

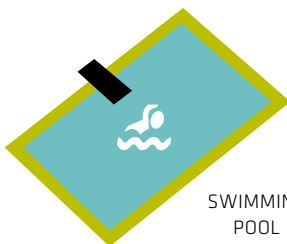
1491 4 RELAY PANEL MODULE

52750 PROXIMITY CARD MIFARE FERMAX

52740 PROXIMITY KEYRING FERMAX MIFARE



IP ACCESS CONTROL



SWIMMING POOL

5. POWER SUPPLY AND SWITCHER



ref.4813



ref.1498



ref.1586



ref.1587

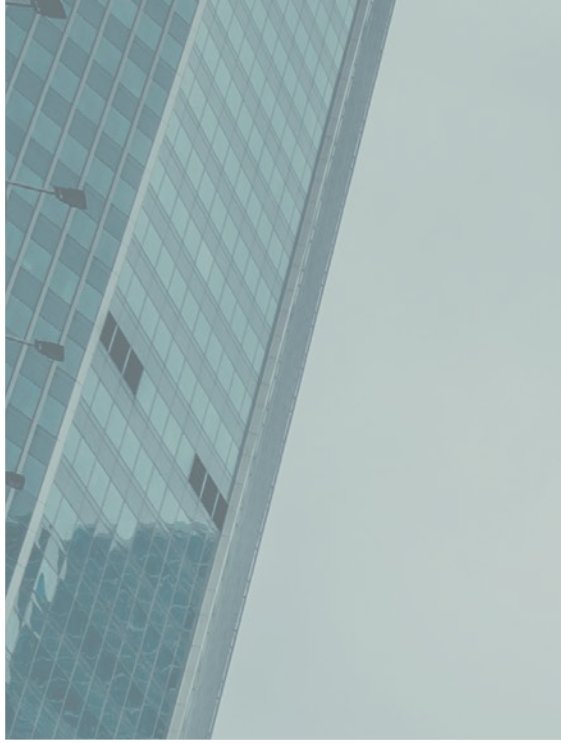
4813 POWER SUPPLY DIN6 100-240VAC/12VDC-2A

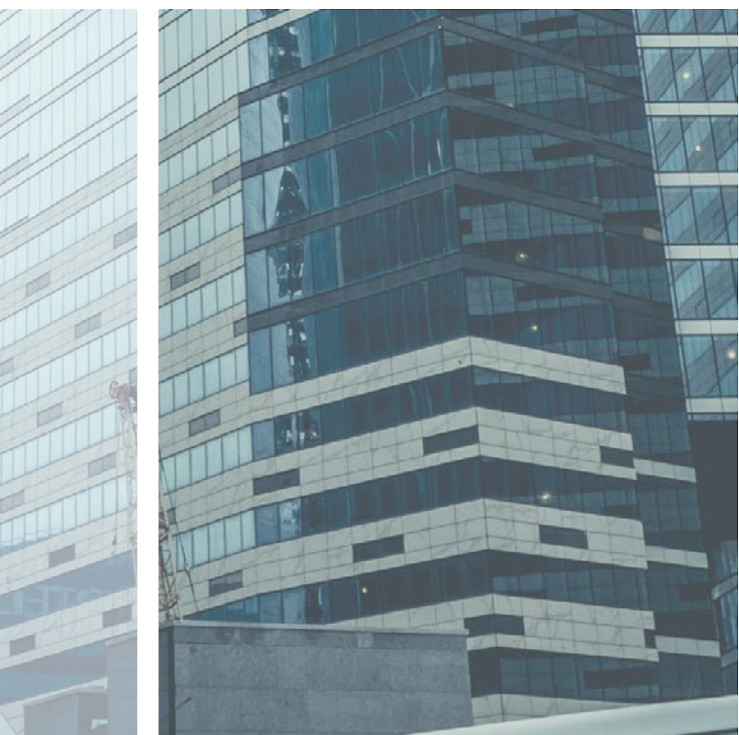
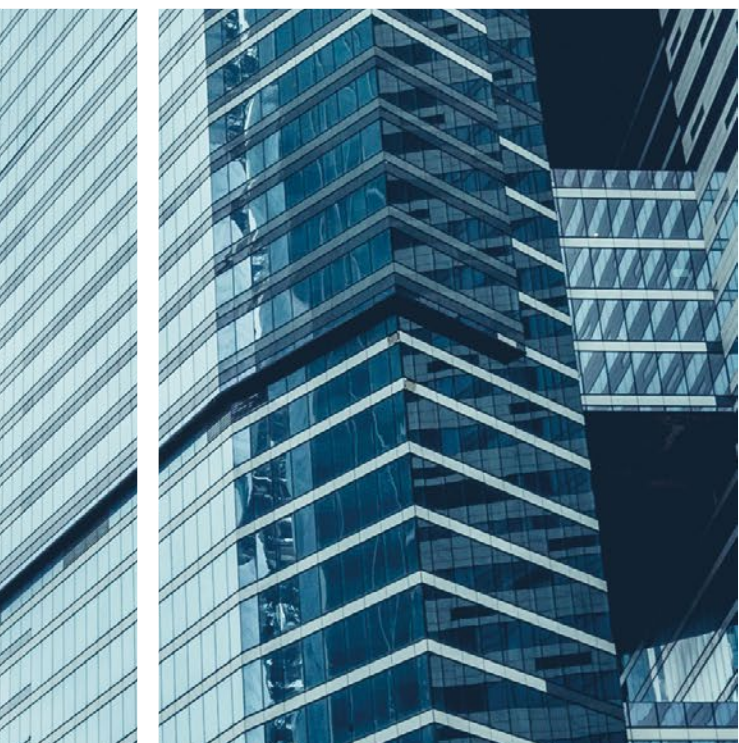
1 PSU per each 4 devices is required. It is recommended that each outdoor panel and GU has its own power supply for installation convenience.

1586 4 PORTS SWITCH PoE

1587 8 PORTS SWITCH PoE

1498 12Vdc PoE SPLITTER





VDS

Solutions for buildings

FERMAX



**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.



SYSTEM FEATURES

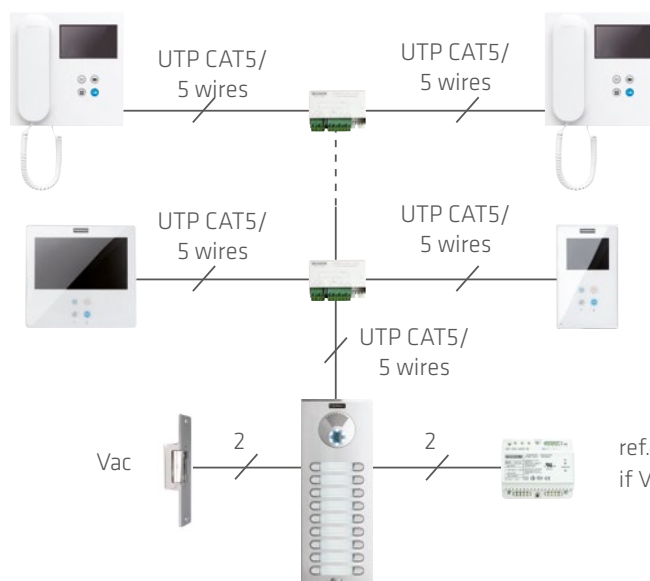
COMPOSITION

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



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.

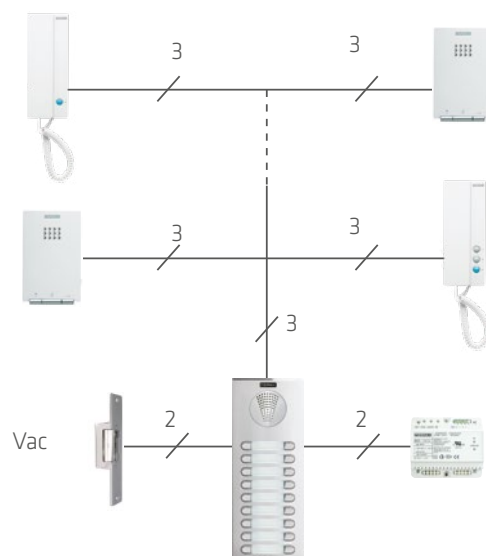
VIDEO DIAGRAM



*It is possible to use 3 wires+coax. See specific technical information.

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

AUDIO DIAGRAM



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

PANELS



cityline

SKYLINE

MARINE

VDS



MONITORS



smile

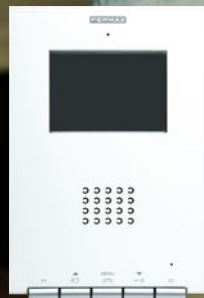


VEO

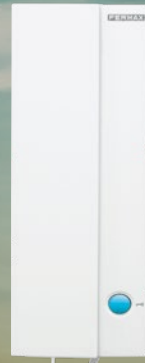
TELEPHONES



iLOFT



iLOFT PURE



LOFT



iLOFT





1. OUTDOOR PANELS

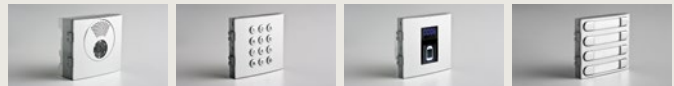


SKYLINE PANEL

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 the modules can easily be fitted.

Modules come in 2 sizes: V and W (W is twice the size of V).

FRAMES



ref.7341
Frame 1V Series 1
130x128



ref.7332
Frame 2V Series 2
130x151



ref.7333
Frame 3V Series 4
130x199



ref.7334
Frame 4V Series 5
130x246



ref.7335
Frame 5V Series 6
130x294



ref.7336
Frame 6V Series 7
130x341



ref.7337
Frame 7V Series 8
130x389



ref.7338
Frame 8V Series 9
130x436,5

VIDEO AND AUDIO MODULES W



ref.7421
Video W



ref.7415
Audio W

DOUBLE PUSH BUTTONS



ref.7371
8 Push. 2x4 W



ref.7372
4 Push. 2x2 V



ref.7376
2 Push. 2x1 V

INFORMATION MODULES



ref.7445
Panoramic
cardholder W



ref.7444
Panoramic
cardholder V



ref.7448
OneToOne V



ref.7452
OneToOne V
with inductive loop

SINGLE PUSH BUTTONS



ref.7367
4 Push. 1x4 W



ref.7368
2 Push. 1x2 V



ref.7375
1 Push. 1x1 V

ACCESS CONTROL



ref.7438
Memokey
keypad W



ref.6936
Fingerprint W



ref.7440
Proximity V

DIGITAL PUSH BUTTONS



ref.7439
Direct keypad W
(panel without display)



ref.7449
Display W



ref.7447
Digital keypad W
(panel with display)



ref.7443
Metallic
complement W



ref.7442
Metallic
complement V

Panel accessories:
go to [page 74](#).



COMBINATION OF TWO OR MORE PANELS



8829 JOINING BOLTS SET FOR FLUSH BOXES

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

CONNECTION CABLES FOR SKYLINE PANELS

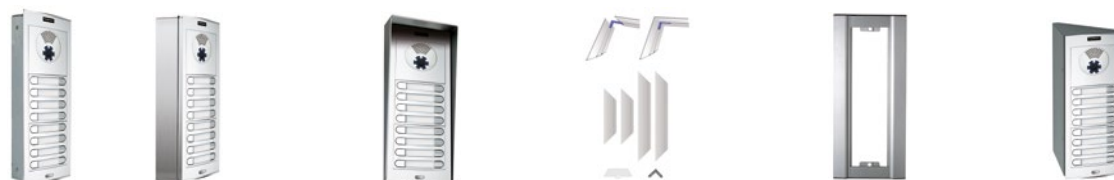


A cable per each additional frame is required to connect the push button modules between both frames. Dimensions 70cm.

2541 DUOX/VDS CONNECTION CABLE (6W)

2542 DUOX/VDS CONNECTION CABLE (5W)

SKYLINE/CITYLINE ACCESSORIES



	FLUSH BOX	SURFACE BOX	HOOD		*MODULAR FRAME	CITY FRAME		ANGULAR COMPLEMENT
			SINGLE	DOUBLE		SINGLE	DOUBLE	
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
S3 <small>CITYLINE only</small>	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.

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

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.



To see general characteristics of the CITYLINE panel consult page. 154 in the DUOX section.

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 70).



ref.8829



ref.2441



ref.2008

8829 JOINING BOLTS SET

2441 16-CALL EXTENSION MODULES

2008 8 CALL EXTENSION MODULE

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.

SERIES 2 // Panel: 130x151 Flush box (ref.8852): 115x138x45



ref.70717
2 Push.

ref.70017
4 Push.

ref.70713
2 Push.

ref.70013
4 Push.

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



ref.70727
3 Push.

ref.70723
3 Push.

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



ref.70747
4 Push.

ref.70743
4 Push.

DIRECT CITYLINE PANELS



ref.7305

ref.7309

Panel dimensions:
130x246 (S5)

Flush box dimensions:
115x233x45 (S5)

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



ref.7299

ref.7310

Panel dimensions:
130x341 (S7)

Flush box dimensions:
115x328x45 (S7)

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 CITYLINE PANELS AND FRAMES

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

7322 SPECIAL CITYLINE PANEL S2

7323 SPECIAL CITYLINE PANEL S3

7324 SPECIAL CITYLINE PANEL S4

7325 SPECIAL CITYLINE PANEL S5

7326 SPECIAL CITYLINE PANEL S6

7327 SPECIAL CITYLINE PANEL S7

7328 SPECIAL CITYLINE PANEL S8

7329 SPECIAL CITYLINE PANEL S9

8999 SINGLE SPECIAL CITYLINE FRAME (1 PANEL)

89992 DOUBLE SPECIAL CITYLINE FRAME (2 PANELS)

89993 TRIPLE SPECIAL CITYLINE FRAME (3 PANELS)

Panel accessories: go to *page 74*.

NOTE: special CITYLINE frames are made from aluminium.



Fermax for Real



Download our free App "Fermax for Real" for mobile devices, and you will be able to see, with Augmented Reality, how our products would look in your home.

Available at



FERMAX



MARINE PANEL

MARINE is the FERMAX vandal-proof door entry panel made in AISI 316L stainless steel (2,5mm-thick). IP54 IK09.

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

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.

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.

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



ref.54333
1 Push.

ref.54343
2 Push.

ref.54337
1 Push.

ref.54347
2 Push.

SERIES ST2 Panel: 150x240 Flush box (ref.4642): 130x220x55



ref.54357
2 Push.

ref.54367
3 Push.

ref.54377
4 Push.

FLUSH OR SURFACE BOX must be requested separately. The surface boxes include a hood.

ST1		
FLUSH BOX	SURFACE BOX (with hood)	HOOD
ref.4641 130x160x55	ref.4645 154x184x96	ref.4701

ST2		
FLUSH BOX	SURFACE BOX (with hood)	HOOD
ref.4642 130x220x55	ref.4646 154x244x96	ref.4702

Note: For other MARINE push button panels see SPECIAL MARINE PANELS.



ref.2289

2289 MARINE JOINING BOLTS SET FOR FLUSH BOXES



ref.2441

2441 16-CALL EXTENSION MODULES



ref.2008

2008 8-CALL EXTENSION MODULES

DIGITAL MARINE PANEL



ref.5468

ref.5471

- 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 BOXES

ST3 Panel dimensions: 150x360 (ST3)

FLUSH BOX	SURFACE BOX (with hood)	HOOD
ref.4643 130x340x55	ref.4647 154x364x96	ref.4703



MARINE ELITE PANELS



MARINE elite
by **FERMAX**

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.



Manufacturing process of MARINE panels



3172 **MARINE SPECIAL 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)**

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



Check for availability in other colours.

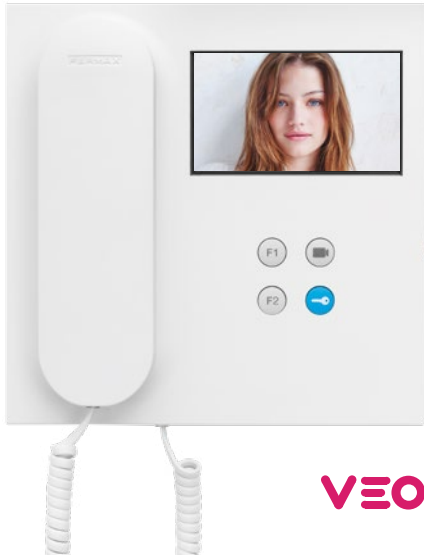


You can find SPECIAL MARINE application forms at:

www.fermax.com/intl/en/pro/online-support/special-panels.html

2. MONITORS AND TELEPHONES

MONITORS



VEO



ref.9402



ref.9410



ref.3389

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

9401 VDS COLOUR VEO MONITOR

Dimensions: 200x200x23mm (44 with handset).

9402 VDS VEO MONITOR CONNECTOR

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

ACCESSORIES

9410 VEO MONITOR DESKTOP SUPPORT

Made in AISI 316L stainless steel. Connector ref.9402 is also required.

3389 UNIVERSAL LARGE DECORATIVE FRAME. 210x240

Very useful for refurbishment or replacement of old equipment.



3443 VEO HANDSET WITH INDUCTIVE LOOP



iLOFT



iLOFT PURE



iLOFT AND iLOFT PURE hands-free monitors with 3,5" TFT colour screen. All the models include 5 plated finish push buttons that allow the following functions: open the door, call the concierge, hands-free communication, auto-on, door bell connection, F1 and F2 to activate additional functions and OSD menu to adjust the call volume, select call tones, control of brightness, contrast and colour, inductive loop (depending on model), programming of the monitor address from the monitor itself, etc.

5620 VDS iLOFT MONITOR

Dimensions: 131x197x45mm. Hands-free. With a transparent polycarbonate sheet. Flush mounted installation (13mm protrusion from the wall once fixed).

5606 VDS SURFACE iLOFT PURE MONITOR

Dimensions: 131x197x35mm. Hands-free. Includes surface connector. Matt finish, without the transparent polycarbonate sheet. Surface installation.

ACCESSORIES



5637 iLOFT MONITOR DESKTOP SUPPORT

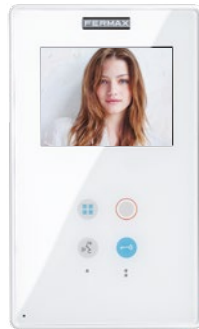
Fermax desktop supports allow a call from the entrance panel to be answered from the office desktop. Made in stainless steel (AISI 316L). Only for surface model iLOFT PURE.

5630 iLOFT FLUSH BOX

108x158x45. For iLOFT Monitor ref.5620



smile



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

6545 3,5" SMILE MONITOR

Dimensions: 103x172x21mm.

6550 7" SMILE MONITOR

Dimensions: 185x172x21mm.

6565 VDS SMILE MONITOR CONNECTOR



smile TOUCH

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

6575 7" SMILE TOUCH MONITOR

Dimensions: 185x172x21mm.

NEW

ref.3266
80x80x20mm

3266 WI-BOX MODULE

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

Note: WI-BOX Call Divert available depending on the geographic area. Check availability.

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



ACCESSORIES



ref.6565



ref.6566



ref.6547



ref.6552



ref.3388



ref.3389

Connectors are always needed regardless the kind of set-up (flush or surface mounted).

6566 SMILE MONITOR DESKTOP SUPPORT

A connector is required and must be ordered separately.

6547 3,5" SMILE DECORATIVE FRAME

Smile decorative frame for 3,5" Smile. Dim.: 127x196x4mm. To be installed with the flush box ref.6546.

6552 7" SMILE DECORATIVE FRAME

Smile decorative frame for 7" Smile. Dim.: 209x196x4 mm. To be installed with the flush box ref.6551.

6546 3,5" SMILE MONITOR FLUSH BOX

Dimensions: 112x186x44 mm. To be installed with the SMILE decorative frame ref. 6547.

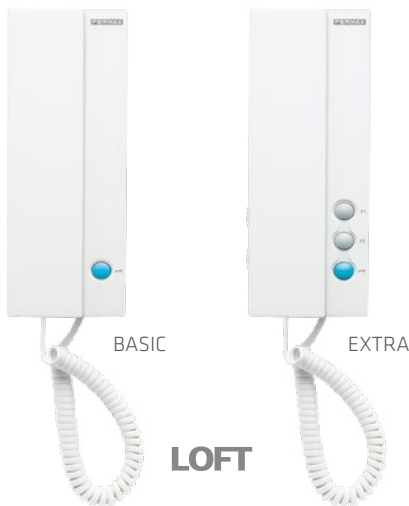
6551 7" SMILE MONITOR FLUSH BOX

Dimensions: 198x186x44 mm. To be installed with the SMILE decorative frame ref. 6552.

3388 UNIVERSAL DECORATIVE FRAME. 120X240

3389 UNIVERSAL LARGE DECORATIVE FRAME. 210x240

TELEPHONES



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

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

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

- 2 buttons for additional functions: stair light switching, second door opening, panic call, etc.
- 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 TELEPHONE

3391 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.

5601 VDS iLOFT TELEPHONE

Hands-free. Dimensions: 90x146,5x20mm



ACCESSORIES



ref.3749



ref.5636



ref.3380



ref.3388



ref.3389



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

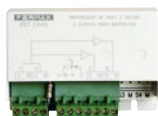
3380 LOFT TELEPHONE DECORATIVE FRAME. 200X240

3388 UNIVERSAL DECORATIVE FRAME. 120X240

3389 UNIVERSAL LARGE DECORATIVE FRAME. 210X240

3441 LOFT HANDSET WITH INDUCTIVE LOOP

3. VIDEO DISTRIBUTORS



ref.2448



ref.3260

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

2448 2 WAYS VIDEO DISTRIBUTOR

2449 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 DISTRIBUTOR

3262 4 WAYS VIDEO MINI DISTRIBUTOR

4. SWITCHER/DECODER



ref.2450

2450 VDS VIDEO SWITCHER

For installations with 2 video accesses (without guard unit).

3265 VDS TESTER

For programming and checking the works in a faster, more convenient and efficient way.

	B.I. VDS Audio	B.I. VDS Video
E.G. MDS Audio	2409 VDS decoder	2409 VDS decoder
E.G. MDS Video	2409 VDS decoder 2448 Video distributor	2409 VDS decoder 2448 Video distributor 2450 Switcher

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

5. GUARD UNIT



2536 VDS CITYMAX GUARD UNIT

3 operating modes:

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

2492 VDS GUARD UNIT CONNECTION MODULE

For installations with outdoor panel. DIN10 format.

6. POWER SUPPLY



ref.4812



ref.4830



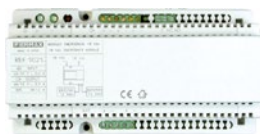
ref.4810



ref.4802



ref.4800



ref.1021

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

1 P.S. = max. 40 monitors.

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

1 P.S. = max. 24 monitors.

4810 POWER SUPPLY 18Vdc/1,5A-12Vac/1,5A DIN10.

1 P.S. = max. 24 monitors

12Vac output to supply 12Vac locks.

4802 POWER SUPPLY DIN4 230VAC 12VAC/1A

To supply 12Vac locks.

4800 POWER SUPPLY DIN4 230Vac/12vac-1,5A

To supply 12Vac locks.

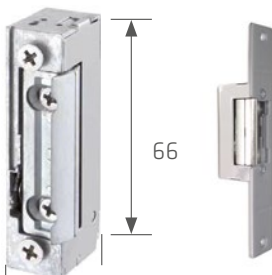
1021 EMERGENCY MODULE 18Vdc

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



16 | 25,5

66

UNIVERSAL LOCK RELEASE

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

Normal operation and short shield P22. 10-24Vac/dc.

UNIVERSAL ELECTRIC STRIKE

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

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

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

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

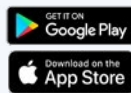
990 Series consumption

N,A	12Vac	250mA
	12Vdc	250mA



8. ACCESSORIES

NEW



ref.3266
80x80x20mm

3266 WI-BOX MODULE

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

Note: WI-BOX Call Divert available depending on the geographic area. Check availability.

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



ref.4545



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.

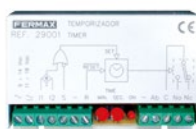
ADDITIONAL FUNCTIONS



ref.2013

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.



ref.29001

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.2450



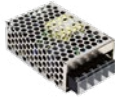
ref.2472



ref.9981



ref.9980



ref.9982



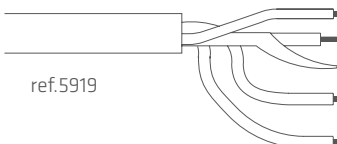
ref.9983



ref.2040



ref.2438



ref.5919

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 F1.

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

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

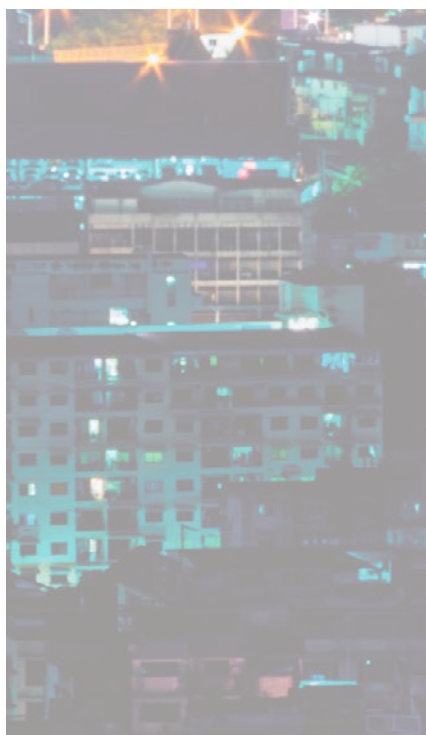
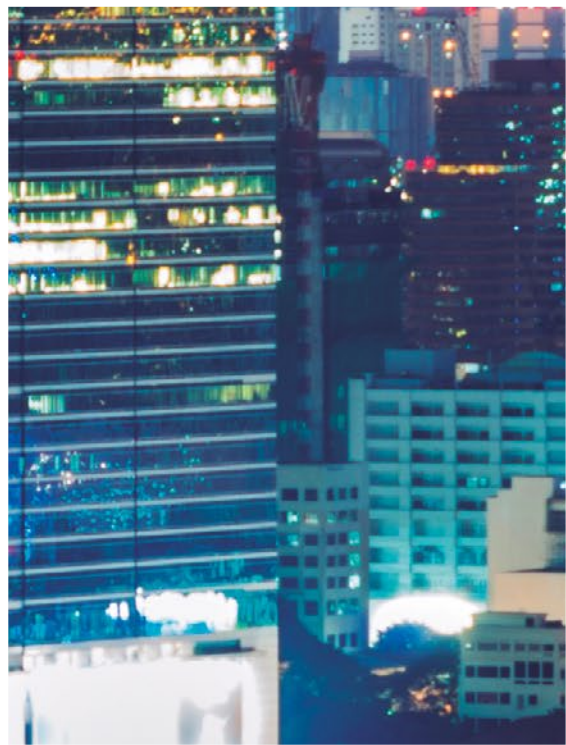
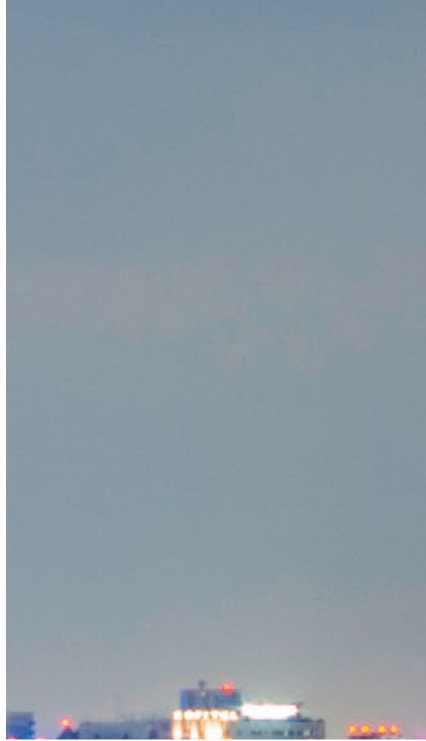
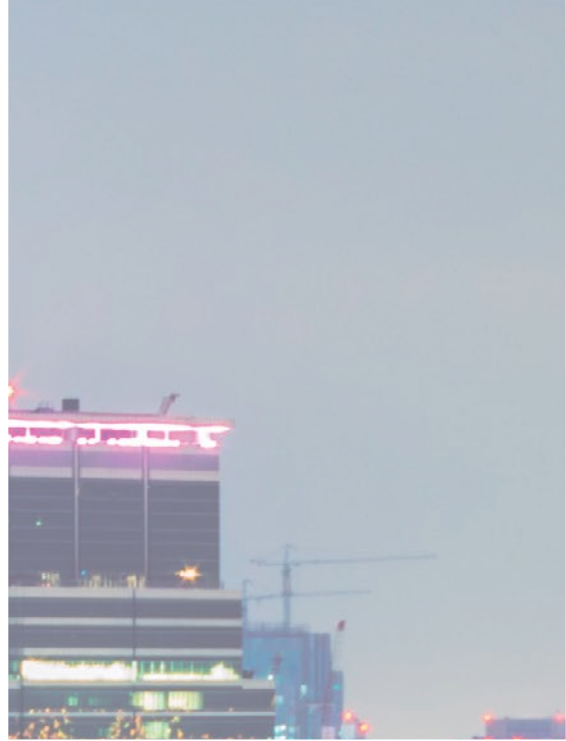
Allows for the activation of high powered devices or indicators when a call is received: bells, sirens, light bulbs, etc. It is possible to connect 1 per monitor or handset.

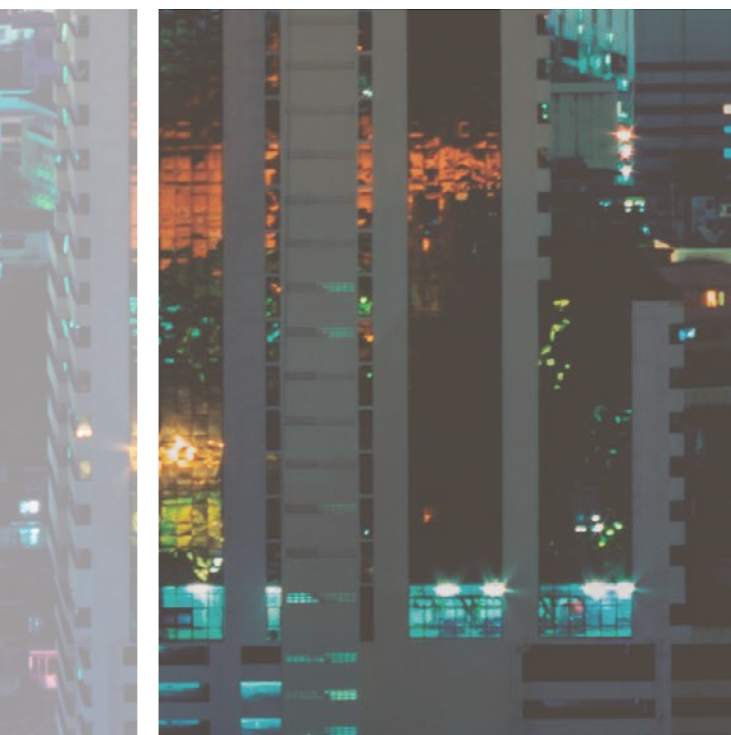
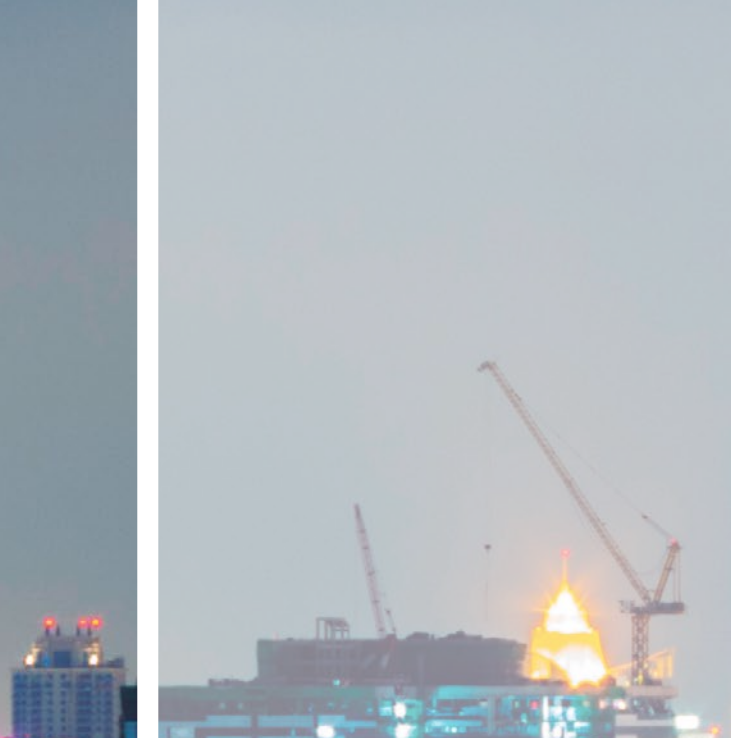
CABLES

All cables are supplied in 100 metres rolls.

5919 VIDEO BUS CABLE. 100M

3 wires of 1mm² + 1 coax 75 Ohms.





MDS

Solutions for buildings

FERMAX



MDS



MDS (MULTIPLXED 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 way 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.

SKYLINE



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 unit.
 - Interior block: 99 apartments and 9 accesses per block (up to 99 blocks).
- **SINGLE BLOCK:**
 - 99 apartments, 5 accesses and 1 guard unit.
 - 99 apartments and 9 accesses.


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.

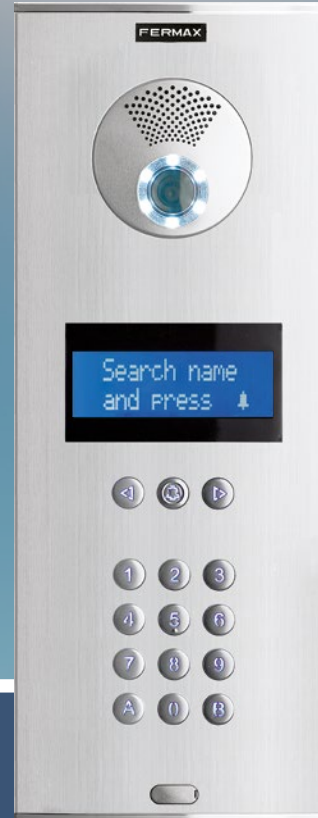
Access control (proximity, fingerprint, keypad, etc.) integrated in the video door entry MDS bus itself.
Centralised access control managed from the video door entry software itself.
Programmed automation through relays decoders (up to 999 addresses) and sensors (up to 999 addresses) in order to activate lights, sensors, irrigation, etc.
Lift control. Different lift control modes to restrict access to non-authorized 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: <ul style="list-style-type: none"> - 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).
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>SKYLINE</p>  </div> <div style="text-align: center;"> <p>URBANLINE</p>  </div> <div style="text-align: center;"> <p>CITYLINE</p>  </div> <div style="text-align: center;"> <p>MARINE</p>  </div> </div>

PANELS

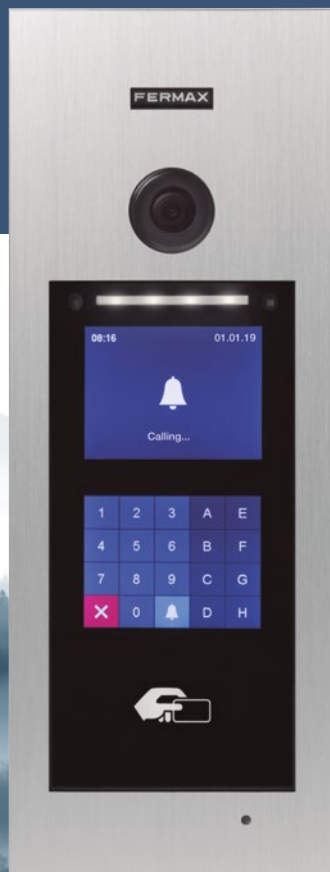
SKYLINE

cityline

MDS



urban line



MARINE



COMBINATION WITH OTHER SYSTEMS: MDS/VDS

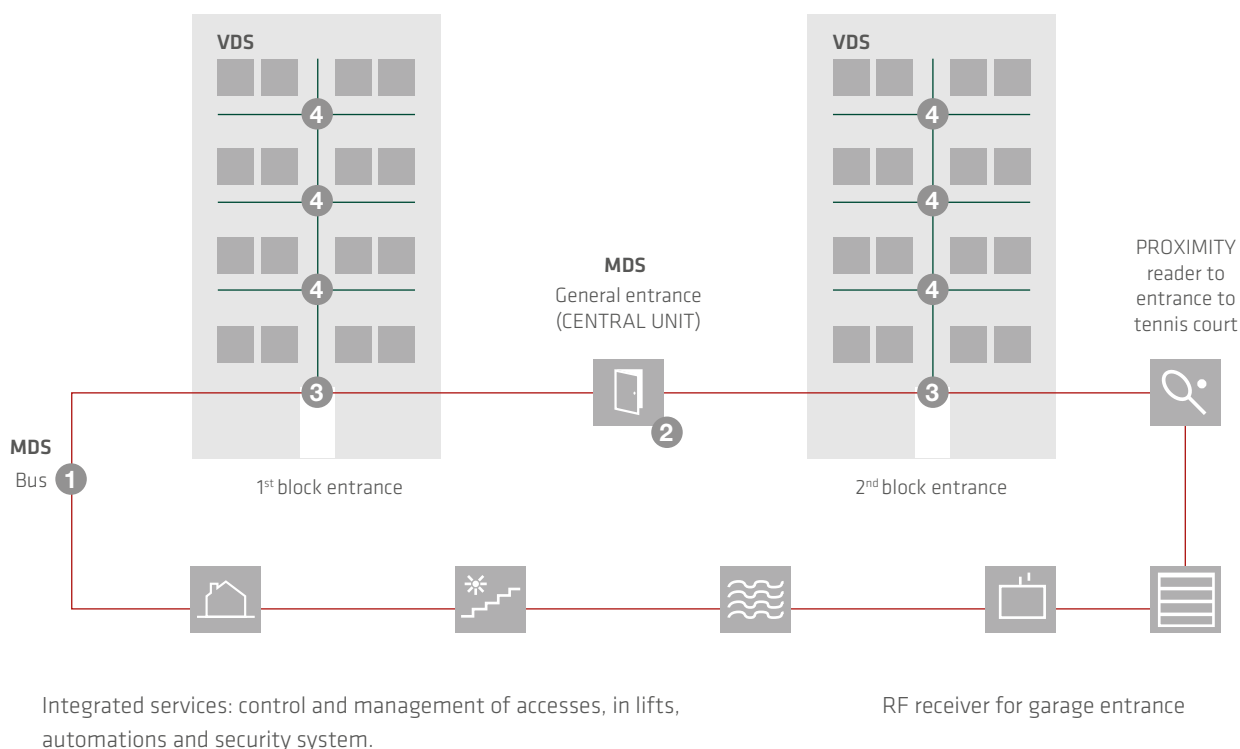
When combining a MDS/VDS system, the result is a system with the complete capacities of MDS and the greater VDS wiring simplicity. Basically, it consists on this combination:

- MDS for General Entrances.
- VDS for Interior Blocks.

Depending on the installation size, it is recommended VDS or MDS interior blocks riser.

MEDIUM-SIZED INTERIOR BLOCKS INSTALLATIONS

In the installations with interior blocks that require only VDS functionalities. This type of installation requires a MDS/VDS decoder (3) (ref. 2409) per block. Thus, the interior building wiring is VDS, (4) UTP CAT5, 5 wires or 3 +COAX. Monitors and telephones will be VDS.



The MDS decoder allows for the connecting of the general entrance (G.E.) with interior blocks (I.B.) with other technology such as VDS one decoder is needed per block. See table.

2409 VDS / MDS DECODER

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

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



1. OUTDOOR PANELS



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.

FRAMES



ref.7341
Frame 1V Series 1
130x128



ref.7332
Frame 2V Series 2
130x151



ref.7333
Frame 3V Series 4
130x199



ref.7334
Frame 4V Series 5
130x246



ref.7335
Frame 5V Series 6
130x294



ref.7336
Frame 6V Series 7
130x341



ref.7337
Frame 7V Series 8
130x389



ref.7338
Frame 8V Series 9
130x436,5

VIDEO AND AUDIO MODULES W



ref.7406
Video W



ref.7400
Audio W

DOUBLE PUSH BUTTONS



ref.7371
8 Push. 2x4 W



ref.7372
4 Push. 2x2 V



ref.7376
2 Push. 2x1 V

INFORMATION MODULES



ref.7445
Cardholder W



ref.7444
Cardholder V



ref.7448
OneToOne V

SINGLE PUSH BUTTONS



ref.7367
4 Push. 1x4 W



ref.7368
2 Push. 1x2 V



ref.7375
1 Push. 1x1 V

ACCESS CONTROL



ref.6936
Fingerprint W



ref.7440
Proximity V

DIGITISER MODULE AND CALL KEYPAD



ref.7460
Digitiser Module



ref.7439
Direct Keypad W
(panel without display)

ACCESSORIES



ref.7443
Metallic
complement W



ref.7442
Metallic
complement 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 70.



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.7287

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 S6

7066 SURFACE BOX S6

8829 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 109) 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.).

As many as corresponds according to the total number of apartments.

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.



ref.2532



ref.2443

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 OUTDOOR PANELS



MDS Digital SKYLINE

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.



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

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 S7

7067 SURFACE BOX S7

8257 DECORATIVE FRAME S7

8829 JOINING BOLTS SET

8406 CITY SINGLE HOOD S7

8414 CITY DOUBLE HOOD S7



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

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



ref.7482

ref.7481

URBANLINE

7482 URBANLINE VIDEO PANEL S7

7481 URBANLINE AUDIO PANEL S7

ACCESSORIES

8857 FLUSH BOX S7



SKYLINE PANELS

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.

FRAMES



ref.7341
Frame 1V Series 1
130x128



ref.7332
Frame 2V Series 2
130x151



ref.7333
Frame 3V Series 4
130x199



ref.7334
Frame 4V Series 5
130x246



ref.7335
Frame 5V Series 6
130x294



ref.7336
Frame 6V Series 7
130x341



ref.7337
Frame 7V Series 8
130x389



ref.7338
Frame 8V Series 9
130x436,5

VIDEO AND AUDIO MODULES W



ref.7406
Video W



ref.7400
Audio W

ELECTRONIC DISPLAYS AND CALL KEYPAD MODULES



ref.7451
MDS Display W



ref.7447
MDS Digital Keypad W
(panel with display)

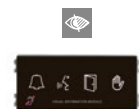
INFORMATIVE MODULES



ref.7445
Cardholder W



ref.7444
Cardholder V



ref.7448
OneToOne V

METALLIC MODULES



ref.7443
Metallic
complement W

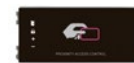


ref.7442
Metallic
complement V

STAND-ALONE ACCESS CONTROL



ref.6936
Fingerprint W



ref.7440
Proximity 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 70.



To see general features of the CITYLINE panel consult page 154 in the DUOX section.

CITYLINE PANEL

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

There are **9 DIFFERENT PANEL DIMENSIONS** called "SERIES", all with the same width but different height and push button capacities.

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

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

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

PUSH BUTTON CITYLINE PANELS

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



ref.70706
1 Push.



ref.70701
1 Push.

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.

DIGITAL CITYLINE PANEL



ref.7299

ref.7310

Panel:
130x341 (S7)

Flush box:
115x328x45 (S7)

DIGITAL panels include a KEYPAD and 16-character LCD x 2 rows DISPLAY.

The keypad incorporates an access control function (350 codes).

7299 VDS DIGITAL VIDEO CITY PANEL S7

7303 VDS DIGITAL AUDIO CITY PANEL S7

7310 DIRECTORY CITY PANEL S7

8857 FLUSH BOX S7

Note: For other CITYLINE push button panels see SPECIAL CITYLINE PANELS on page 72.



INFORMATIVE MODULES AND COMPLEMENTS



ref.7448



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.



ref.7444



ref.7442

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.

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.

ACCESS CONTROL MODULES



PROXIMITY
400 USERS
ref.7440



ref.23361



ref.4515

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.

5259 RF KEYSINGLE-MINI EMITTER

5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH



ref.5291



ref.5259



ref.5231

CITYLINE/SKYLINE ACCESSORIES



FLUSH
BOX



SURFACE
BOX



HOOD



MODULAR
FRAME*



CITY FRAME



ANGULAR
COMPLEMENT

	FLUSH BOX	SURFACE BOX	HOOD		MODULAR FRAME*	CITY FRAME		ANGULAR COMPLEMENT
			SIMPLE	DOUBLE		SIMPLE	DOUBLE	
S1	ref.8851 115x114x45	ref.7061 130x128x33	ref.8400 135x130	-	ref.9191 211x210	ref.8251 225x310	-	ref.8378
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 H:341mm.

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



Ask for availability

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.

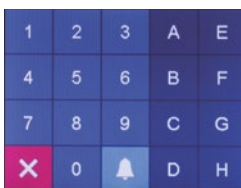
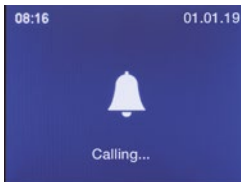
Door opening voice message.

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 CNS works as a Wiegand-26 data input. If Option-9-Guest code is enabled (default option), the connector CNS 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.



MARINE PANEL

MARINE is the FERMAX vandal-proof door entry panel made in AISI 316L stainless steel (2,5mm-thick). IP54 IK09.

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

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.

PUSH BUTTONS MARINE PANELS

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



ref.54331
1 Push.



ref.54336
1 Push.

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.

ST1

FLUSH BOX	SURFACE BOX (with hood)	HOOD
ref.4641 130x160x55	ref.4645 154x184x96	ref.4701

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

DIGITAL MARINE PANEL



ref.5468

ref.5471

- 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

ST3 Panel: 150x360 (ST3)

FLUSH BOX	SURFACE BOX (with hood)	HOOD
ref.4643 130x340x55	ref.4647 154x364x96	ref.4703



MARINE ELITE PANELS



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.



Manufacturing process of MARINE panels



3172 MARINE SPECIAL 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)

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



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.6958

ref.6994



ref.5472



ref.4696



ref.23361



ref.4515



ref.4420



ref.5296



ref.5293



ref.5266



ref.5259



ref.5231



ref.6935



ref.5482

CITYLINE

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

6992 CITYLINE PROXIMITY READER

6958 CITYLINE WIEGAND MIFARE/EM PROXIMITY READER

6994 MDS CITY KEYPAD

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

2336 EM PROXIMITY CARD WITH MAGNETIC BAND

4515 PROXIMITY KEYPAD

52750 PROXIMITY CARD MIFARE FERMAX

52740 PROXIMITY KEYPAD 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



ref.2537

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



ref.2405



ref.2379

Essential at installations with MDS Digital panels.

2405 1 ACCESS MDS CENTRAL UNIT

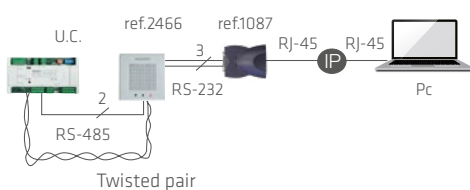
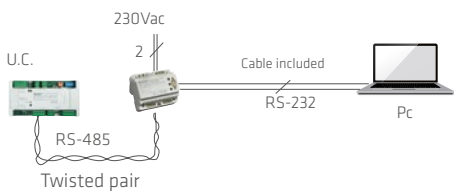
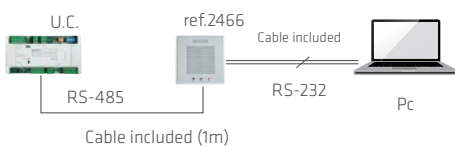
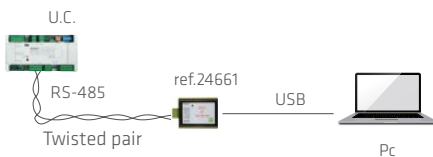
It manages up to 9.999 apartments and 1.020 access control users.

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

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

2379 2 ACESSES 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 TO RS-485 PC ADAPTOR

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.



COMMON ELEMENTS FOR ALL MDS SYSTEMS

1. POWER SUPPLY



ref.4813

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.



ref.4830

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.



ref.4812

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.



ref.2060

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

2060 BATTERY ADAPTOR 12VDC (DIN6)

1021 EMERGENCY MODULE 18Vdc

2. DOOR LOCK RELEASE



540

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

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

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

10-24 Vac/dc.

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).



990

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

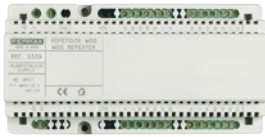
30701 LOCK RELEASE 540N-412-S MAX

Normal operation and short shield. 12Vdc.

3264 AC ELECTRIC LOCK COMMANDER

Maximum current: 1 Ampere.

3. ACCESSORIES



ref.2339



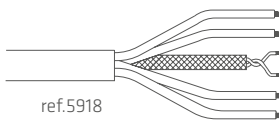
ref.2424



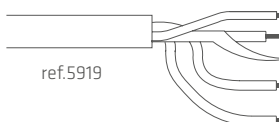
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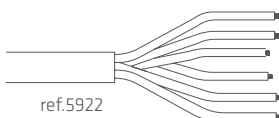
ref.2419



ref.5918



ref.5919



ref.5922

2339 MDS REPEATER

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

4110 VIDEO SIGNAL AMPLIFIER

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

1345 FIBER OPTICS CONVERTER

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

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

2424 MDS 4-WAYS AUDIO DECODER

2425 MDS 8-WAYS AUDIO DECODER

2436 4-PANELS DECODER

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

2466 PC DECODER PROGRAMMING MODULE

24661 USB TO RS-485 PC ADAPTOR

2418 MDS 4-WAYS VIDEO DISTRIBUTOR

2419 MDS 8-WAYS VIDEO DISTRIBUTOR

2429 8 MDS/AC+ SENSOR DECODER. DIN10

2430 8 MDS/AC+ RELAY DECODER. DIN10

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

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

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

4 wires 1mm²+1 twisted pair shielded of 2 x 0,5 mm².

5919 VIDEO BUS CABLE (100M)

3 wires of 1mm²+1 coaxial of 75 Ohms.

5922 DECODER-TELEPHONE CONNECTION CABLE (1M)

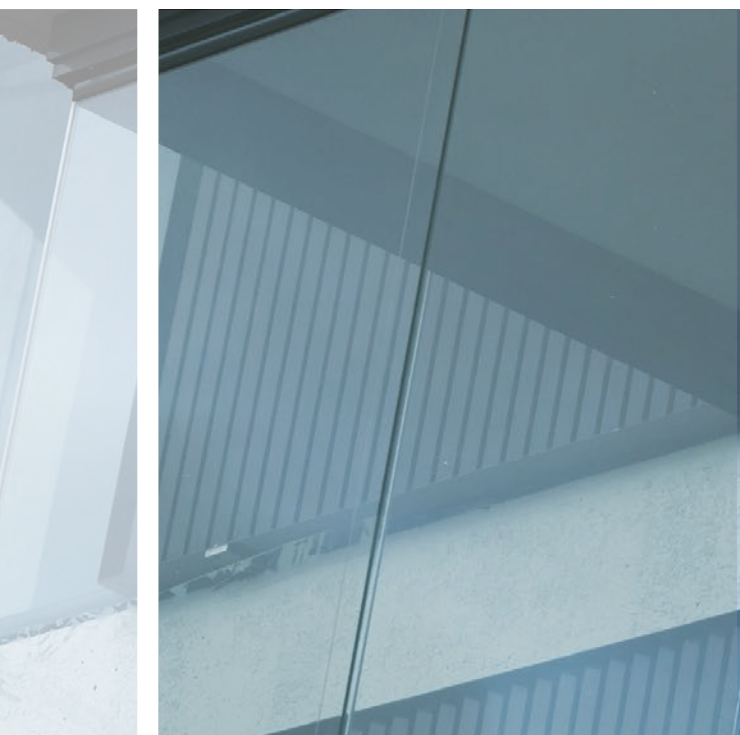
6 wires of 0,5mm².

4. MONITORS AND TELEPHONES

4+N telephones. Check out the Analogue section page 116.

VDS monitors and telephones. Check out the VDS section page 77.

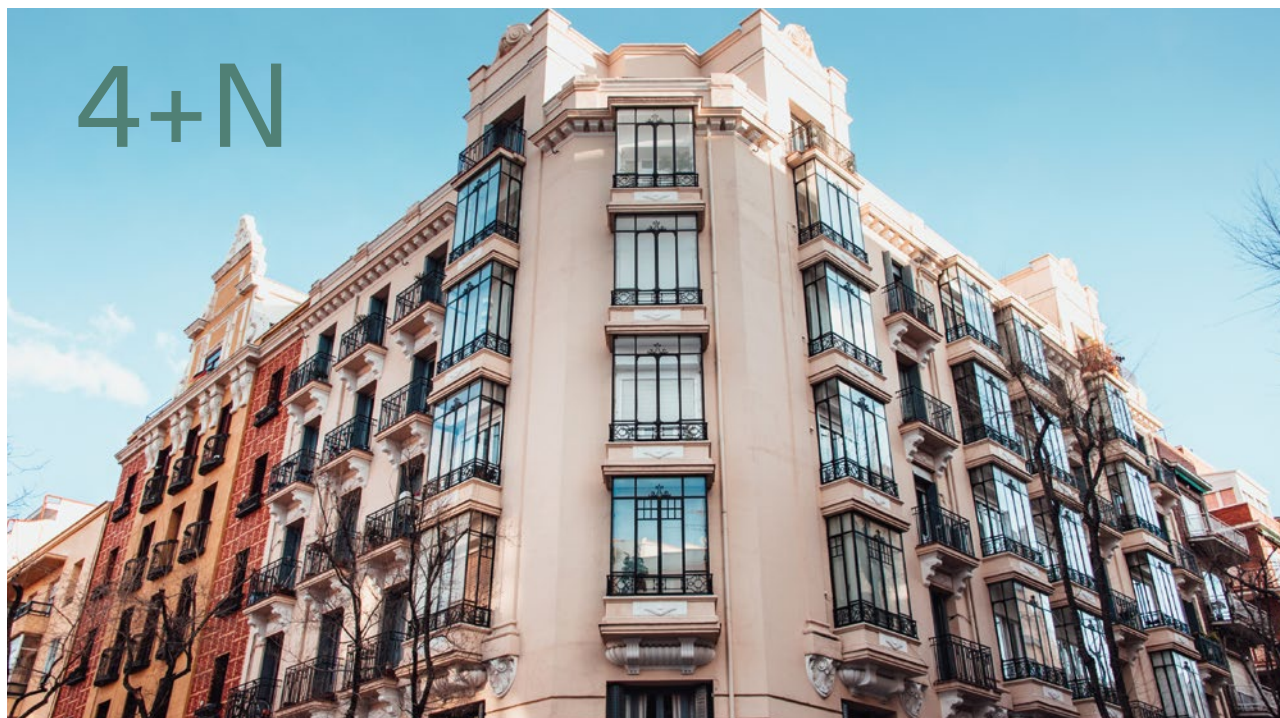




4+N

Solutions for buildings

FERMAX



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.

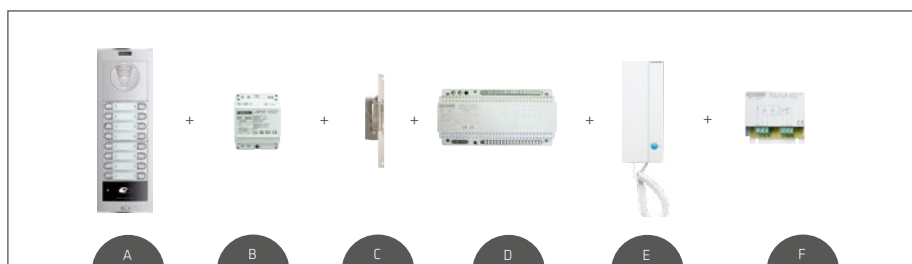
- It is recommended in small/medium-sized buildings, 7 accesses maximum.
- The AMPLIFIER includes volume potentiometer, both outdoor panel-monitor and monitor-outdoor panel, to adjust the optimal volume.
- It is the most economic and basic solution.



SYSTEM FEATURES

COMPOSITION

- A. Outdoor panel
- B. Power supply
- C. Door lock release
- D. Switcher (2 to 7 accesses)
- E. Telephones
- F. Accessories



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.

Available **two models of amplifiers:**

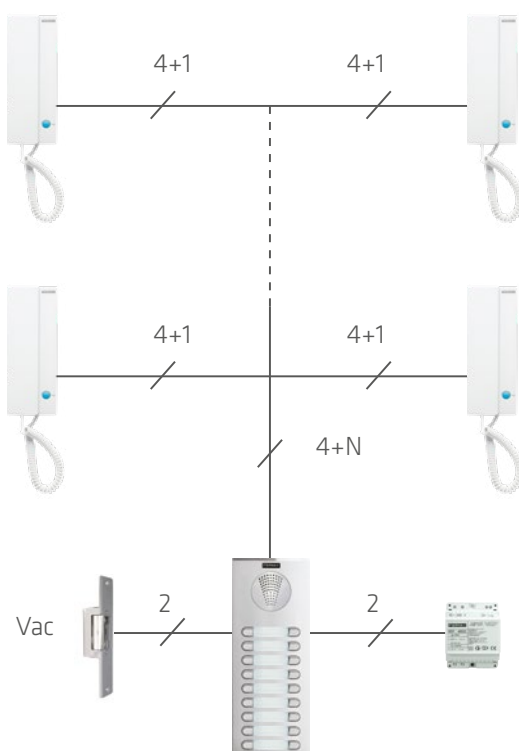
A) Building or Complete Amplifier.

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.

4+N AUDIO DIAGRAM



PANELS



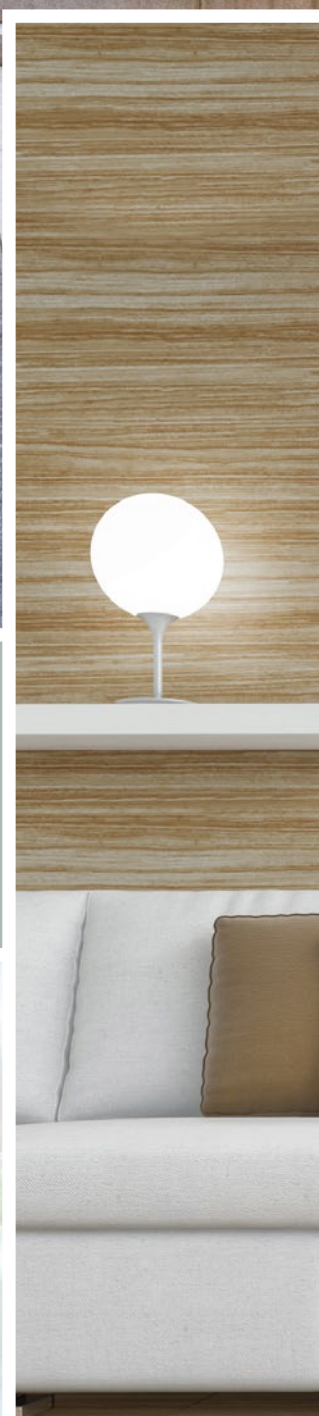
cityline
CLASSIC

SKYLINE

cityline

4+N

TELEPHONES





LOFT
BASIC



LOFT
EXTRA



citymax
BASIC



citymax
PALACE



1. OUTDOOR PANELS



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.

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.

FRAMES



ref.7341
Frame 1V Series 1
130x128



ref.7332
Frame 2V Series 2
130x151



ref.7333
Frame 3V Series 4
130x199



ref.7334
Frame 4V Series 5
130x246



ref.7335
Frame 5V Series 6
130x294



ref.7336
Frame 6V Series 7
130x341



ref.7337
Frame 7V Series 8
130x389



ref.7338
Frame 8V Series 9
130x436,5

AUDIO MODULES W



ref.7400
Audio Complete W



ref.7399
Audio Basic W

Note: Read more about the complete amplifier functions on page 00.

DOUBLE PUSH BUTTONS



ref.7369
8 Push. 2x4 W



ref.7370
4 Push. 2x2 V



ref.7374
2 Push. 1x1 V

INFORMATIVE MODULES



ref.7445
Cardholder W



ref.7444
Cardholder V



ref.7448
OneToOne V

SINGLE PUSH BUTTONS



ref.7365
4 Push. 1x4 W



ref.7366
2 Push. 1x2 V



ref.7373
1 Push. 1x1 V

METALLIC MODULES



ref.7443
Metallic
complement W



ref.7442
Metallic
complement V

STAND-ALONE ACCESS CONTROL



ref.7438
Keypad W



ref.6936
Fingerprint W



ref.7440
Proximity V

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. In case of any additional accessory required, check out the CITYLINE/SKYLINE accessories table on page 70.



CITYLINE PANEL

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

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

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

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

PUSH BUTTON CITYLINE PANELS

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

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



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

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



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

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



ref.70741 4 Push.
ref.70041 8 Push.

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



ref.70121 10 Push.
ref.70131 12 Push.

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



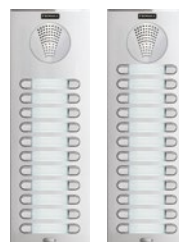
ref.70221 14 Push.
ref.70231 16 Push.

SERIES 7 // Panel: 130x341
Flush box (ref.8857): 115x328x45



ref.70321 18 Push.
ref.70331 20 Push.

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



ref.71141 22 Push.
ref.71151 24 Push.



CITYLINE CLASSIC PANEL

Cityline Classic is the range of audio door entry panels for small buildings. It stands out for its design, versatility and curved-convex profile. There are 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 109 to find out the differences compared to the Basic or Kit amplifier).

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



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

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



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

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



ref.8593 4 Push.
ref.8591 8 Push.

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



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

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



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

SERIES 7 // Panel: 130x341
Flush box (ref.8857): 115x328x45



ref.8700 18 Push.
ref.8701 20 Push.

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



ref.8740 22 Push.
ref.8741 24 Push.

NOTE: These panels include the Complete or Building amplifier. (See page 109 to find out the differences compared to the Basic or Kit amplifier).

SKYLINE/CITYLINE/CITYLINE CLASSIC PANEL ACCESSORIES

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

4. TELEPHONES

BASIC/UNIVERSAL

EXTRA



LOFT

Dimensions: 85x220x40mm

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 model incorporates a magnet located in the handset that facilitates to hang it up correctly.

3393 BASIC LOFT TELEPHONE

3394 EXTRA LOFT TELEPHONE

3399 UNIVERSAL LOFT TELEPHONE

80447 BASIC CITYMAX TELEPHONE

80397 UNIVERSAL CITYMAX TELEPHONE

8084 PALACE CITYMAX TELEPHONE (PEARL)

BASIC/UNIVERSAL

PALACE



citymax

Dimensions: 80x200x60mm

MODELS	FUNCTION
BASIC LOFT TELEPHONE BASIC CITYMAX TELEPHONE 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	
LOFT / CITYMAX BASIC / UNIVERSAL TELEPHONE	White
PALACE	Pearl

ACCESSORIES



ref.3380



ref.3749



ref.3388



ref.3389

- 3749 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 INDUCTION LOOP

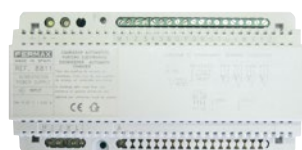
5. DISTRIBUTORS/SWITCHERS

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.

6. POWER SUPPLY



ref.4802

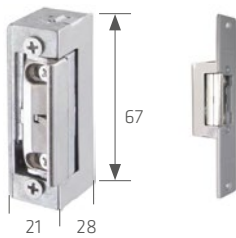


ref.4800

FOR AUDIO INSTALLATION

- 4802 POWER SUPPLY DIN4 230VAC 12VAC/1A
- 4800 POWER SUPPLY DIN4 230VAC/12VAC-1,5A
- 4801 POWER SUPPLY DIN4 110-120VAC/12VAC/15A

7. DOOR LOCK RELEASES



540 Series consumption		
N,A	12Vac	980mA
N-412	12Vdc	250mA

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.

8. ACCESSORIES



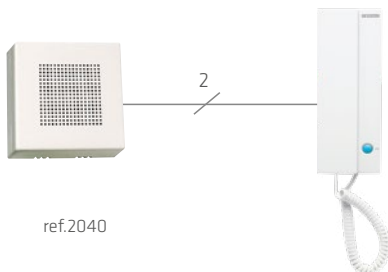
ref.4545



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.

4545 TELEPHONE INTERFACE

CALL ACCESSORIES



ref.2040

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.



ref.8053

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.



ref.2340

2340 4+N/MDS CALL MULTIPLIER

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

ADDITIONAL FUNCTIONS



ref.2013

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.



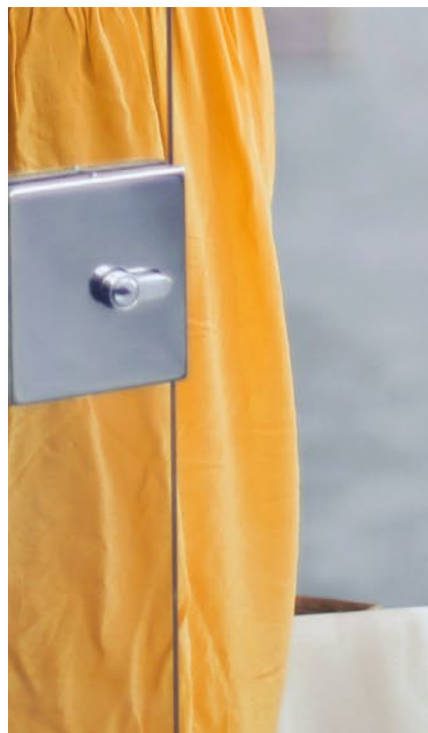
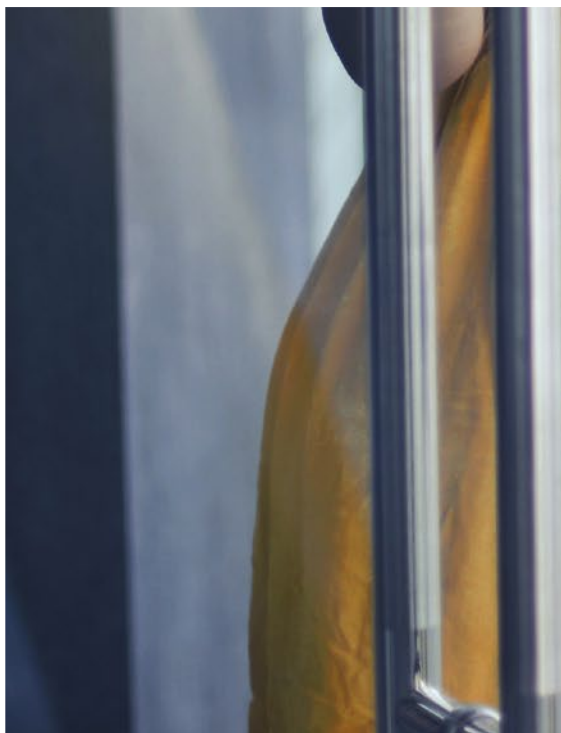
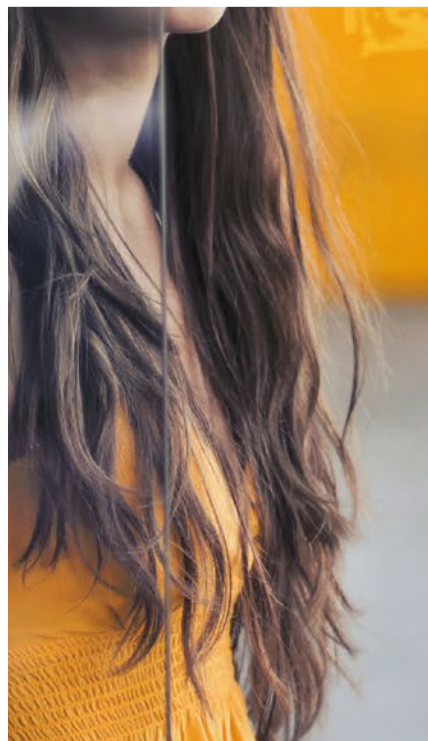
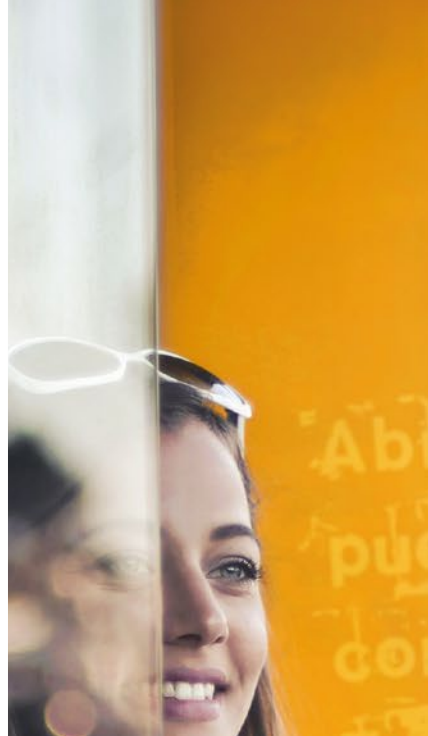
ref.29001

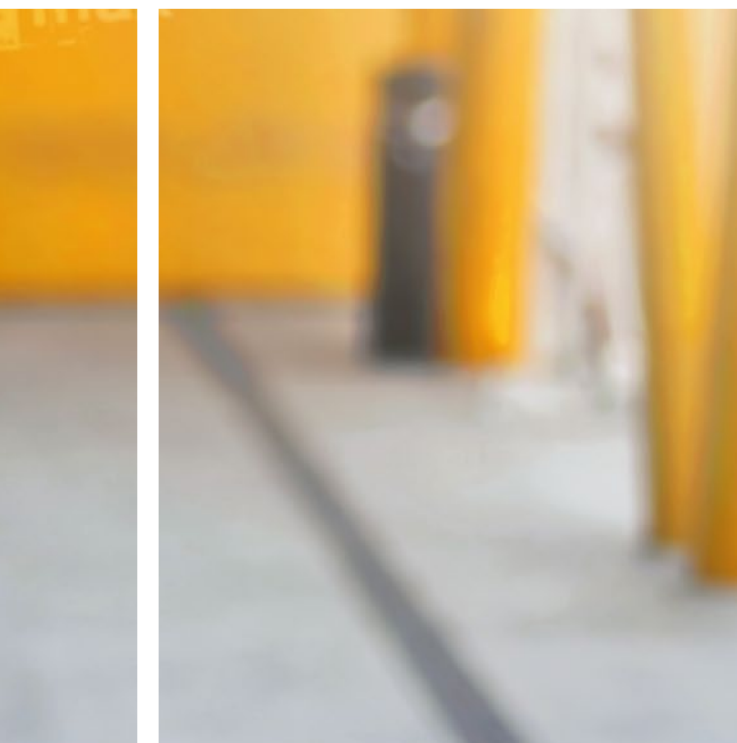
88101 DOUBLE CONTACT RELAY 18Vdc

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.





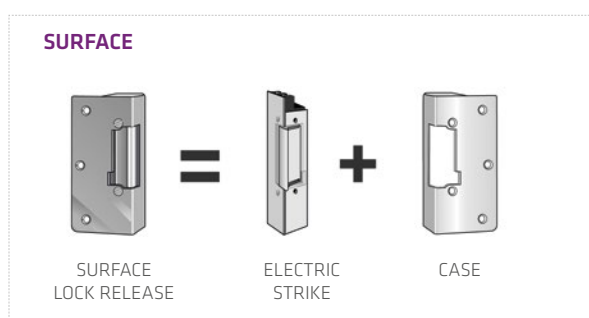
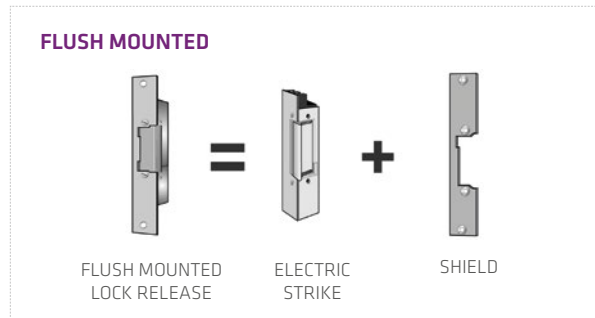
DOOR LOCK RELEASE

Flush mounted or Surface

FERMAX

DOOR LOCK RELEASE

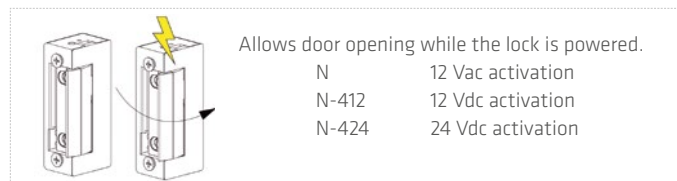
An electric door lock release basically consists of an electrical strike and a shield or case, depending on the installation system (flush mounted or surface).



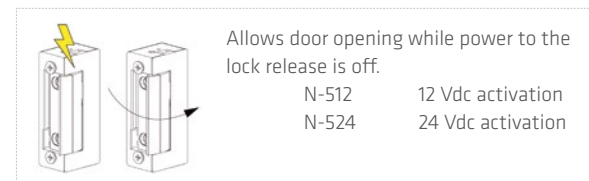
FLUSH MOUNTED DOOR LOCK RELEASE

OPERATION MODES

NORMAL OPERATION N



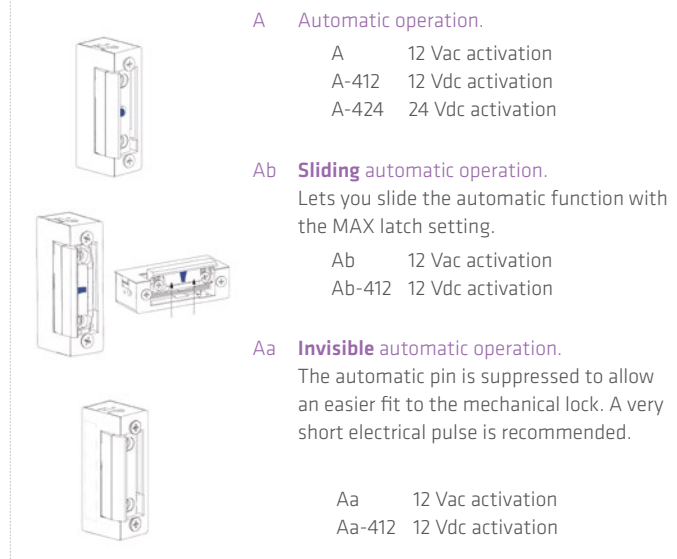
INVERTED OPERATION N-500



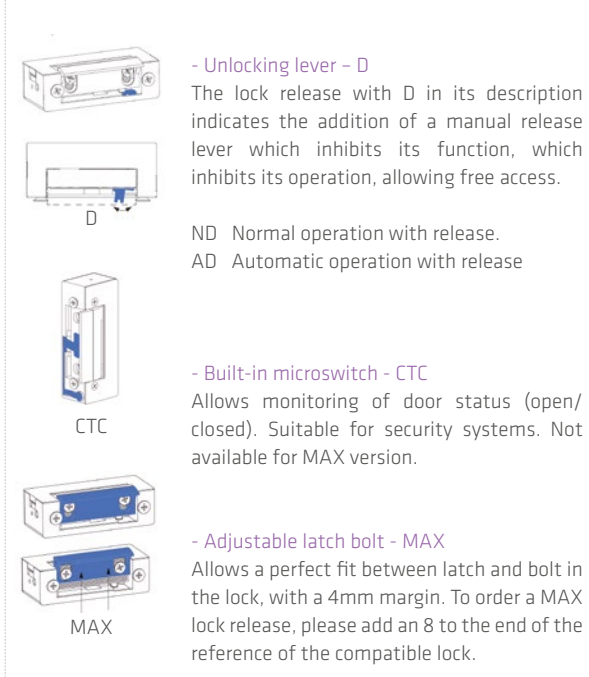
AUTOMATIC OPERATION A

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.

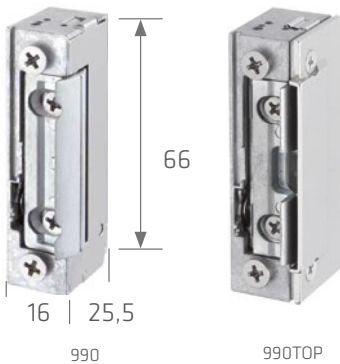


ADDITIONAL OPERATION

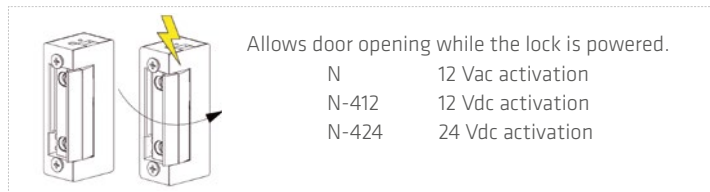


NORMAL OPERATION N

990 SERIES Universal



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

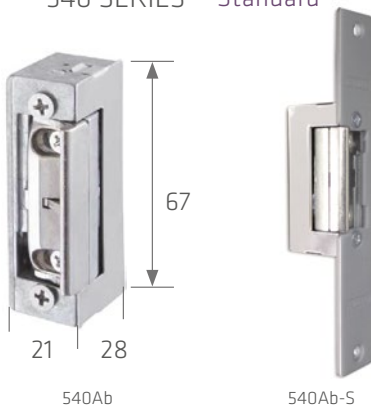


N	12 Vac activation
N-412	12 Vdc activation
N-424	24 Vdc activation

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 UNIV. ELECTRIC STRIKE 990N MAX 10-24Vdc/ac
- 1813 ELECTRIC STRIKE 990ND MAX
- 1814 ELECTRIC STRIKE 990ND TOPMAX
- 67500 ELECTRIC STRIKE 990N CTC MAX
- 1817 ELECTRIC STRIKE 990N-L22 10-24V MAX (large shield L22)

540 SERIES Standard



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

STANDARD 12Vac

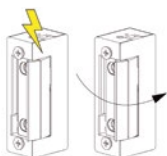
- 30711 LOCK RELEASE 540N-S MAX (short shield S)
- 28341 LOCK RELEASE 540ND-S MAX (short shield S)
- 1777 ELECTRIC STRIKE 540N MAX
- 1799 ELECTRIC STRIKE 540ND MAX

STANDARD 12Vdc

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

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

INVERTED OPERATION N-500 12VDC



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

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

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.

UNIVERSAL 12Vdc

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

STANDARD 12Vdc

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

FLUSH MOUNTED DOOR LOCK RELEASE

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.



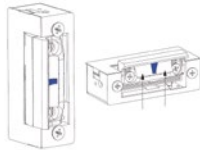
A Automatic operation.

- 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.

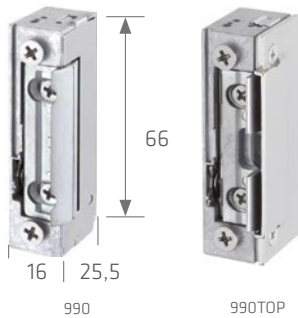
- Ab 12 Vac activation
- Ab-412 12 Vdc activation

Aa 12 Vac activation

Aa-412 12 Vdc activation

990 SERIES

Universal



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

UNIVERSAL 12-24Vac/dc

- 67521 LOCK RELEASE 990A-P22 12-24VAC/DC (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 UNIV. ELECTRIC STRIKE 990A MAX 12-24Vac/dc
- 6753 ELECTRIC STRIKE 990AD MAX (unlocking lever)

540 SERIES

Standard



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

STANDARD 12Vac

- 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 540aD-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.

SURFACE DOOR LOCK RELEASE

NORMAL OPERATION N

2001 SERIES

2003 SERIES



ref.2923-2917

ref.2940

2000 Series consumption		
N	12Vac	980mA

WITHOUT DEADBOLT 12Vac

2923 LOCK RELEASE N-2001 CHROME

2940 LOCK RELEASE N-2003 ANODIZED ALUM.

2984 LOCK RELEASE 8000N WITH CHAIN

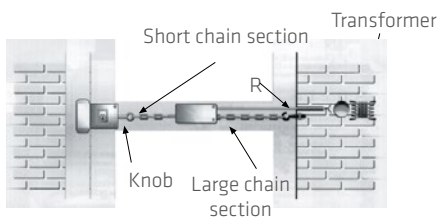
3064 LOCK RELEASE PN (PANIC BAR)

2879 ELECTRIC RIM LOCK 962-DOUBLE KEY+PUSH BUTTON

WITH DEADBOLT 12Vac

3004 LOCK RELEASE 6000N GREY

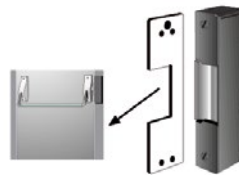
8000 SERIES (with chain)



ref.2984

8000 Series consumption		
N	12Vac	980mA

P SERIES (anti-panic)



ref.3064

P Series consumption		
N	12Vac	980mA

962 SERIES

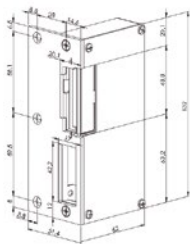


ref.2879

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

AUTOMATIC OPERATION A

6000 SERIES



6000A DIN
left

6000 Series consumption		
N,A	12Vac	980mA

WITHOUT DEADBOLT 12Vac

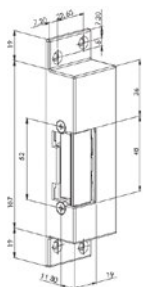
2917 LOCK RELEASE A-2001 CHROME

WITH DEADBOLT 12Vac

3005 LOCK RELEASE 6000A GREY

3006 LOCK RELEASE 6000AD GREY

ACCESSORIES



2979 SHIELD TYPE-2001 CHROME

2987 SHIELD TYPE-2006 GREY

SPECIAL DOOR LOCK RELEASE

INVERTED OPERATION N-500

ELECTROMAGNETICS



ref.3050

ELECTROMAGNETIC consumption	
12Vdc	500mA
24Vdc	250mA



ref.3052



ref.3078



ref.2837

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 BRACKET (for ref.3052)

3079 L-3 BRACKET (for ref.3052)

2837 U BRACKET (for ref.3052)

CII SERIES



ref.3098

700 SERIES



ref.1086

3098 GLASS LOCK RELEASE CIIN-512-SX 12V

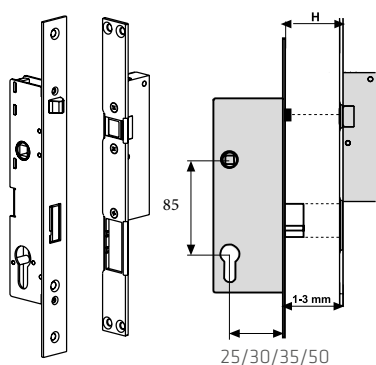
For single leaf glass doors up to 12mm.

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

850 SERIES



ref.3101 / ref.3102

850 Series consumption	
12Vdc	1.350mA
12Vac	990mA

3101 SEG.850/50 A AUTOMATIC LOCK

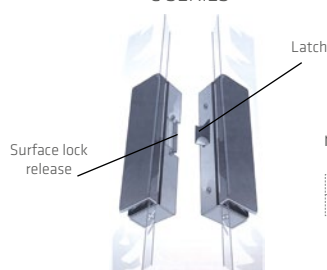
3102 SEG.850/25 A AUTOMATIC LOCK

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.

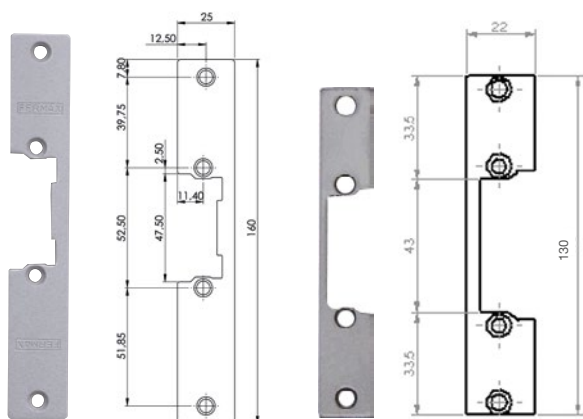
C SERIES



ref.2998

C Series consumption		
N.A	12Vac	980mA

ACCESSORIES

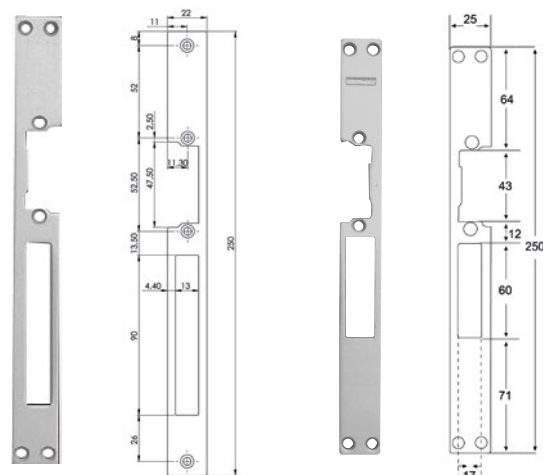


ref.2973
Shield S

ref.2894
Shield P22

FLUSH MOUNTED LOCK RELEASE

- 2973 S-TYPE GREY SHORT SHIELD
- 2893 M-TYPE GREY LARGE SHIELD
- 2894 P22-TYPE SHORT SHIELD
- 2892 L22-TYPE GREY SHIELD
- 2975 G-TYPE GREY LARGE SHIELD (36mm)
- 2985 GE-TYPE GREY LARGE SHIELD (12mm)

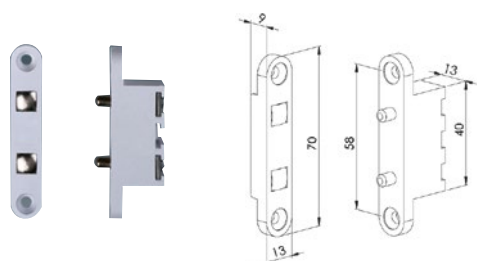


ref.2892
Shield L22

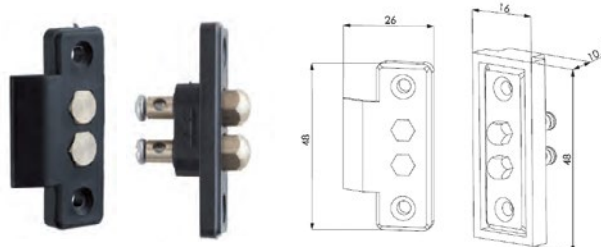
ref.2985
Shield GE

FOR ALL TYPE OF LOCK RELEASE

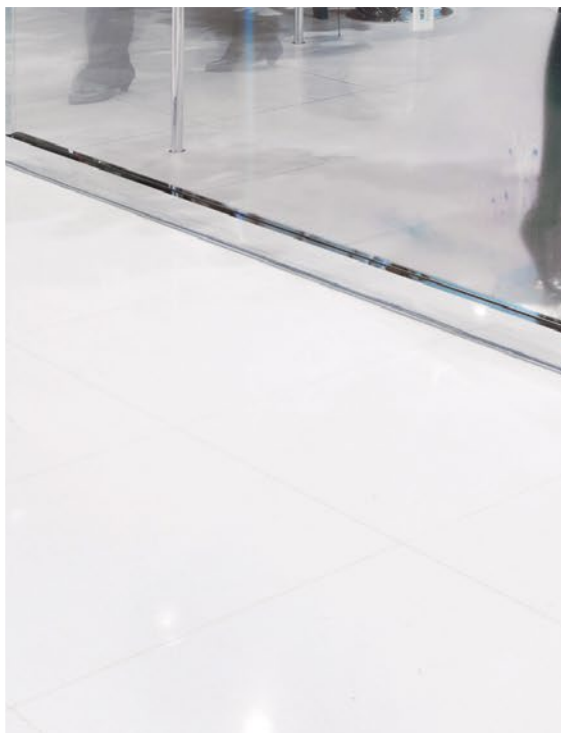
- 2913 2C DOUBLE CONTACT (WHITE)
- 7776 2CN DOUBLE DOOR CONTACT (BLACK)
- 2922 3C TRIPLE DOOR CONTACT
- 3083 X1 FLEXIBLE CONDUIT (30cm)
- 3084 X2 RIGID VANDAL PROOF CONDUIT (26cm)
- 4800 POWER SUPPLY DIN4 230Vac/12vac-1,5A
- 4802 POWER SUPPLY DIN4 230VAC 12VAC/1A
- 4813 POWER SUPPLY DIN6 100-240VAC/12VDC-2A
- 1076 MAGNETIC CONTACT



ref.2913
Contact 2C



ref.7776
Contact 2CN









ACCESS CONTROL

Stand-alone
Centralised

FERMAX

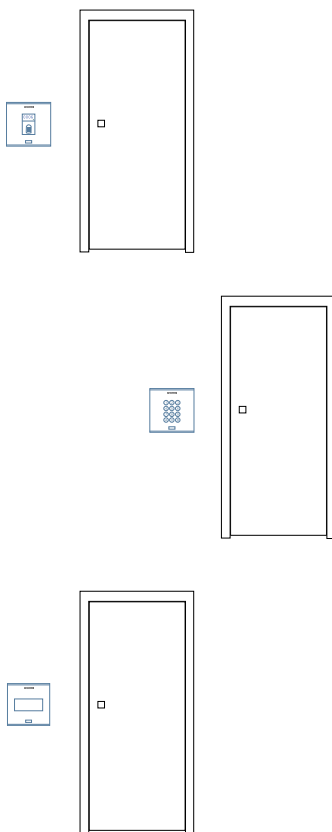
CATEGORY	 ACCESS CONTROL Stand-alone Control your door and only your door.	 ACCESS CONTROL Centralised Installations with various access points	
SYSTEMS	Stand-alone	ACPlus 	
USERS	Up to 1.000*	2.046	50.000
DOORS	1	2.048	840

*It depends on the chosen devices.

 **STAND-ALONE**

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.

 **ACCESS CONTROL Stand-alone**



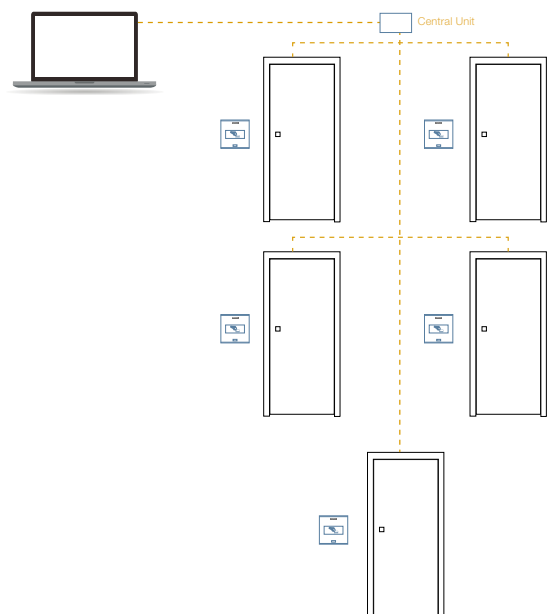
 **CENTRALISED**

A centralised access control system is characterised by the fact that managing both system and users is carried out from a central device which connects directly (RS-485) or remotely (IP) to the PC through a software program (in the Windows range), for the programming of the installation.

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

 **ACCESS CONTROL Centralised**

Installations with various access points which require a RS-485 or IP connection between them and the PC. It is necessary if you require a sitemap, functionalities such as computation of user hours, personnel presence and remote access control.



COMPONENTS

IDENTIFIERS



EM 125Khz



MIFARE 13,56Mhz



RF 868Mhz

READERS

KEYPAD. MEMOKEY



PROXIMITY READER. PRIVATE



FINGERPRINT.



COMBINED. DUAL FUNCTION



CONTROLLERS

ACCESS CONTROL Stand-alone



ACCESS CONTROL Centralised



ACPlus

Axes

ACCESS CONTROL

The **STAND-ALONE SYSTEMS** allow to control a door or an access. They are recommended for offices, garages, etc. SKYLINE readers can be integrated in audio or video door entry systems in order to grant the access to the building to neighbours or employees.

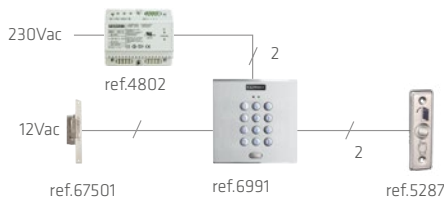
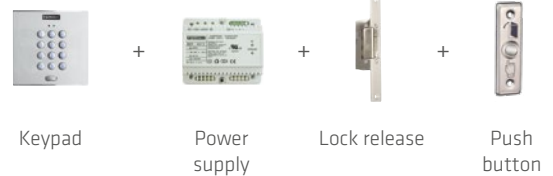


1. KEYPAD (PIN)

MEMOKEY KEYPAD

→ INTEGRATED CONTROLLER

- 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.



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).



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

Reader dimensions ST1: 150x180
Flush box dim. ST1: 130x160x55.

STAND-ALONE

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

+



Power supply

+



Lock release

+



Push button

+



Identifiers



ref.5293

Keypad dimensions: 55x147x20mm

5238 RESISTANT MEMOKEY KIT

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

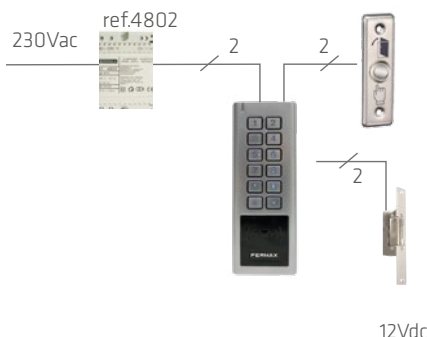
5293 RESISTANT KEYPAD W/PROXIMITY

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.



ref.23361/ref.52750



ref.52740



ref.4515

IDENTIFIERS

52750 PROXIMITY CARD MIFARE FERMAX



52740 PROXIMITY KEYPAD FERMAX MIFARE



23361 EM FERMAX PROXIMITY CARD



2336 EM PROXIMITY CARD WITH MAGNETIC BAND



4515 PROXIMITY KEYPAD



2. PROXIMITY (CARD)

PRIVATE READER

→ INTEGRATED CONTROLLER

- 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.



Reader



Identifiers



Power supply



Lock release



Push button



ref.6992



ref.7440

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



ref.5472

Reader dimensions ST1:
150x180



ref.2306

4905 CITYLINE PRIVATE KIT

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

6992 CITYLINE PROXIMITY READER

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

7440 SKYLINE PROXIMITY READER V

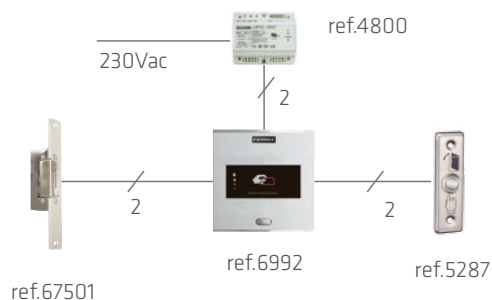
Accessory for SKYLINE and CITYLINE panels.

5472 MARINE PROXIMITY READER

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

IDENTIFIERS

- 2306 PRIVATE PROGRAMMING KEYPAD
- 23361 EM FERMAX PROXIMITY CARD
- 2336 EM PROXIMITY CARD WITH MAGNETIC BAND
- 4515 PROXIMITY KEYPAD

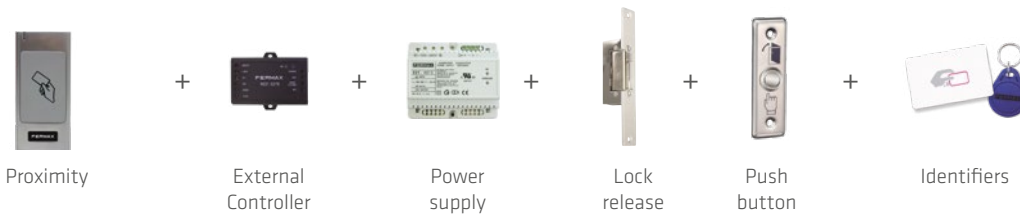


STAND-ALONE

RESISTANT PRIVATE READER

EXTERNAL CONTROLLER

- Reader with external controller WG.
- Allows different types of cards: **EM (125KHz), HID ISOProxII (125KHz) and MIFARE (13.56MHz).**
- 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).
- Allows for management of users according to their identifier code (0 to 999) using an infrared remote control.
- Power supply 12 Vdc.
- Programming with MASTER cards and through IR keypad included in controller ref.5276.



ref.5296



ref.6958



ref.7461

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). Keypad 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



ref.52750



ref.52740



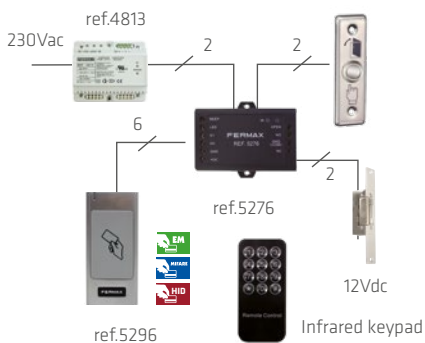
ref.23361
Customisable
Card



ref.4515

IDENTIFIERS

- | | | |
|-------|--------------------------------------|--|
| 52750 | PROXIMITY CARD MIFARE FERMAX | |
| 52740 | PROXIMITY KEYRING FERMAX MIFARE | |
| 23361 | EM FERMAX PROXIMITY CARD | |
| 2336 | EM PROXIMITY CARD WITH MAGNETIC BAND | |
| 4515 | PROXIMITY KEYRING | |



3. FINGERPRINT (BIOMETRIC)

FINGERPRINT READER

→ INTEGRATED CONTROLLER

- Fingerprint reader with proximity EM (125Kh) 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).
 - Recommended between 150-300 fingerprints/cards
 - Through PC SingularKey free software available at www.fermax.com (it is required to add the ref. 24661).

NOTE: Manually registered fingerprints cannot be managed using the Singular key PC software.



ref.6935

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



ref.6937



ref.6936



ref.5482

Reader dimensions ST1:
150X180

6935 CITYLINE FINGERPRINT READER

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

6937 CITY KEYPAD/FINGERPRINT

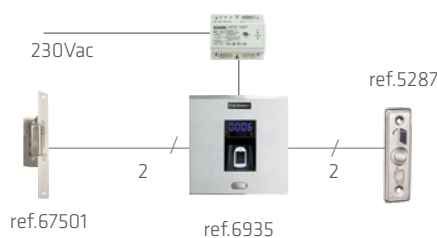
Flush mounted installation. Flush box included (ref.8855).
Optional surface box (ref.7065).
Reader dimensions S5: 130x246.
Flush box dimensions: 115x233x45.

6936 SKYLINE FINGERPRINT READER W

Accessory for SKYLINE and CITYLINE panels.

5482 MARINE FINGERPRINT READER

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



STAND-ALONE

INKEY MINI IP FINGERPRINT READER

→ INTEGRATED CONTROLLER

- Indoor or outdoor surface installation.
- IP 65 protection.
- Integrated Mifare proximity reader.
- 1,8" display navigable by pressing in the optical reader.
- 12Vcc. 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.
- Centralised operation: Wiegand 34 connection (IP AXES) and IP (free fingerprint management software available to download at www.fermax.com INKEY MINI).



Fingerprint reader

+



Power supply

+



Lock release

+



Push button

+



Identifiers



ref.5233



ref.5234



ref.4813



ref.67501



ref.5287



ref.4802



ref.24661



ref.23361
Personalizable



ref.4515



ref.52750



ref.52740

5233 INKEY MINI IP FINGERPRINT READER

Outdoor/Indoor. Surface mount. Size: 48x138x38.

5234 USB INKEY MINI FINGERPRINT READER

Indoor. Desktop reader.

ACCESSORIES

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

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

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

67524 UNIV. LOCK RELEASE 990A-S MAXC/DC

5287 FLUSH MOUNTED PUSH BUTTON

5288 SURFACE MOUNTED PUSH BUTTON

1076 MAGNETIC CONTACT

INKEY ACCESSORIES

4802 POWER SUPPLY DIN4 230VAC 12VAC/1A

23361 EM FERMAX PROXIMITY CARD

4515 PROXIMITY KEYRING

24661 USB TO RS-485 PC ADAPTOR

INKEY MINI ACCESSORIES

52750 PROXIMITY CARD MIFARE FERMAX

52740 PROXIMITY KEYRING FERMAX MIFARE

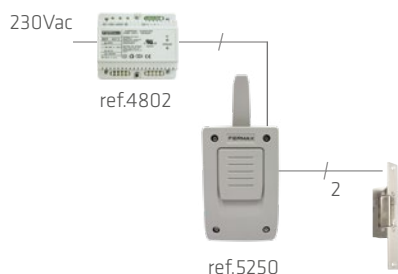
2013 ADDITIONAL FUNCTIONS RELAY

4. RADIOFREQUENCY (868MHz)

RF RECEIVER

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

EXTERNAL CONTROLLER



ref.5291



ref.5259



ref.5231



ref.5258



ref.4802



ref.4813

5249 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.

IDENTIFIERS

5259 RF KEYSINGLE-MINI EMITTER

5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH.

5232 RF KEYSINGLE-PLUS EMITTER 4 PUSH.

ACCESSORIES

4802 POWER SUPPLY DIN4 230VAC 12VAC/1A

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

4813 POWER SUPPLY DIN4 100-240VAC 12VAC/2A

67501 UNIV. LOCK RELEASE 990N-P22 MAX 10-24VAC/DC

67521 LOCK RELEASE 990A-P22 12-24VAC/DC

CENTRAL UNIT AND CONTROLLER



ref.4410

4410 AC+ CENTRAL UNIT (DIN10)

Memory up to 3.000 offline events. It manages up to 32 accesses and 1 Central Unit.



ref.4420

4420 DOOR CONTROLLER

It allows the connection of Wiegand 26 readers, data/ clock.

ACCESSORIES



ref.4813



ref.2060

POWER SUPPLY

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

General power supply. 1 power supply per each 6 accesses is required.

2060 BATTERY ADAPTOR 12VDC (DIN6)

It is installed between the power supply and the system. It has a connection with an external PB-Acid battery.

2070 BATTERY 12V/2,2A



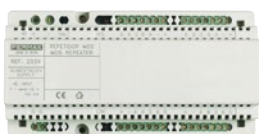
ref.5239/5240

USB DESKTOP READERS

Desktop readers with USB cable allows you to add cards / proximity keyrings directly from the PC, without having to move forward the reader in the installation.

5239 USB CARD READER EM (125KHz)

5240 USB CARD READER MIFARE (13,56Mhz)



ref.2339

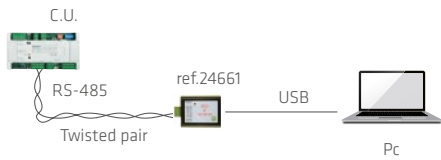
LONG DISTANCES BETWEEN DEVICES

2339 MDS REPEATER

It is required for distances of over 1.200m between door controllers or decoders and the Central Unit (ref.4410).

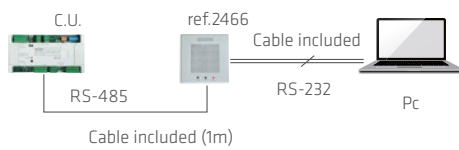
PC INTERFACE

Devices for programming and setting up the Central Unit and decoders from the PC.



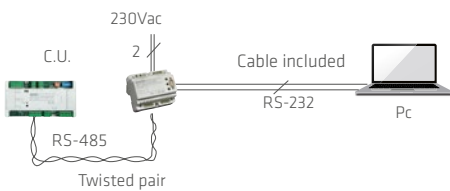
24661 USB a RS-485 PC ADAPTOR

Connection between PC (USB) and Central Unit. Direct power supply from USB. Drivers included.



2466 PC DECODER PROGRAMMING MODULE

Maintenance of installations that do not have a permanent connected PC, as installer tool. It includes RS-232 cable with DB-9 connector for PC connection and IP adaptor ref.1087.



2338 RS-232 to RS-485 PC ADAPTOR

Connection between PC and Central Unit (or network of centrals). Connection to PC: RS-232. Max.: 30m (cable included: 3m). Connection to Central: RS-485 (twisted pair). Max.: 1.200m. DIN6. Power supply: 230Vac.

READERS WITH INTEGRATED CONTROLLER



ref.6992



ref.6994

6992 CITYLINE PROXIMITY READER

6994 MDS CITY KEYPAD

It includes flush box S1 (ref.8948): 115x114x45.



ref.6995

6995 CITYLINE PROX/KEYPAD READER

It includes flush box S4 (ref.8949): 130x199.



ref.7440



ref.7453/ref.7457

7440 SKYLINE PROXIMITY READER V

7453 AC+SKYLINE KEYPAD W

7457 DUOX DIGITAL KEYPAD W

It allows combination with proximity (ref. 7440) or fingerprint (ref. 6936), adding the ref. 4420.



ref.5472



ref.4696

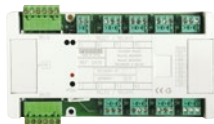
5472 MARINE PROXIMITY READER

4696 AC+ MARINE KEYPAD

It includes flush box ST1 (ref.4641): 130x160x55.



ref.2013



ref.2430

ACCESSORIES

These controllers require an external relay to activate a lock release with more than 500mA consumption or inverted operation.

2013 ADDITIONAL FUNCTIONS RELAY

3491 DIN RELAY 12VDC/12A

2430 8 MDS/AC+ RELAY DECODER. DIN10

Secure activation of the lock-release from the inside. The 8 outputs are programmable from the software DECOWIN. Available at www.fermax.com

2429 8 MDS/AC+ SENSOR DECODER. DIN10

Manages 8 sensors: door contacts, presence, lighting, etc. The 8 inputs are programmable from the software DECOWIN. Available at www.fermax.com

READERS WITH EXTERNAL CONTROLLERS



ref.4420

Recommended for higher security applications, where the electronics are located in an **independent external controller (ref.4420)**. One per reader is required.

4420 DOOR CONTROLLER

Accepts Wiegand-26 bit or magstrip (Data/Clock) readers. Incorporates one relay to activate the lock release and another relay for auxiliary functions. Accepts a reader for entrance and another for exit, exit button, door sensor, free access button. It's installed in 100x100mm boxes.



ref.6992
ref.6958
S1: 130x128
Caja ref.8948



ref.6995
S4: 130x199
Caja ref.8854

6992 CITYLINE PROXIMITY READER

6958 CITYLINE WG MIFARE/EM PROXIMITY READER

6995 CITYLINE PROX/KEYPAD READER



ref.7440 EM
ref.7461
EM MIFARE HID



ref.5472 EM
ST1: 150x180
Caja ref.4641



ref.6936 EM



ref.5190



ref.5191



ref.5192



ref.6935 EM



ref.6937 EM
S5: 130x246
Caja ref.8855



ref.5482 EM
ST1: 150x180
Caja ref.4641



ref.5293



ref.5296



ref.5266



ref.23361
Personalizable



ref.4515



ref.5259



ref.5231






- 7440 SKYLINE PROXIMITY READER V
- 7461 SKYLINE WG MIFARE/EM PROXIMITY READER V
- 5472 MARINE PROXIMITY READER

- 5190 WIEGAND CITYLINE KEYPAD
- 5191 WIEGAND SKYLINE KEYPAD
- 5192 WIEGAND MARINE KEYPAD

- 6935 CITYLINE FINGERPRINT READER
- 6937 CITY KEYPAD/FINGERPRINT
- 5482 MARINE FINGERPRINT READER
- 6936 SKYLINE FINGERPRINT READER W

- 5296 RESISTANT PROXIMITY READER
- 5293 RESISTANT KEYPAD W/PROXIMITY
It reads cards MIFARE and EM.
- 5266 RF-WIEGAND RECEIVER 12 VDC
It requires emitter.

IDENTIFIERS

- 23361 EM FERMAX PROXIMITY CARD 
- 2336 EM PROXIMITY CARD WITH MAGNETIC BAND 
- 4515 PROXIMITY KEYRING 
- 52740 PROXIMITY KEYRING FERMAX MIFARE 
- 52750 PROXIMITY CARD MIFARE FERMAX 
- 5259 RF KEYSINGLE-MINI EMITTER
- 5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH.
- 5232 RF KEYSINGLE-PLUS EMITTER 4 PUSH.

An IP system for buildings with intuitive management, advanced features and total flexibility. The system allows for the remote management with absolute flexibility for projects of great magnitude and complexity. The control of the installation is performed through assistants that guide the professional on creating its own configuration.



1. CENTRALISED IP_AXES

The software that runs the installation via TCP/IP is totally intuitive.

- Installation and user creation wizard.
- **Count down.**
- **Lift control.**
- E-mail alert sending.
- Guest management.
- Enables real-time sitemap viewing/remote control for status of: doors, readers, analogue entrances, exits and **counters.**
- Automatic IP address detection.
- **Voice messages.**
- Multiple identifiers per user.
- Creation of direct accesses and automatic systems.
- Users presence management.
- **Presence time.** Total hours per user.
- Visitors management.
- CCTV integration.

COMPOSITION

EXTERNAL CONTROLLER



Central Unit

+



Expansion Modules

+



Licence

+



Power supply

+



Battery

+



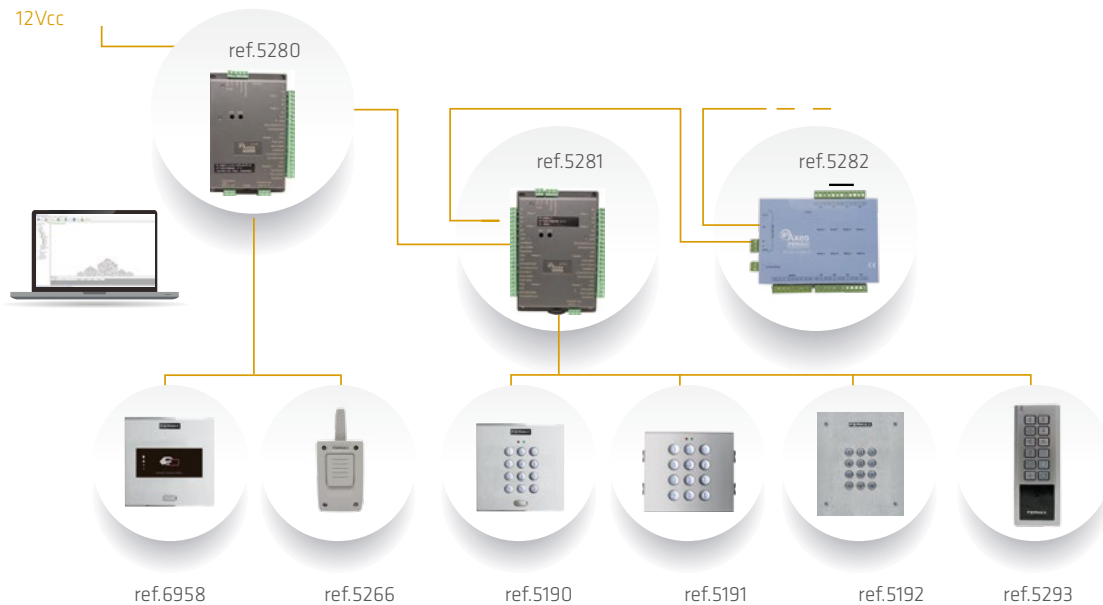
Reader

+



Identifier

UNIFILAR DIAGRAM



SYSTEM CAPACITIES	
SYSTEMS	Centralised.
TYPE OF READERS	Prox: City, Marine, Skyline, Resistant. Keypad: Resistant (with proximity). RF. Long-range.
COMPATIBILITY WITH CITY, MARINE AND SKYLINE	Yes (City, Skyline, Marine)
MAX. N° OF USERS	50.000
NUMBER OF DOORS (1 reader per door)	840
MAX. N° CENTRAL UNITS OR CONTROLLER	64 (up to 10 expansion modules per central unit).
MANAGEMENT CONNECTION	TCP/IP
EVENTS MANAGEMENT	15.000
RELAYS AND SENSORS	Up to 5.120 I/O
LICENSES	Necessary for installations of more than 2 readers or modules IP_AXES 12/4 Licenses for 10/40/80/140 readers.
SOFTWARE OR TOOL	Free software.
SCALABLE AND EXPANDABLE	Yes

SOFTWARE FEATURES	
NAME	IP_AXES
EASE OF USE	High
BASIC FEATURES	
EVENT LOG	Real time
LIFT CONTROL	Yes
USER PROFILES	Yes
ANTI-PASSBACK	Yes
ALARM INTERFACE	Yes
PASS COUNTING	Yes
ADVANCED FEATURES	
CCTV INTEGRATION	Yes
APERIO WIRELESS DOOR LOCK SYSTEM INTEGRATION	Yes
IP/WG FINGERPRINT READER THIRD PARTY	Yes
MILESTONE COMPATIBILITY	Yes
SITE MAP	Yes
DOOR OPENING BY SOFTWARE	Yes
OUTLOOK INTEGRATION	Yes
DATABASE	My SQL
MAIL NOTICE	Yes
VISIT MANAGEMENT	Yes
ALARM INTERFACE	Yes
MULTI-CLIENT SOFTWARE	Yes
ASSISTANCE	Yes
REMOTE TCP/IP CONNECTION	Yes
I/O MANAGEMENT (ALARMS, ETC.)	Advanced

CENTRAL



ref.5280

5280 IP_AXES 1/2 CENTRAL CONTROLLER

Central controller allows for the connection of one or two doors with WIEGAND readers and extension up to 10 expansion modules by RS-485, maximum distance 750mts. Requires 12Vdc power supply, ref.4813. Power supply 12Vdc/2A recommended. Dimensions: 160x120x30mm.

EXPANSORS



ref.5281



ref.5282

5281 IP_AXES 4 EXPANSION

4-door extension module. Requires 12Vdc power supply, ref. 4813 recommended. Dimensions: 160x120x30mm.

5282 IP_AXES I/O EXPANSION

Extension module for 8 inputs and 8 outputs. Recommended for lift management. 8 levels per module. Dimensions: 160x120x30mm.

POWER SUPPLY



ref.4813



ref.2060

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

1 power supply ref.4813 per each central or 4-door extension module.

2060 BATTERY ADAPTOR 12VDC (DIN6)

2070 BATTERY 12V/2,2A

LICENCES



Licence

Necessary for installations of more than 1 central controller or 4-readers expansion module.

5283 10 READERS IP_AXES LICENSE

5284 40 READERS IP_AXES LICENSE

5285 80 READERS IP_AXES LICENSE

5286 140 READERS IP_AXES LICENSE

READERS



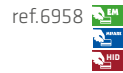
ref.5472



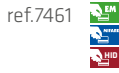
ref.6992



ref.7440



ref.6958



ref.7461



ref.5293



ref.5296



ref.5190



ref.5191



ref.5192



ref.5233



ref.5234

Cityline readers require an additional cable (ref.2545) to connect with IP_AXES.

6992 CITYLINE PROXIMITY READER

7440 SKYLINE PROXIMITY READER V

5472 MARINE PROXIMITY READER

2545 PROXIMITY CONNECTION CABLE (4 WIRES)

6958 CITYLINE WG MIFARE/EM PROXIMITY READER

7461 SKYLINE WG MIFARE/EM PROXIMITY READER

The WG/MIFARE/EM readers do not require to add any additional cable.

5190 WIEGAND CITYLINE KEYPAD

5191 WIEGAND SKYLINE KEYPAD

5192 WIEGAND MARINE KEYPAD

5293 RESISTANT KEYPAD W/PROXIMITY

5296 RESISTANT PROXIMITY READER

5233 INKEY MINI FINGERPRINT READER

5234 USB INKEY MINI FINGERPRINT READER

Management of fingerprints and MIFARE cards through INKEY MINI software (free at www.fermax.com)

RECEIVERS



ref.5266

5266 RF-WIEGAND RECEIVER 12 VDC

Wiegand receiver RF. It performs the identification by a remote control up to 100m. Surface.
Dimensions: 77x180x30mm.

IDENTIFIERS



ref.23361/2336



ref.4515

23361 EM FERMAX PROXIMITY CARD

2336 EM PROXIMITY CARD WITH MAGNETIC BAND

4515 PROXIMITY KEYRING



ref.52750



ref.52740

52740 PROXIMITY KEYRING MIFARE FERMAX

52750 PROXIMITY CARD MIFARE FERMAX

Compatible with receivers ref.5266.



ref.5259

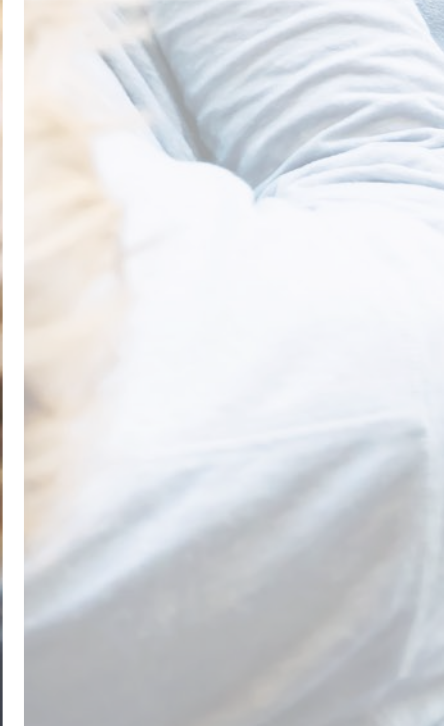
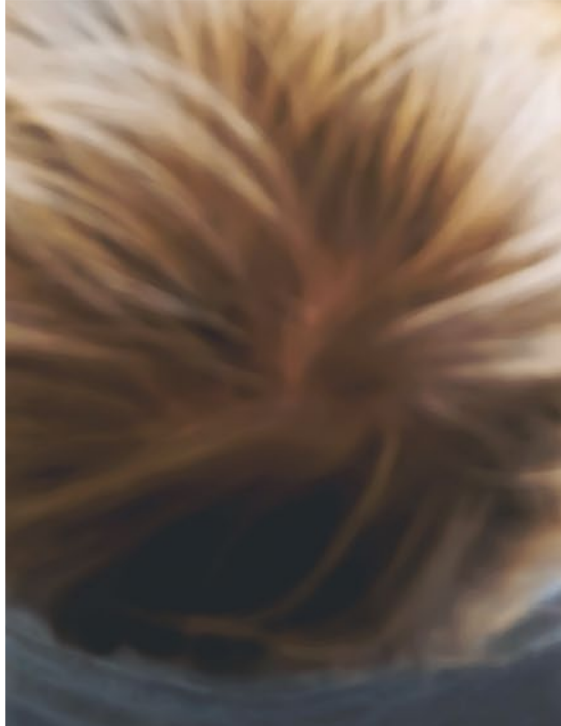
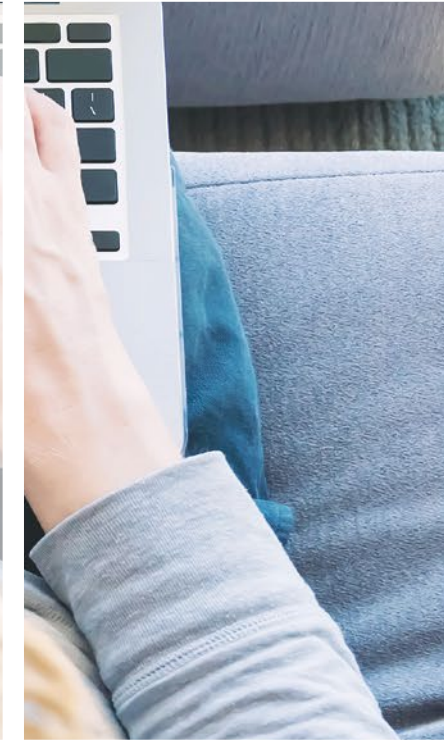


ref.5231

5259 RF KEYSINGLE-MINI EMITTER

5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH.

5232 RF KEYSINGLE-PLUS EMITTER 4 PUSH.





TECHNICAL INFORMATION

Diagrams
Tables

FERMAX

WAY VIDEO KITS FEATURES

PL²
Plug&Play

Technology
2 wires

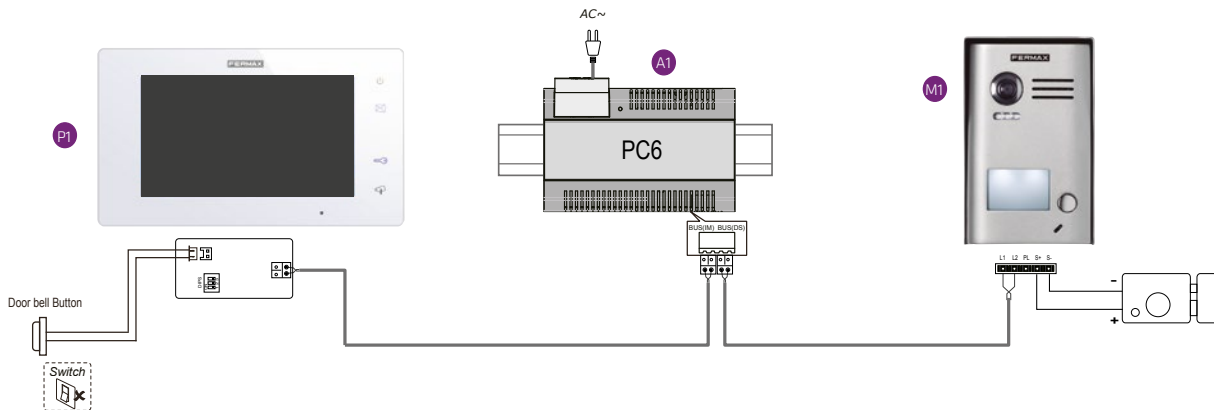


2 WIRES WAY VIDEO KITS	WAY-FI KIT 1431	WAY KIT 1401/1402
OUTDOOR PANEL		
Finish	Aluminium	Zamak
Mounting	Surface	
Output +12Vdc for lock release	Yes	
Recommended lock release	Normal lock release with unlocking and adjustable latch 990ND-P22 MAX (ref.67511)	
Free potential contact	Yes	
Angular camera	Yes (120°)	Yes (104°)
Voice synthesiser ("The door is...")	-	
Integrated access control	-	
Compatible with relay for 2 nd door opening	Relay integrated in amplifier	Yes (relay ref.1418)
Hood included	Yes	
IP	44	43
Dimensions mm (with hood)	164x94x34	95x155x39
Possibility to add 2 nd panel	Yes (no additional device required)	Yes (Switcher/WAY Distr. ref. 1419)
MONITOR		
Conversation mode	Hands-free	
Screen	7" touch	
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)	Yes	
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

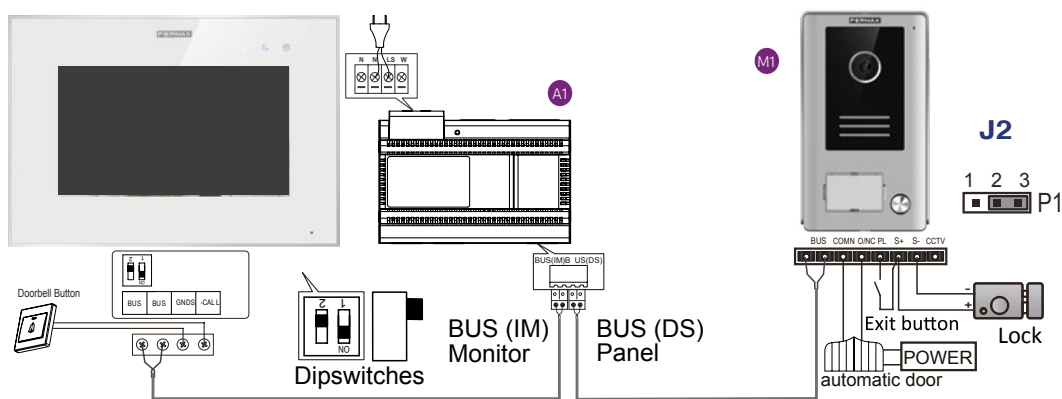
WAY VIDEO KITS DIAGRAM

WAY KIT (ref.1401) 1 WIRE

- P1** WAY 1W Panel (ref.1416).
- A1** Power Supply KIT WAY DIN8 26Vdc-2A (ref.1410).
- M1** WAY 7" TFT COLOUR Monitor (ref.1412).



- P1** WAY-FI/1W Panel (ref.1438).
- A1** Power Supply KIT WAY-FI DIN8 26Vdc-2A (ref.1440).
- M1** WAY-FI 7" TFT COLOUR Monitor (ref.1436).



iPhone



Android

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

DUOX VIDEO KITS FEATURES

PL²
Plug&Play

2 wires
DUOX



DUOX VIDEO KITS	VEO-XS WIFI KIT	VEO WIFI KIT	VEO KIT	VEO-XS KIT	VEO-XS MARINE KIT	VEO ONE-TO-ONE KIT	VEO MEMOVIS. KIT	VEO-XS MEMOVIS. KIT
	9451	9441	9421/9422	9431/9432	5073	4908	4907	4912
OUTDOOR PANEL								
Finish	Aluminium and chromed zamak				316L Stainless Steel	Aluminium and chromed zamak		
Mounting	Flush mounted (Optional: surface with its corresponding box)							
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							
Wide angle camera	Yes (Horizontal angle: 92°; Vertical angle: 70°)							
Voice synthesiser ("The door is...")	Yes							
Integrated access control	-						Yes, keypad	
Accessibility icons	-					Yes		-
IP/IK	IP43 IK07				IP54 IK09	IP43 IK07		
Panel dimensions (mm)	130x128				150x180	130x199	130x246	
Flush box dimensions (mm)	115x114x45				130x160x55	115x185x45	115x233x45	
MONITOR								
Conversation mode	Hands-free	With handset		Hands-free	With handset		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	Yes							
Date and hour control	Yes							
Doormatic	Yes	-		Yes	-		Yes	
Door bell	Yes							
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. Maximum 3 per installation)							
Dimensions (mm)	125x165x21	200x200x21		125x165x21	200x200x21		125x165x21	
Decorative frame	ref.3388 (120x240) or ref.3389 (210x240)	ref.3389 210x240		ref.3388 (120x240) or ref.3389 (210x240)	ref.3389 210x240		ref.3388 (120x240) or ref.3389 (210x240)	

DUOX VIDEO KITS DIAGRAM

DUOX VIDEO KIT. INSTALLATION: 2 WIRES

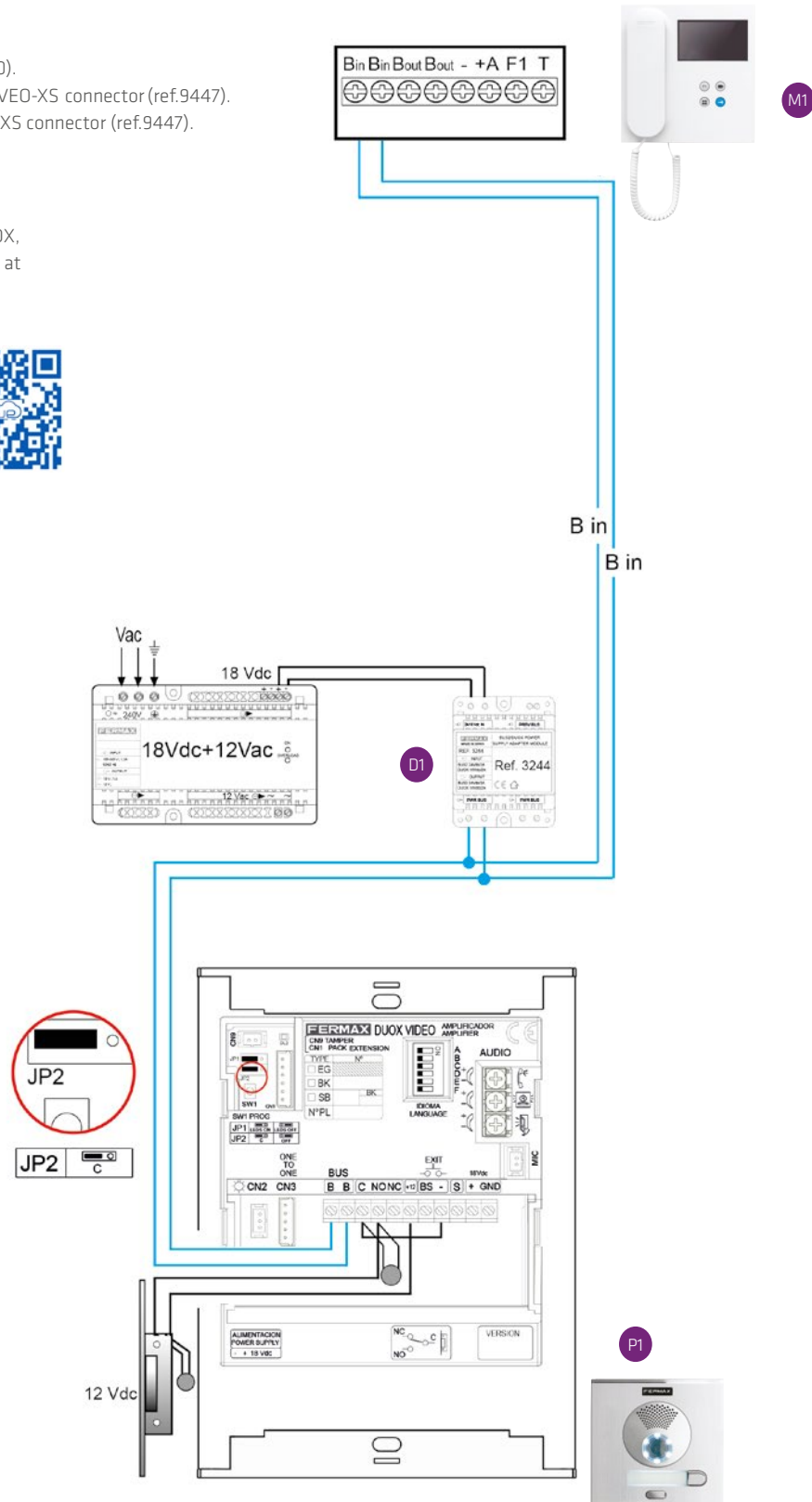
- P1** DUOX CITYLINE panel.
- F1** Lock release 12Vac/dc (ref.67511)*.
- A1** Power supply 18Vdc + 12Vac (ref.4810).
- M1** VEO WiFi monitor (ref.9446) + VEO/VEO-XS connector (ref.9447).
VEO monitor (ref.9445) + VEO/VEO-XS connector (ref.9447).
- D1** DUOX filter (ref.3244)

*Not included in the kit.



For more information about DUOX,
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 PANELS FEATURES

SKYLINE GENERAL FEATURES

Panel	Modular. 2 module sizes (V, W). Total: 28 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, +55°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, +55°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, +55°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 (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.

DUOX MONITORS FEATURES

GENERAL FEATURES	9445	9448
Technology	DUOX (Full digital. 2 non polarised wires)	
Audio/video system	Audio/Colour video	
Mounting	Surface: order connector ref.9447	
Desktop support	ref.9410	ref. 9420
Handset with magnet to facilitate the hang up	Yes	-
Hands free communication	-	Yes
Optional communication: press-to-talk	-	Yes
Induction loop version	Yes (ref. 9455)	Yes (ref. 9458)
Screen dimensions	4,3" (Panoramic 16:9)	
Screen resolution (H x V)	480x272	
Colour of the product	Matt White	
Number of push buttons	4	5
Kind of push buttons	Mechanical (silicon)	
Number of leds for light indicators	1 (red with 3 states: always ON, slow/fast blinking)	3 (red, blue and green with different states)
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/call, until 150 photos, 320x240 pixels) This feature can be disabled by the user.	
Guard unit call	Yes (from the door opener button)	
Auto-on	Yes (with 3 outdoor panels)	
OSD menu	Yes	
Additional function F1	Yes (auxiliary command)	
Additional function F2	Yes (auxiliary command)	
Apartment door bell differentiated from the outdoor panel	Yes	
Connection for additional call devices (call extension, light/buzzer activator, etc.)	Yes (ref.2040, ref.2438, ref.3257)	
Additional terminals on the same address	Yes, max. 2 additional terminals (additional power supply can be required)	
Doormatic (automatic door release for offices, etc.)	-	Yes (configurable up to 12h) Green led ON.
CONTROLS		
Date and time	Yes	
Ring tone selection	Yes (5)	
Call volume control	Yes (8 levels by OSD menu)	Yes (8 levels by OSD menu and sliding wheel)
"Do Not Disturb" function	Yes (by OSD menu) + red led blinking	
Audio volume control	Yes (8 levels by OSD menu)	Yes (8 levels by OSD menu and sliding wheel)
Adjustment of brightness, contrast and colour	Yes (by OSD menu)	
TECHNICAL FEATURES		
Product dimensions (width x height x depth) mm	200x200x23 (44 w/handset)	125x165x21
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 (W)	5,2	6,5 (14,4 with the induction loop on)
Standby consumption (W)	0,8	0,8
Working temperature (°C)	[-5°C, +40°C]	
Humidity	[0%, 90%]	
Product weight (kg)	0,6	0,3
Connections	Bin, Bin, Bout, Bout, -, +A, F1, T	
Line adaptor included in the monitor	Yes (A, C, default position OFF)	

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



DUOX WiFi MONITORS FEATURES

GENERAL FEATURES	9446	9449
Technology	DUOX (Full digital. 2 non polarised wires)	
Audio/video system	Audio/Colour video	
Mounting	Surface: orde connector ref.9447	
Desktop support	ref.9410	ref. 9420
Handset with magnet to facilitate the hang up	Yes	-
Hands free communication	-	Yes
Optional communication: press-to-talk	-	Yes
Induction loop version	-	Yes (ref. 9459)
Screen dimensions	4,3" (Panoramic 16:9)	
Screen resolution (H x V)	480x272	
Colour of the product	Matt White	
Number of push buttons	4	5
Kind of push buttons	Mechanical (silicon)	
Number of leds for light indicators	2 (red with 3 states: always ON, slow/fast blinking; white: for the wifi)	4 (red, blue, green with different states and white for Wifi)
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/call, until 150 photos, 320x240 pixels) This feature can be disabled by the user.	
Guard unit call	Yes (from the door opener button)	
Auto-on	Yes (with 3 outdoor panels)	
OSD menu	Yes	
Additional function F1	Yes (auxiliary command)	
Additional function F2	Yes (auxiliary command)	
Apartment door bell differentiated from the outdoor panel	Yes	
Connection for additional call devices (call extension, light/buzzer activator, etc.)	Yes (ref.2040, ref.2438, ref.3257)	
Additional terminals on the same address	Yes, max. 2 additional terminals (additional power supply can be required)	
Doormatic (automatic door release for offices, etc.)	-	Yes (configurable up to 12h) Green led ON.
CONTROLS		
Date and time	Yes	
Ring tone selection	Yes (5)	
Call volume control	Yes (8 levels by OSD menu)	Yes (8 levels by OSD menu and sliding wheel)
"Do Not Disturb" function	Yes (by OSD menu) + red led blinking	
Audio volume control	Yes (8 levels by OSD menu)	Yes (8 levels by OSD menu and sliding wheel)
Adjustment of brightness, contrast and colour	Yes (by OSD menu)	
TECHNICAL FEATURES		
Product dimensions (width x height x depth) mm	200x200x23 (44 w/handset)	125x165x21
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 (W)	5.6	6.9 (14,4 with the induction loop on)
Standby consumption (W)	1.3	1.3
Working temperature (°C)	[-5°C, +40°C]	
Humidity	[0%, 90%]	
Product weight (kg)	0,6	0,3
Connections	Bin, Bin, Bout, Bout, -, +A, F1, T	
Line adaptor included in the monitor	Yes (A, C, default position OFF)	

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 With pre-view before audio communication is on.	Audio and Video from outdoor panels/concierge units.
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 (stairlight 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 TELEPHONES FEATURES

GENERAL FEATURES	3421	3422	3430
Technology	DUOX (Full digital. 2 non polarised 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
Induction loop version	Yes (replace handset for 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 (red)	3 (red, blue and green)
TERMINAL ADDRESS PROGRAMMING			
From the indoor terminal	-		
From the outdoor panel or guard unit	Yes		
From the outdoor panel through the door bell (outside the residence)	Yes		
FEATURES			
Guard unit call	Yes (from the door opener button)		
Auto-on	Yes (only with No. 0 panel from its own block)		Yes (only with No.0 panel from its own block) Not with audio panels
Additional function F1	-	Yes (F1 button, auxiliary command)	
Additional function F2	-	(F2 button, auxiliary command)	-
Apartment door bell differentiated from the outdoor panel	Yes		
Connection for additional call devices (call extension, light/buzzer activator, etc.)	Yes (ref.2040, ref.2438, ref.3457)		
Additional terminals on the same address	Yes, max. 2 additional terminals (additional power supply can be required)		
Doormatic (automatic door release for offices, etc.)	-	Yes (red led indication)	Yes (green led indication)
CONTROLS			
Ring tones selection	Yes (5)		
Call volume control	Yes (3 positions)	Yes (by sliding wheel)	
"Do Not Disturb" function	Yes (3 positions)	Yes (by sliding wheel) + red led indication	
Audio volume control	-		Yes (by sliding wheel)
TECHNICAL FEATURES			
Dimensions (width x height x depth) mm	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	18Vdc		
Maximum consumption (mA)	300		320
Standby consumption (mA)	20		
Working temperature (°C)	[-5°C, +40°C]		
Humidity	[0%, 90%]		
Product weight (kg)	0,34	0,35	0,16
Line adaptor included in the terminal	-		Yes (A, C, default position OFF)

PROJECT MATERIALS LIST

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

No. APART.	SERIES	SKYLINE PANEL	FLUSH BOX	FRAME 4V	FLUSH BOX	FRAME 5V	FLUSH BOX	FRAME 6V	FLUSH BOX	FRAME 7V	FLUSH BOX	FRAME 8V	FLUSH BOX	JOINING BOLTS	CABLE	AMPLIF. MODULE	PUSH BUTTON MODULES	BLANK MODULES	POWER SUPPLY	FILTER	LINE ADAPTOR	VEO MONIT. + CONNECT.	VEO-XS MON. + CONNECT.	
		ref. 7333	ref. 8854	ref. 7334	ref. 8855	ref. 7335	ref. 8856	ref. 7336	ref. 8857	ref. 7337	ref. 8858	ref. 7338	ref. 8982	ref. 8829	ref. 2541	ref. VIDEO	201	202	204	V	2V	ref. 4830	ref. 3244	ref. 3255
2	S4	1	1													1	1		1	1	2	2	2	
4	S4	1	1													1	1		1	1	2	4	4	
6	S5			1	1											1	1		1	1	2	6	6	
8	S5			1	1											1	1		1	1	2	8	8	
10	S6					1	1									1	1		1	1	2	10	10	
12	S6					1	1			1	1					1	1		1	1	2	12	12	
14	S7							1	1							1	1		1	1	2	14	14	
16	S7							1	1							1	2		1	1	2	16	16	
18	S8									1	1					1	2		1	1	2	18	18	
20	S8									1	1					1	2		1	1	2	20	20	
22	S9											1	1			1	2		1	1	2	22	22	
24	S9											1	1			1	3		1	1	2	24	24	
24	S5			2	2									1	1	1	3		1	1	2	24	24	
26	S6					2	2							1	1	1	2	1	1	1	2	26	26	
28	S6					2	2							1	1	1	3	1	1	1	2	28	28	
30	S6					2	2							1	1	1	3		1	1	2	30	30	
32	S6					2	2							1	1	1	3		1	1	2	32	32	
32	S7							2	2					1	1	1	4	1	1	1	2	32	32	
34	S7							2	2					1	1	1	4	1	1	1	2	34	34	
36	S7							2	2					1	1	1	4	1	1	1	2	36	36	
38	S7							2	2					1	1	1	4		2	2	2	38	38	
40	S7							2	2					1	1	1	5		2	2	2	40	40	

If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1,5A) is required. Universal lock release ref.67501 - 990N-P22MAX. The quantity of PSU+Filter can change depending on the cable used. (See pag.48)

PROJECT MATERIALS LIST



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

SKYLINE PANEL	FRAME 3V	FLUSH BOX	FRAME 4V	FLUSH BOX	FRAME 5V	FLUSH BOX	FRAME 6V	FLUSH BOX	FRAME 7V	FLUSH BOX	FRAME 8V	FLUSH BOX	JOINING BOLTS	CABLE	AMPLIF. MODULE	PUSH BUTTON MODULES	BLANK MODULES	POWER SUPPLY	FILTER	LINE ADAPTOR	VEO WIFI MONIT.+ CONNECT.	VEO-XS WIFI MON.+ CONNECT.		
	ref. 7333	ref. 8854	ref. 7334	ref. 8855	ref. 7335	ref. 8856	ref. 7336	ref. 8857	ref. 7337	ref. 8858	ref. 7338	ref. 8982	ref. 8829	ref. 2541	VIDEO ref. 7391	201 ref. 7376	202 ref. 7372	204 ref. 7371	V ref. 7442	2V ref. 7443	ref. 4830	ref. 3244	ref. 3255	ref. 9446 + ref. 9447
2	S4	1	1												1	1			1	1	2	2	2	2
4	S4	1	1												1	1			1	1	2	4	4	4
6	S5		1	1											1	1			1	1	2	6	6	6
8	S5		1	1											1	1	1		1	1	2	8	8	8
10	S6				1	1									1	1	1		1	1	2	10	10	10
12	S6				1	1									1	1	1		1	1	2	12	12	12
14	S7					1	1								1	1	1		1	1	2	14	14	14
16	S7					1	1								1	1	2		1	1	2	16	16	16
18	S8							1	1						1	1	2		1	1	2	18	18	18
20	S8							1	1						1	1	2		1	1	2	20	20	20
22	S9								1	1					1	1	2		2	2	2	22	22	22
24	S9								1	1					1	1	3		2	2	2	24	24	24
24	S5			2	2								1	1	1	3		2	2	2	2	24	24	24
26	S6				2	2							1	1	1	2	1	2	2	2	2	26	26	26
28	S6				2	2							1	1	1	3	1	2	2	2	2	28	28	28
30	S6				2	2							1	1	1	3		2	2	2	2	30	30	30
32	S6				2	2							1	1	1	3		2	2	2	2	32	32	32
32	S7						2	2					1	1	1	4		2	2	2	1	32	32	32
34	S7						2	2					1	1	1	4	1	2	2	2	2	34	34	34
36	S7						2	2					1	1	1	4	1	2	2	2	2	36	36	36
38	S7						2	2					1	1	1	4		2	2	2	2	38	38	38
40	S7						2	2					1	1	1	5		2	2	2	2	40	40	40

If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1,5A) is required. Universal lock release ref.67501 - 990N-P22MAX. The quantity of PSU+Filter can change depending on the cable used. (See pag.48)
For installations where WiFi and non-WiFi monitors are combined, in the consumption tables one WiFi monitor is equivalent to 3 NON-WiFi monitors..

PROJECT MATERIAL LIST

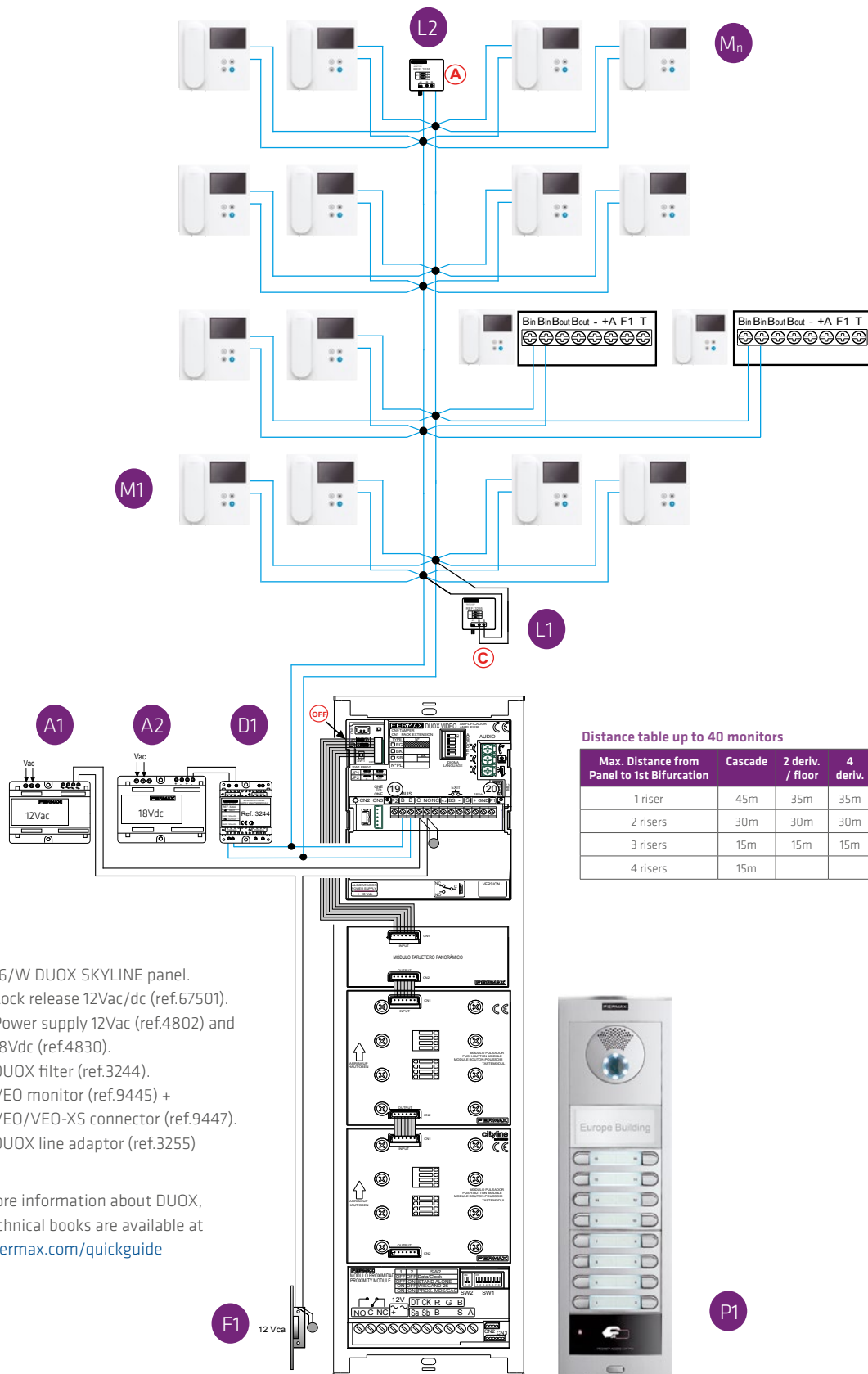
DUOX AUDIO. SKYLINE PANEL / LOFT TELEPHONE

No. APART.	SERIES	FRAME 3V	FLUSH BOX	FRAME 4V	FLUSH BOX	FRAME 5V	FLUSH BOX	FRAME 6V	FLUSH BOX	FRAME 7V	FLUSH BOX	FRAME 8V	FLUSH BOX	JOINING BOLTS	CABLE	AMPLIF. MODULE	PUSH BUTTON MODULES	BLANK MODULES	POWER SUPPLY	FILTER	LINE ADAPTOR	LOFT TELEPHONE	LOFT TELEPHONE		
		ref. 7333	ref. 8854	ref. 7334	ref. 8855	ref. 7335	ref. 8856	ref. 7336	ref. 8857	ref. 7337	ref. 8858	ref. 7338	ref. 8882	ref. 8829	ref. 2541	ref. 7391	ref. 201	ref. 202	ref. 204	V	2V	ref. 4830	ref. 3244	ref. 3255	ref. 3421
2	S4	1	1													1	1		1	1	2	2	2	2	
4	S4	1	1													1	1		1	1	2	2	2	2	4
6	S5			1	1											1	1		1	1	2	2	2	2	6
8	S5			1	1											1	1		1	1	2	2	2	2	8
10	S6					1	1									1	1		1	1	2	2	2	2	10
12	S6					1	1									1	1		1	1	2	2	2	2	12
14	S7							1	1							1	1		1	1	2	2	2	2	14
16	S7							1	1							1	1		1	1	2	2	2	2	16
18	S8									1	1					1	1		1	1	2	2	2	2	18
20	S8									1	1					1	1		1	1	2	2	2	2	20
22	S9											1	1			1	1		1	1	2	2	2	2	22
24	S9															1	1		1	1	2	2	2	2	24
24	S5			2	2									1	1	1	1		1	1	2	2	2	2	24
26	S6													1	1	1	1		1	1	2	2	2	2	26
28	S6													1	1	1	1		1	1	2	2	2	2	28
30	S6													1	1	1	1		1	1	2	2	2	2	30
32	S6													1	1	1	1		1	1	2	2	2	2	32
32	S7							2	2					1	1	1	1		1	1	2	2	2	2	32
34	S7													1	1	1	1		1	1	2	2	2	2	34
36	S7													1	1	1	1		1	1	2	2	2	2	36
38	S7													1	1	1	1		1	1	2	2	2	2	38
40	S7													1	1	1	1		1	1	2	2	2	2	40

If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1,5A) is required. Universal lock release ref.67501 - 990N-P22MAX. The quantity of PSU+Filter can change depending on the cable used. (See pag.48)

DUOX VIDEO DIAGRAM

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



Distance table up to 40 monitors

Max. Distance from Panel to 1st Bifurcation	Cascade	2 deriv. / floor	4 deriv.	6 deriv.
1 riser	45m	35m	35m	35m
2 risers	30m	30m	30m	
3 risers	15m	15m	15m	
4 risers	15m			

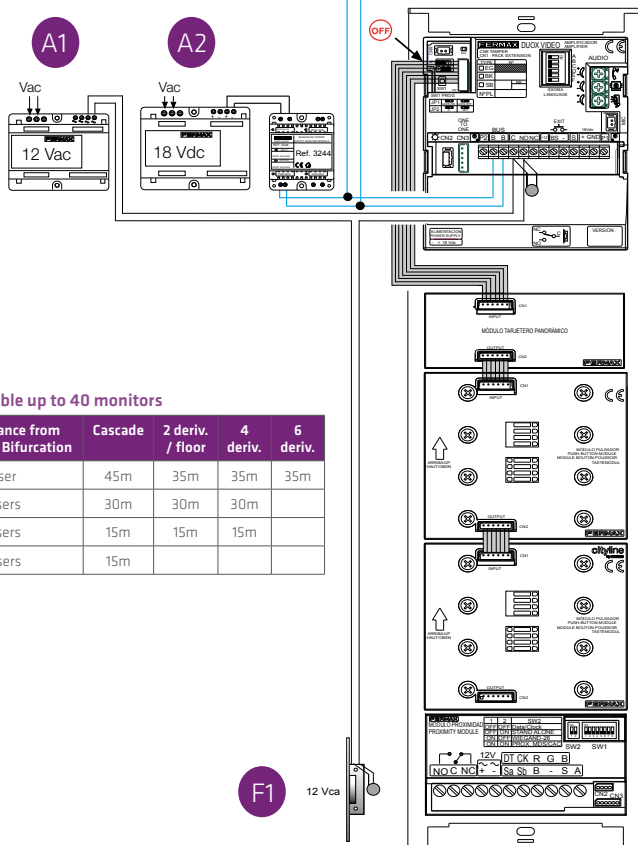
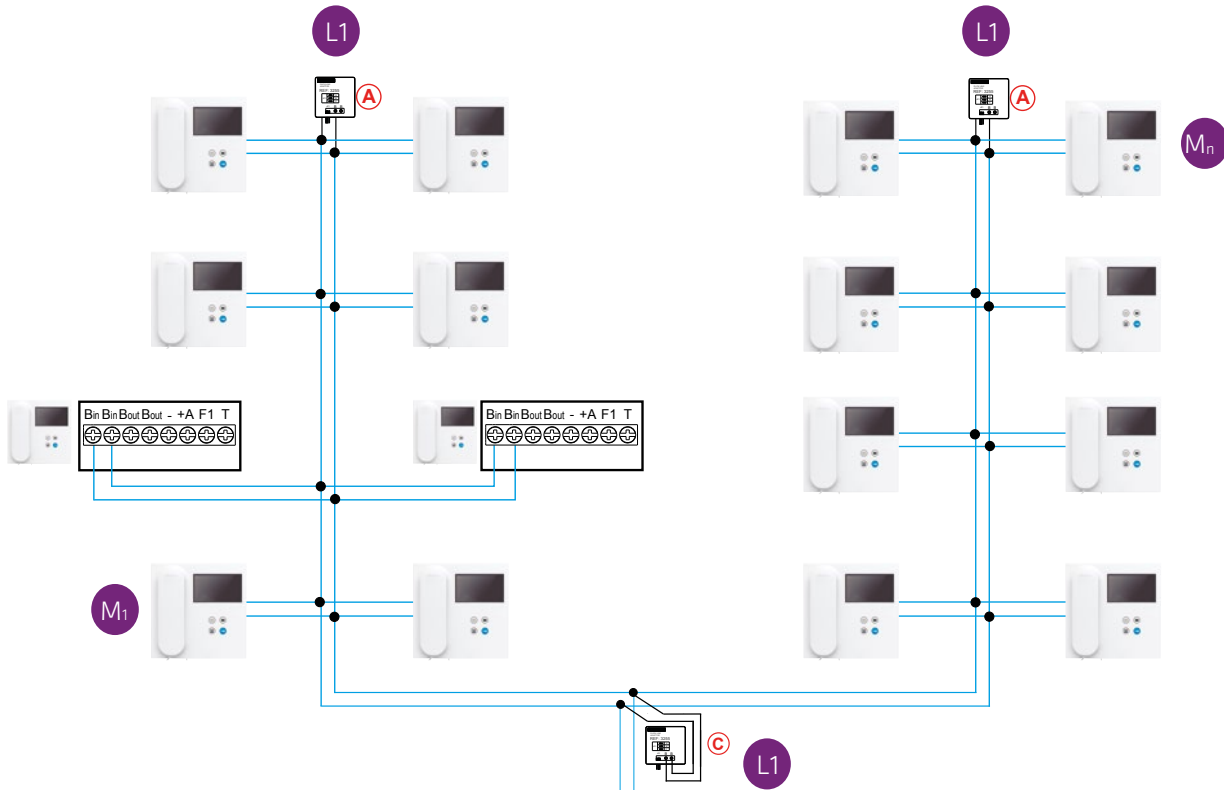
- P1** 16/W DUOX SKYLINE panel.
- F1** Lock release 12Vac/dc (ref.67501).
- A1 A2** Power supply 12Vac (ref.4802) and 18Vdc (ref.4830).
- D1** DUOX filter (ref.3244).
- M1 M2** VEO monitor (ref.9445) + VEO/VEO-XS connector (ref.9447).
- L1 L2** DUOX line adaptor (ref.3255)

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

NOTE: Simplified diagram. Check the DUOX TECHNICAL BOOK to set up system according to installation distances.
www.fermax.com/quickguide

DUOX VIDEO DIAGRAM

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



Distance table up to 40 monitors

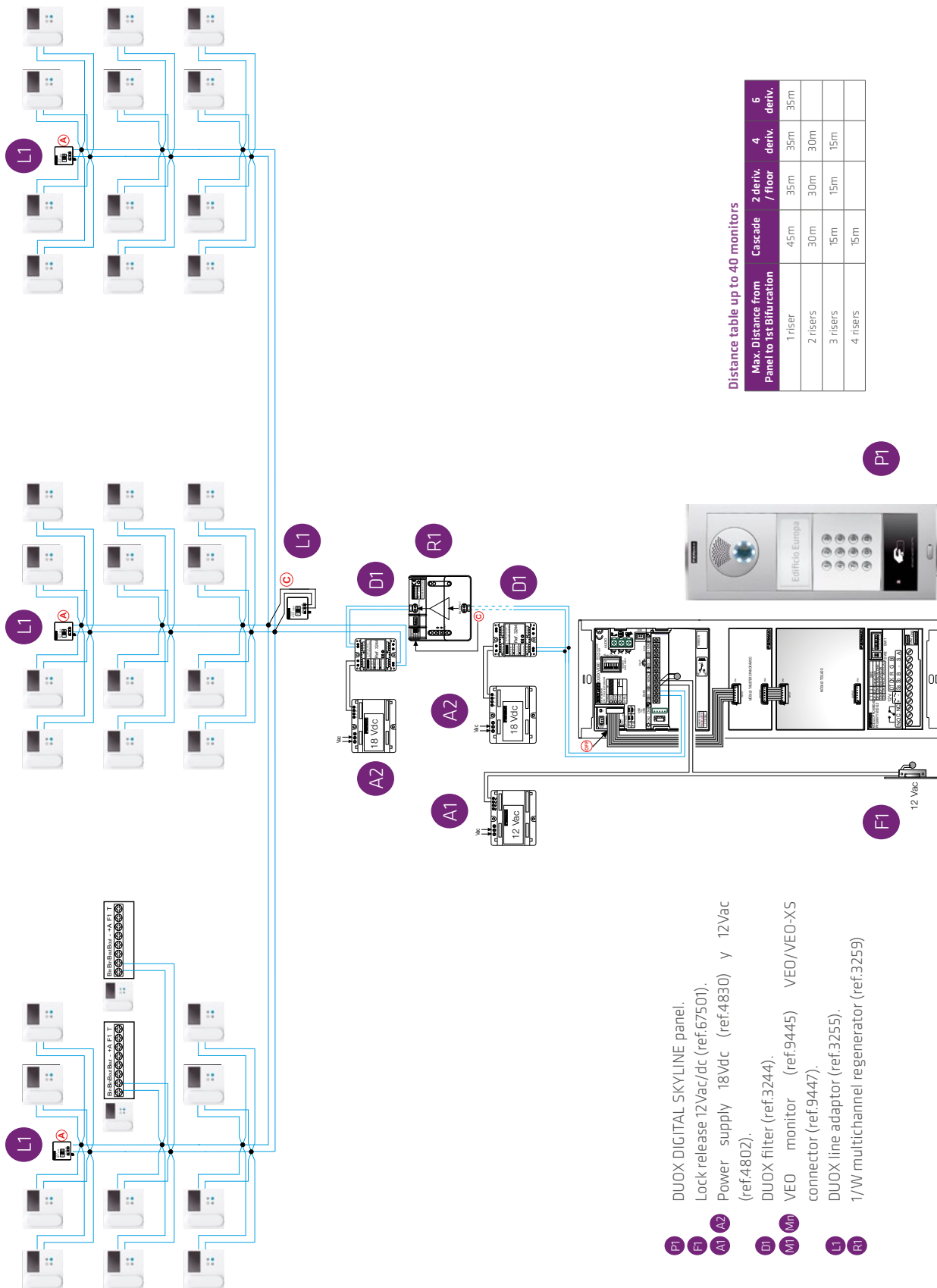
Max. Distance from Panel to 1st Bifurcation	Cascade	2 deriv. / floor	4 deriv.	6 deriv.
1 riser	45m	35m	35m	35m
2 risers	30m	30m	30m	
3 risers	15m	15m	15m	
4 risers	15m			

- P1 16/W DUOX SKYLINE panel.
- F1 Door lock 12Vac/dc (ref.67501).
- A1 A2 Power supply 18Vdc (ref.4830) and 12Vac (ref.4802). DUOX filter (ref.3244).
- D1 VEO monitor (ref.9445) + VEO/VEO-XS connector (ref.9447).
- M1 Mn DUOX line adaptor (ref.3255).
- L1



DUOX VIDEO DIAGRAM

1 ACCESS VIDEO DUOX TO 3 RISERS OF 3 FLOORS. 4 APARTMENTS PER FLOOR



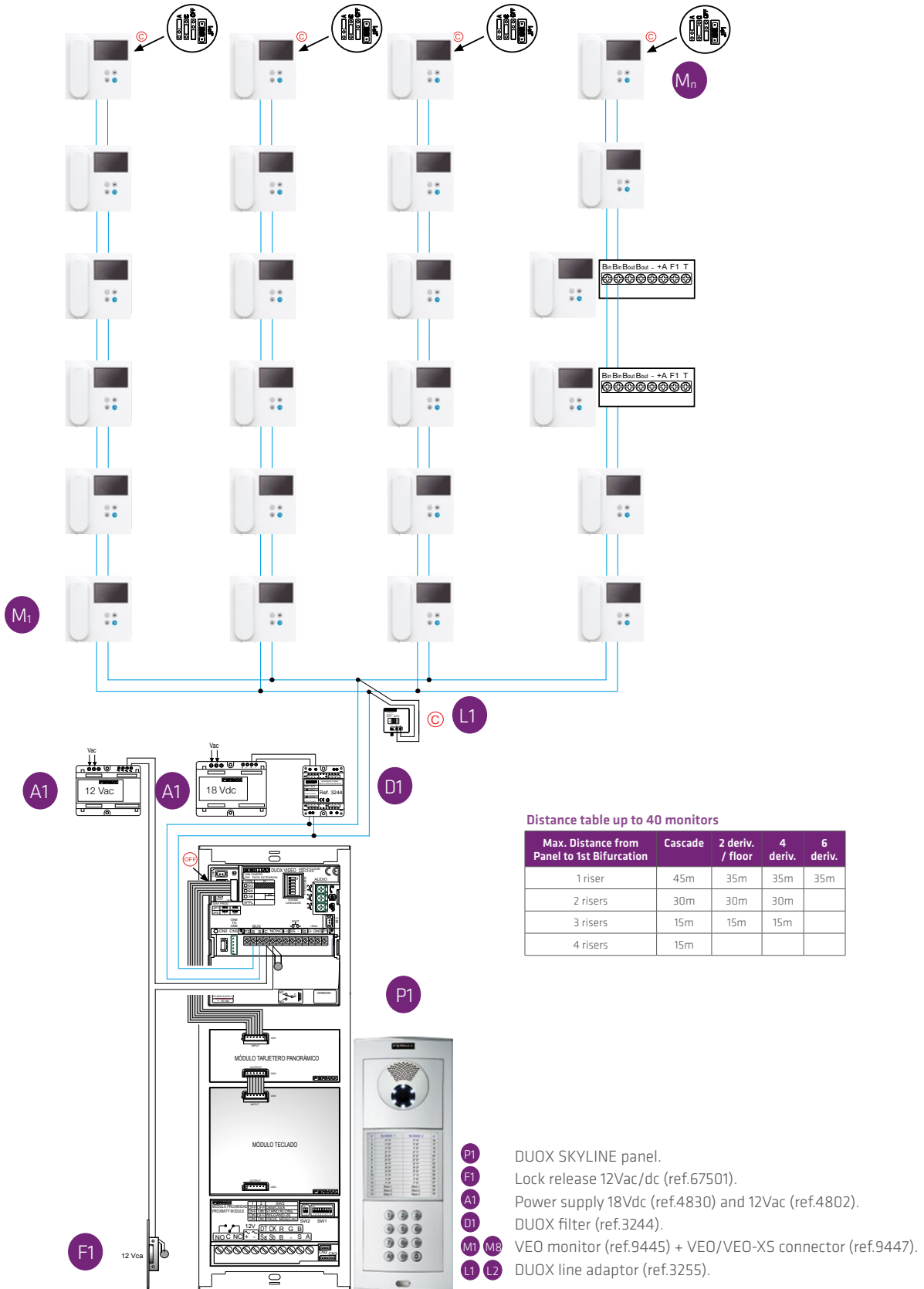
Distance table up to 40 monitors

Max. Distance from Panel to 1st Bifurcation	Cascade / floor	2 deriv.	4 deriv.	5 deriv.
1 riser	45m	35m	35m	35m
2 risers	30m	30m	30m	
3 risers	15m	15m	15m	
4 risers	15m			

- P1 DUOX DIGITAL SKYLINE panel.
- F1 Lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4850) y 12Vac (ref.4802).
- A2 DUOX filter (ref.3244).
- D1 VEO monitor (ref.9445) VEO/VEO-XS connector (ref.9447).
- M1 DUOX line adaptor (ref.3255).
- L1 1/W multichannel regenerator (ref.3259)
- R1

DUOX VIDEO DIAGRAM

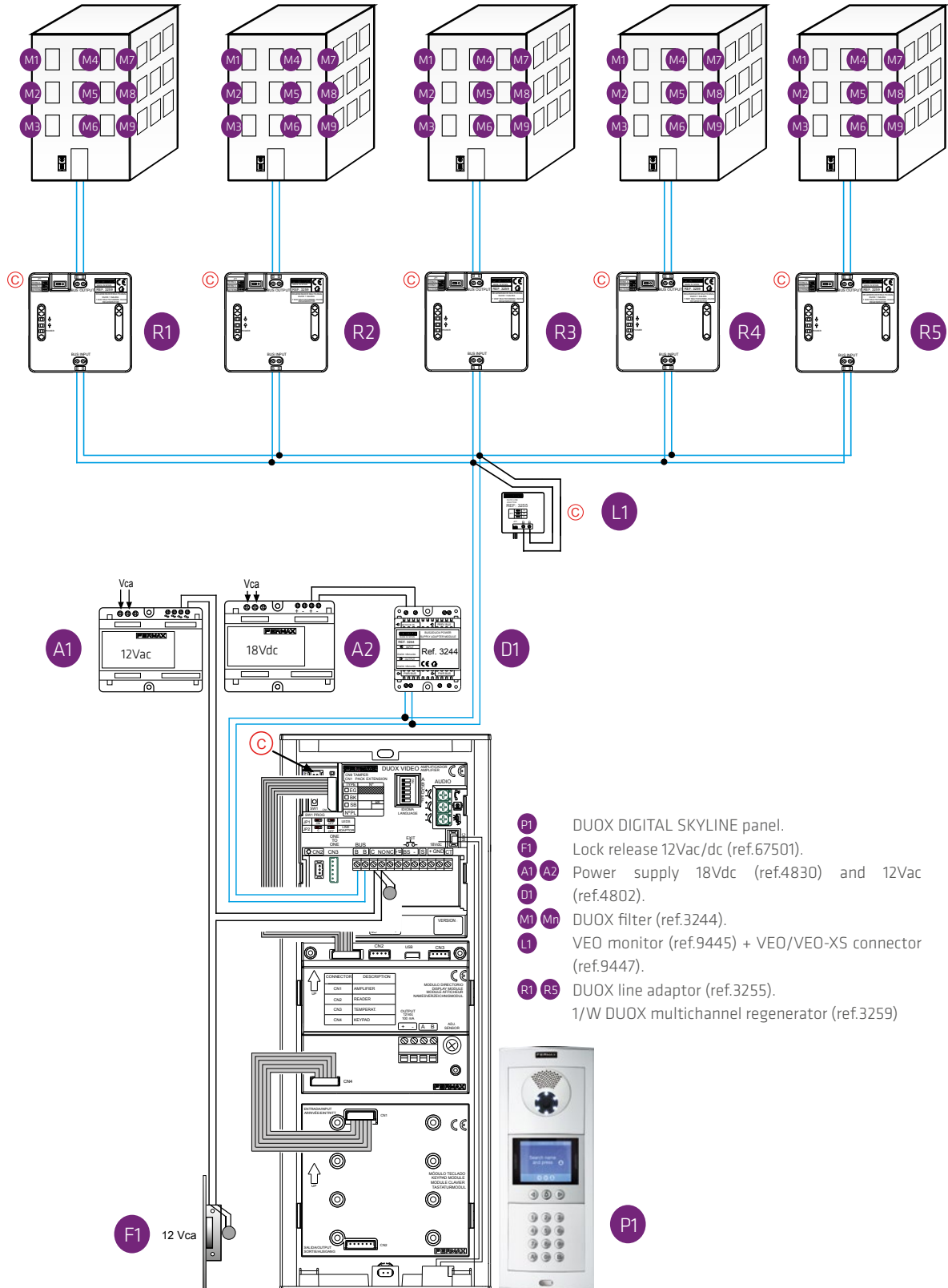
1 ACCESS WITH SKYLINE PANEL TO 4 RISERS OF 6 APARTMENTS AS STANDARD



DUOX VIDEO DIAGRAM

1 ACCESS VIDEO DUOX TO 5 INTERIOR BLOCKS

NOTE: Simplified diagram. Check the DUOX TECHNICAL BOOK to set up system according to installation distances. www.fermax.com/quickguide



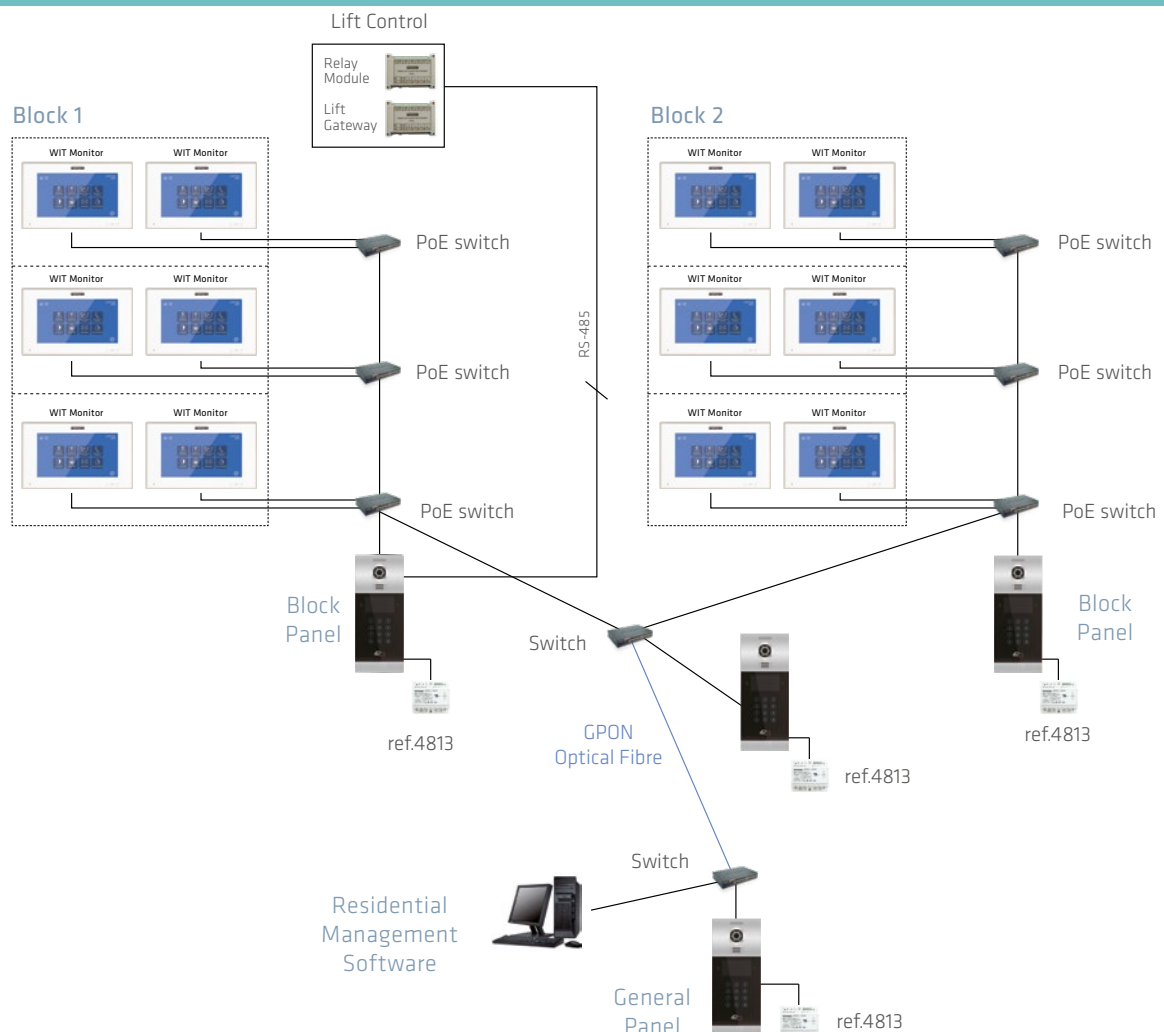
- P1 DUOX DIGITAL SKYLINE panel.
- F1 Lock release 12Vac/dc (ref.67501).
- A1, A2 Power supply 18Vdc (ref.4830) and 12Vac (ref.4802).
- D1 DUOX filter (ref.3244).
- M1, Mn DUOX filter (ref.3244).
- L1 VEO monitor (ref.9445) + VEO/VEO-XS connector (ref.9447).
- R1, R5 DUOX line adaptor (ref.3255).
1/W DUOX multichannel regenerator (ref.3259)

TECHNICAL INFO

MEET PANEL FEATURES

GENERAL FEATURES	KIN PANEL ref. 1445	MILO PANEL ref. 9531,9532,9533,9534, 9535
Panel	Capacitive Touch Screen	Digital panels with capacitive touch keypad or mechanical keypad. 1 way push button panels.
Finish	Aluminium	
IP	54	
Operating temperature	-40°C 70°C	-20°C 60°C
Installation mounting	Flushed	
Installation adjustment	Flush box with panel flush regulation screws.	
Ledge on the wall (flush mounted)	8mm	
Fixing screws	Not visible	
Electronic calling directory	No	
Low-lighting vision	0,5 Lux	
Camera resolution	1,2 Mpx (Digital Panel) 1 Mpx (1/W Video Panel)	
Sends video to recorder	Yes - Continuous RTSP IP stream	
Aerial camera display	Up to 4 cameras RTSP IP	
Opening secondary doors	Yes, using module ref.1491 (4 Relay Panel Module)	
PIN code	Up to 8 PIN codes for panel for door opening	
Face Recognition	Up 10.000 users	Up to 6.000 users

MEET DIAGRAM



MEET MONITORS FEATURES

GENERAL FEATURES	7" MIO 952201	7" WIT 14701	10" MIO 952701	10" WIT 14811
Technology	MEET Full IP			
Mounting	Surface			Flush/Surface
Hands-free communication	Yes			
Optional communication: press-to-talk	No			
Inductive loop version	No			
Screen	7"		10"	
Screen Resolution	1024 x 600			
Capacitive MENU push button	No. Direct access to menu when touching the screen			
F1 Quick-access function push button	No			
Status Led Notification	Yes. Missed Call. Message. Do not disturb			
PROGRAMMING AND TECHNICAL FEATURES				
Programming modes	On screen menu or web server			
Address Assignment	Static IP + apartment number			
PoE	No	Yes	No	Yes
Codecs	G.711, H.264			
FEATURES				
Picture capture when the visitor calls	Yes			
Memory photo download in SD Card	No			
Guard Unit call	Yes			
Selection of Guard Units	Yes			
SOS Call to Guard Unit	Yes SOS soft button			
Analogue SOS push button connection	Yes To one alarm zone			
Tamper-proof system	Yes			
Auto-switch on of panel	Yes			
Visualization of IP video surveillance cameras	Yes			
Internal Intercom	No			
Apartment to apartment intercom	Yes			
Monitor to monitor messaging	No			
Receive/send messages from/to GU or management software	Monitor can receive messages from the Management Software			
Remote relay activation	Yes. Up to 8, using Ref.1616			
Lift Control activation	Yes			
Door bell connection	Yes To one alarm zone			
IP CCTV door bell link	Yes			
Audio notes	No			
Call extension module	No 10 Vdc output on alarm triggering			
Doormatic	No			
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			

VDS VIDEO KITS

PL²
Plug&Play

Technology
☎5 / UTP CAT or 3+coax



**VEO KIT
9411/9412**

7\"/>

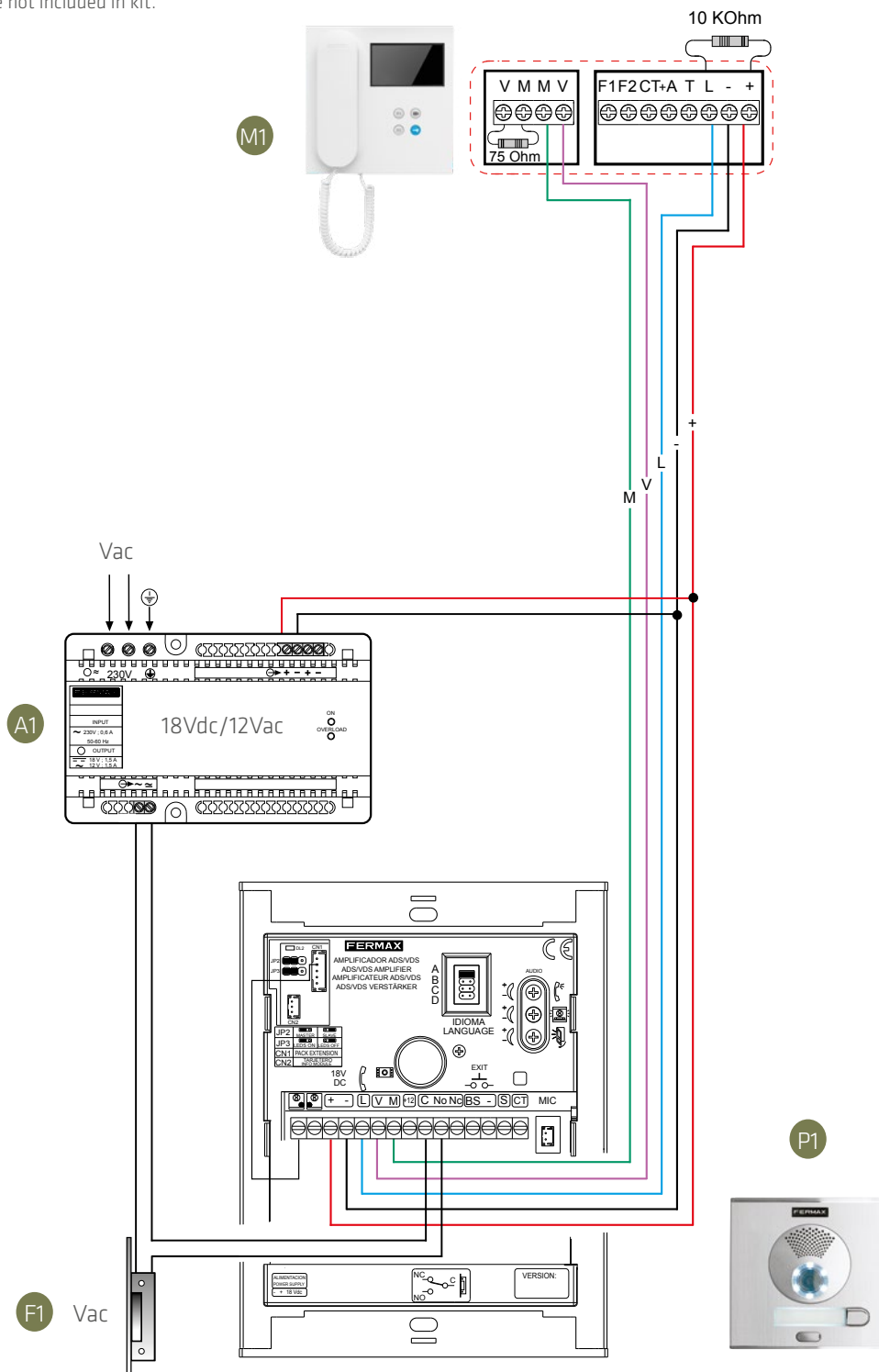
OUTDOOR PANELS		
Finish	Aluminium and chromed zamak	
Mounting	Flush mounted	
Output +12Vdc for lock release	Yes	
Recommended lock release	Normal lock release with unlocking and adjustable latch 990ND-P22 MAX (ref.67511)	
Free potential contact	Yes	
Voice synthesiser ("The door is...")	Yes	
Integrated access control	-	
Accessibility icons	-	
IP/IK	IP43 IK07	
Panel dimensions (mm)	130x128	
Flush box dimensions (mm)	115x114x45	
MONITOR		
Communication mode	With handset	Hands-free
Screen	4,3" (16:9)	7" (16:9) touch capacitive
Flush mounted possibility	-	Yes
Push buttons	Mechanical	Capacitives
Auto-on	Yes	
Melodies	4	5
Contrast control	Yes	
Volume control and Do not disturb function	Yes	
Doormatic	-	Yes
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	185x172x20
Decorative frame	ref.3389 210x240	ref.3389 210x240

VDS VIDEO KITS DIAGRAM

VDS VIDEO KIT. INSTALLATION: 5 WIRES/UTP CAT5

- P1** CITYLINE KIT outdoor panel.
- F1** Lock release 12Vac/dc (ref.67511)*.
- A1** Power supply 18Vdc/12Vac (ref.4810).
- M1** VEO monitor (ref.9401) + Connector (ref.9402).

* Lock release not included in kit.

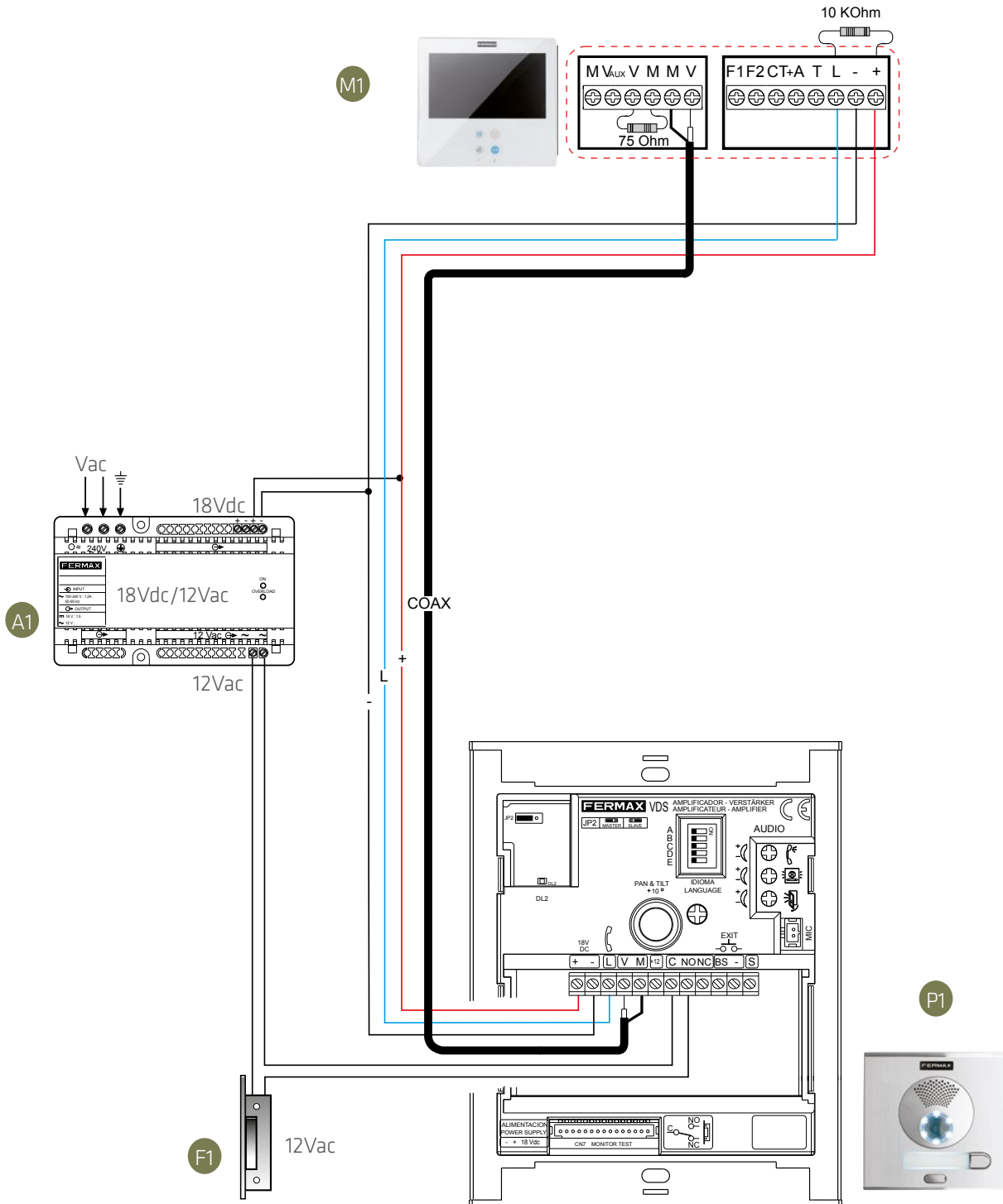


VDS KITS DIAGRAMS

VDS VIDEO KIT. INSTALLATION: 3+COAX

- P1** CITYLINE KIT outdoor panel.
- F1** Lock release 12Vac/dc (ref.67511)*.
- A1** Power supply 18Vdc/12Vac (ref.4810).
- M1** SMILE TOUCH monitor (ref.5075) + connector (ref.6565).

* Lock release not included in kit.



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). Includes connector.
Handset with magnet to facilitate the hang up	Yes
Hands-free communication	-
Optional communication: press-to-talk	-
Induction loop version	Yes (ref. FFR09401)
Screen dimensions	4,3" (Format 16:9)
Screen resolution (H x V)	480 x 272
Colour of the product	Matt white
Number of push buttons	4
Type of push buttons	Mechanical (silicone)
Status led notifications	1 (ON/OFF)
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)
Apartment door bell differentiated from the outdoor panel	Yes
Connection for additional devices (call extension, light/buzzer activator, etc.)	Yes (ref.2040, ref.2438)
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)
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 con auricular)
Time to answer or open the door since the call is done	30 s.
Conversation time	90 s.
Conversation privacy	Si
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	Surface: order connector ref.6565. Flush besides: add box (ref.6546) and frame (ref.6547)	Surface: order connector ref.6565. Flush besides: add box (ref.6551) and frame (ref.6552)	
Desktop support	Yes (ref.6566). Connector is required and must be ordered separately.		
Handset with magnet to facilitate the hang up	-		
Hands-free communication	Yes		
Optional communication: press-to-talk	Yes		
Induction loop version	Yes (ref.6553)	Yes (ref.6554)	Yes (ref.6576)
Screen dimensions	3,5" (Format 4:3)	7" (Panoramic 16:9)	
Screen resolution (H x V)	320x240	800x480	
Touchscreen	-		Yes
Colour of the product	White		
Number of push buttons	4+4		4
Type of push buttons	Capacitive (touch)		
Status led notifications	4+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)		
Apartment door bell differentiated from the outdoor panel	Yes		
Connection for additional devices (call extension, light/ buzzer activator, etc.)	Yes (ref.2040, ref.2438)		
Doormatic (automatic door release for offices, etc.)	Yes		
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		
Ring tone selection	Yes (5)		
Call volume control	Yes (8 levels by OSD menu)		
"Do not disturb" function	Yes (by OSD menu) + red led indication		
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) 127x196x4 (flush)	185x172x21 (surface) 209x196x4 (flush)	
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	0,61	
Connections	M, Vaux, V, M, M, V, F1, F2, Ct, +A, T, L, -, +		

VDS MONITORS FEATURES

GENERAL FEATURES	5620	5606
Technology	VDS (3+coax or 5 wires)	
Sistema audio/video	Audio/video colour	
Mounting	Flush-mounted (box: ref.5630)	Surface (connector included)
Desktop support	-	Yes (ref.5637)
Handset with magnet to facilitate the hang up	-	-
Hands-free communication	Yes	
Optional communication: press-to-talk	Yes	
Induction loop version	-	Yes (order monitor FFR05606)
Screen dimensions	3,5" (Format 4:3)	
Screen resolution (H x V)	480x234	
Colour of the product	White (transparent cover)	White
Number of push buttons	5	
Type of push buttons	Mechanical	
Status led notifications	3 (red, blue and green with different states)	
TERMINAL ADDRESS PROGRAMMING		
From monitor	Yes	
From the outdoor panel or guard unit	Yes	
From the outdoor panel throughout the apartment doorbell	-	
FEATURES		
Automatic picture capture when the visitor calls (Photocaller)	-	
Home automation functions	-	-
Guard unit call	Yes (by means of the door release button)	
Autostart	Yes (up to 2 panels) and aerial cameras	
OSD menu	Yes	
Additional function F1	Yes (sends a negative)	
Additional function F2	Yes (sends a negative)	
Apartment door bell differentiated from the outdoor panel	Yes	
Connection for additional devices (call extension, light/buzzer activator, etc.)	Yes (ref.2040, ref.2438)	
Doormatic (automatic door release for offices, etc)	Yes (indication by green led)	
Audio/Video call forwarding to smartphone	Yes (required ref. 3266 WIFI VDS CALL DIVERT WI-BOX. One unit per home)	
Additional terminals on the same address	Yes (as many as needed, using additional power supply units)	
CONTROLS		
Date and time	-	
Ring tone selection	Yes (7)	
Call volume control	Yes (by OSD menu)	
"Do not disturb" function	Yes (by OSD menu) + red led indication	
Audio volume control	Yes (by OSD menu)	
Brightness, colour and contrast control	Yes (by OSD menu)	
TECHNICAL FEATURES		
Product dimensions (width x height x depth)mm	131x197x45 (13mm protrusion)	131x197x35
Time to answer or open the door since the call is done	30 s.	
Conversation time	90 s.	
Conversation privacy	Yes	
Voltage	18Vcc	
Maximum consumption (mA)	550	
Standby consumption (mA)	26	
Operating temperature (°C)	[-5°C, +40°C]	
Humidity	[5%, 95%]	
Product weight (kg)	0,65	0,85
Connections	F2, F1, T, A, Ct, -, L, +, M, V, V, M	

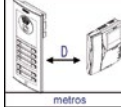
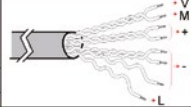
VDS TELEPHONES FEATURES

GENERAL FEATURES	3390	3391	5601
Technology	VDS (3 wires)		
Audio/video	Audio		
Mounting	Surface		
Handset with magnet to facilitate the hang up	Yes		-
Hands-free communication	-		Yes
Optional communication (Press-to-talk)	-		Yes
Induction loop version	Yes (replace handset for ref.3441 with induction loop)		-
Colour of the product	White		
Number of push buttons	1	3	
Type of push buttons	Mechanical (ABS plastic)		
Status led notifications	-	1 (red ON/OFF)	3 (red, blue and green with different states)
TERMINAL ADDRESS PROGRAMMING			
From terminal		-	Yes
From the outdoor panel or guard unit	Yes		
From the outdoor panel throughout the apartment door bell	-		
FEATURES			
Guard unit call	Yes (by means of the door release button)		
Auto-on	-	-	Yes
Additional function F1	-	Yes (F1 push button, sends a negative)	
Additional function F2	-	Yes (F2 push button, sends a negative)	-
Apartment door bell differentiated from the outdoor panel	Yes		
Connection for additional devices (call extension, light/buzzer activator, etc.)	Yes (ref.2040, ref.2438)		
Doormatic (automatic door release for offices, etc.)	-	Yes (led indication)	
Audio call forwarding to smartphone	Yes (required ref. 3266 WIFI VDS CALL DIVERT WI-BOX. One unit per home)		
CONTROLS			
Melodies selection	-	Yes (2, by a 2 positions switch)	Yes (5)
Call volume control	-	Yes (3 positions switch: high, medium, OFF)	Yes (by sliding wheel)
"Do not disturb" function	-	Yes (3 positions switch: high, medium, OFF)	Yes (by sliding wheel)
Audio volume control	-		
TECHNICAL FEATURES			
Product dimensions (width x height x depth) mm	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	18Vdc		
Maximum consumption (mA)	215		300
Standby consumption (mA)	6		24
Operating temperature (°C)	[-10°C, +60°C]		[-5°C, +40°C]
Humidity	[0%, 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,-,+

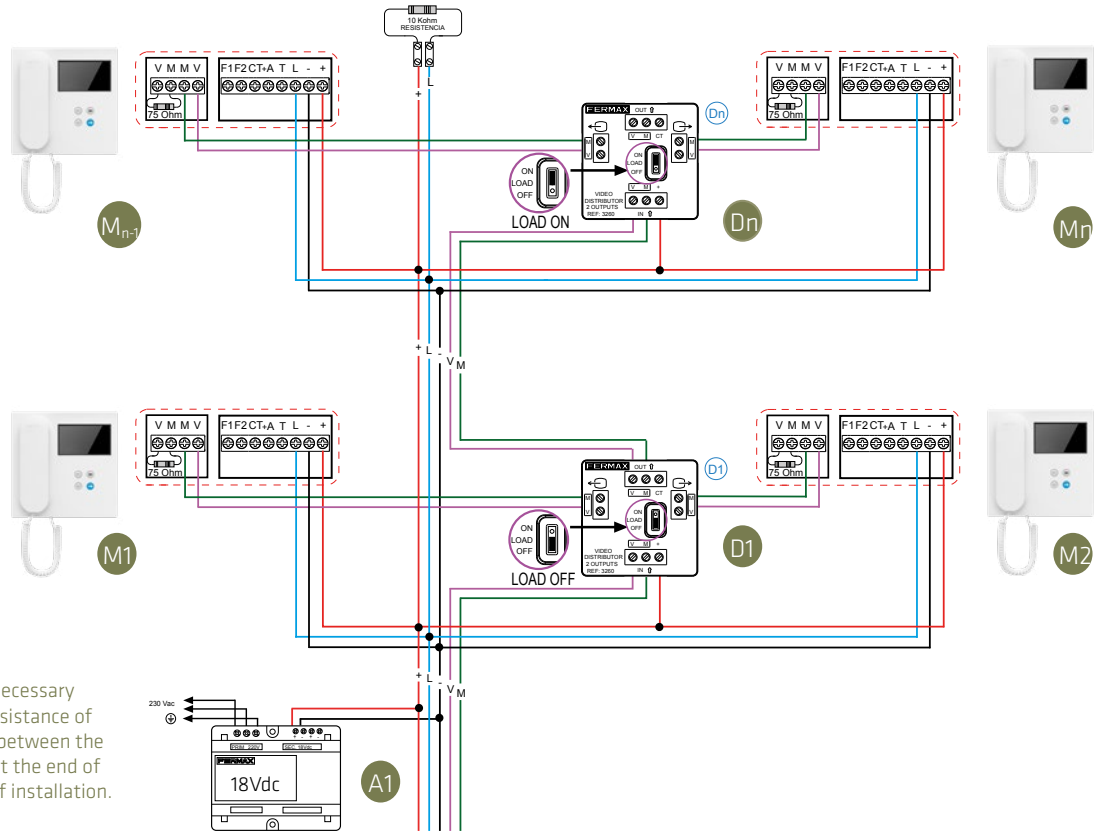
VDS DIAGRAMS

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

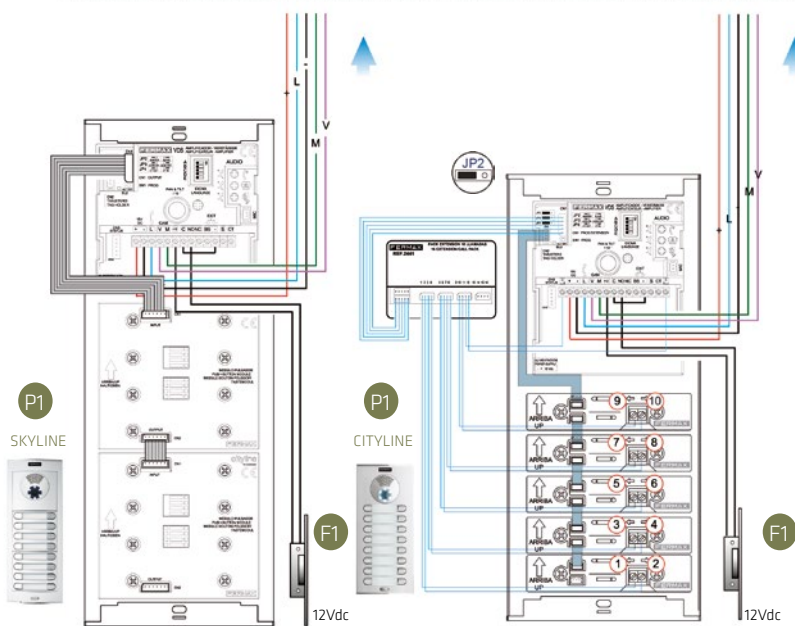
- P1 SKYLINE/CITYLINE panel.
- F1 Lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4830).
- D1 2/W video Mini distributor (ref.3260).
- M1 VEO monitor (ref.9401)+ VEO connector (ref.9402).

	
metros	mm ² AWG
1 - 50	1 mm ² 17
50 - 100	1,5 mm ² 15

UTP CAT5 (AWG 24)



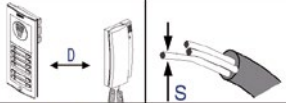
NOTE: It is necessary to place a resistance of 10KOhmios between the "+" and "L" at the end of the points of installation.



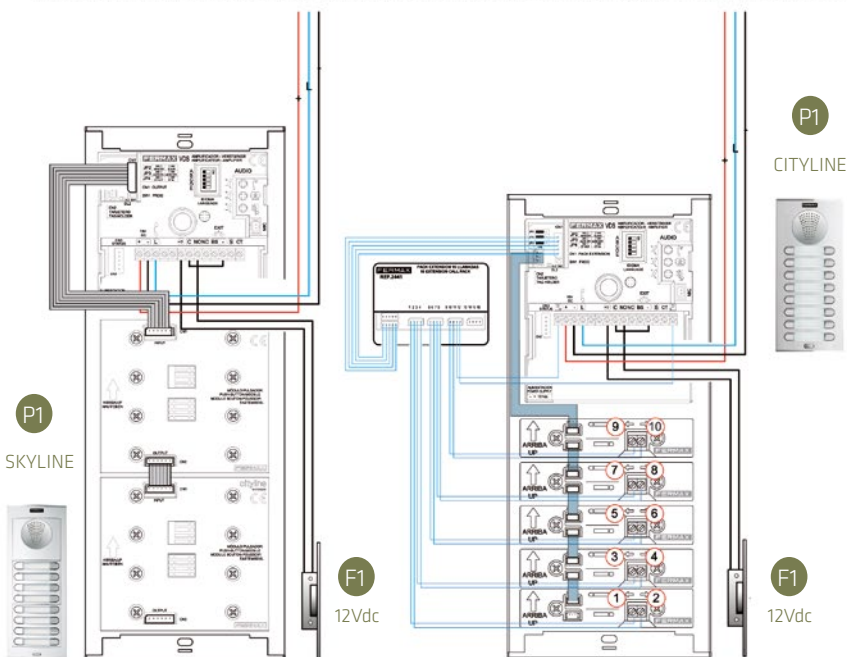
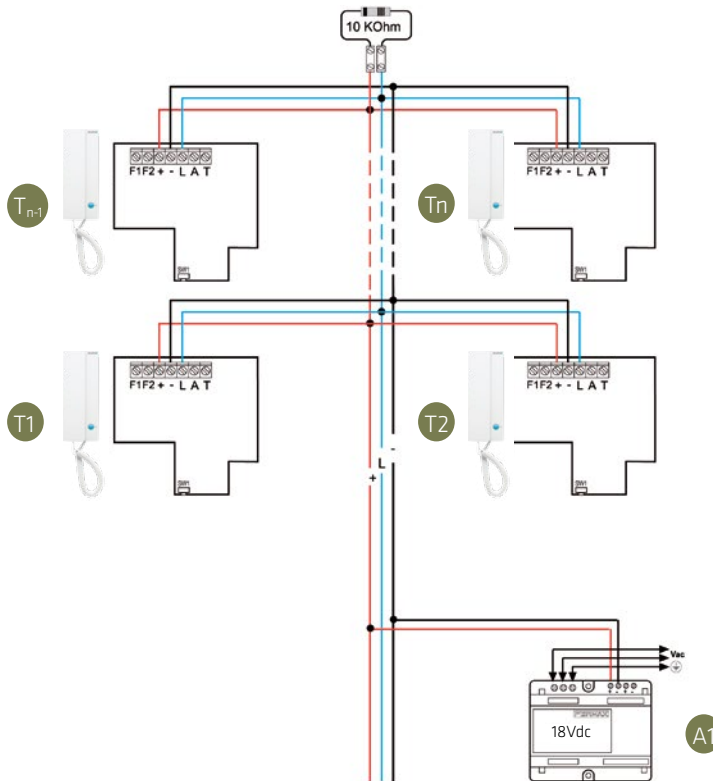
VDS DIAGRAMS

VDS AUDIO 1 ACCESS WITH SKYLINE/CITYLINE PANEL

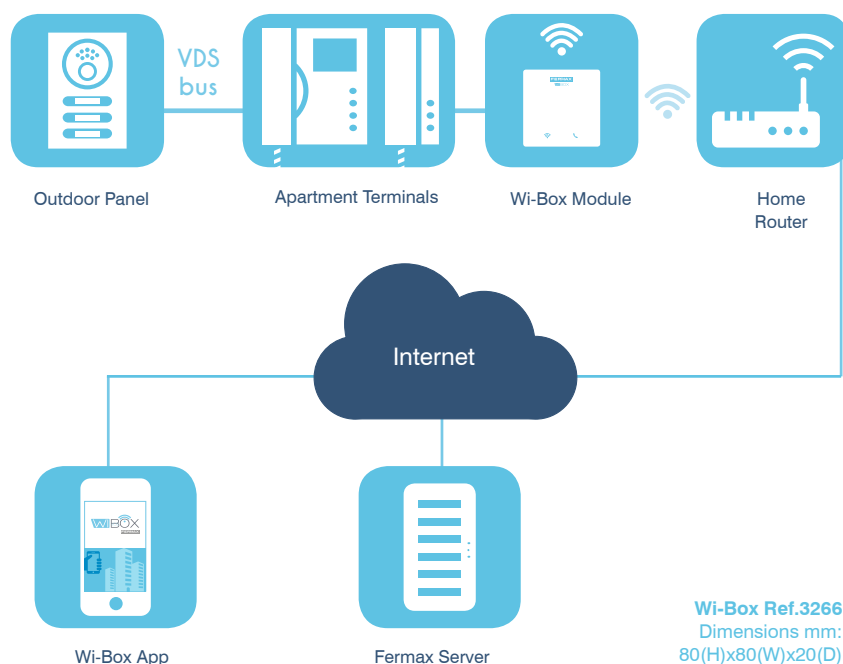
- P1** SKYLINE/CITYLINE panel.
- F1** Lock release 12Vac/dc (ref.67501).
- A1** Power supply 18Vdc (ref.4830).
- T1** LOFT BASIC telephone (ref.3390).

	
metros	
1 - 50	1 mm ²
50 - 100	1,5 mm ²
100 - 200	2,5 mm ²

NOTE: It is necessary to place a resistance of 10 kOhm between the “+” and “L” at the end of the points of installation.



REF. 3266 WIFI VDS CALL DIVERT WI-BOX



GENERAL FEATURES	3266
Technology	VDS (3+coax, 5 wires, UTP CAT5)
Audio/video	Audio/Video
Set-up (Installation)	Surface mounted. It can be screwed to the wall or on a standard electrical mounting box.
Colour of the product	Matt white
Number of pushbuttons	2 (PB1: user pushbutton; PB2: installer pushbutton)
Kind of pushbuttons	Mechanical
Number of leds for lighted indications	2 tricolour leds: Divert call 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	WIBOX PB2 Pushbutton, Door Opening Pushbutton in 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)18Vdc
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 WIBOX 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 from the same house can be used.	No limit
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. Like in the VDS monitors
Auto-on	Yes. Like in the VDS monitors
Activate additional feature (stairlight relay, second door, etc.)	Yes. F1 button with programmable time. Protected by PIN code (1-6 digits)
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

NEW



ref.3266
80x80x20mm



3266 WI-BOX MODULE

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

Note: WI-BOX Call Divert available depending on the geographic area. Check availability.

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



MDS FEATURES

MDS CITY	SINGLE BLOCK		GENERAL ENTRANCE		INTERIOR BLOCK		
	Accesses (Nº. Panels)	Apartments	Digital MDS	Direct MDS	Nº. of blocks	Accesses per block (Nº. panels)	Apartments (per block)
	5 - 9 ⁽¹⁾	50- 99 ⁽²⁾	Accesses (Nº panels) See MDS Digital table	Accesses (Nº panels) See MDS Direct table	99	9	50- 99 ⁽²⁾

- ⁽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 BLOCK		GENERAL ENTRANCE		INTERIOR BLOCK		
	Accesses (Nº. Panels)	Apartments	Digital MDS	Direct MDS	Nº. of blocks	Accesses per block (Nº. panels)	Apartments (per block)
	5 - 9 ⁽¹⁾	99	Accesses (Nº panels) Consulting MDS Digital Info.	Accesses (Nº panels) 5 - 9 ⁽¹⁾	99	9	99

- ⁽¹⁾ 5 accesses (between audio and video panels) with 1 guard unit and 9 accesses (between audio and video panels) if there is no central unit.
- The MDS Direct system allows to connect only 1 MDS guard unit in the whole installation.
- In case of Urbanisations, if the panel/panels is configured as General Entrance, it will be able to establish audio communication with the guard unit.

MDS DIGITAL	SINGLE BLOCK		GENERAL ENTRANCE	INTERIOR BLOCK
	Accesses (Nº. Panels)	Apartments	<ul style="list-style-type: none"> - Maximum 63 Central Units (General Entrance + Interior Blocks) - 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. 	
	32	9999		

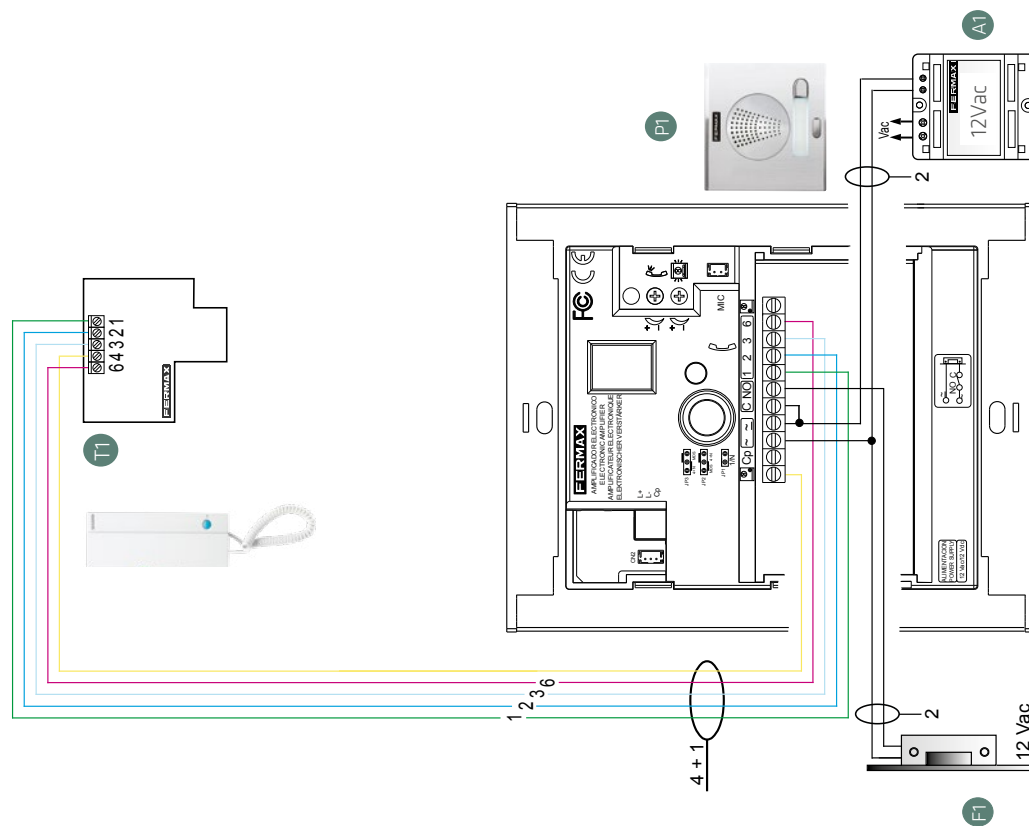


4+N DIAGRAMS

4+N AUDIO KIT WITH CITYLINE PANEL

- P1 4+N CITYLINE panel.
- F1 Lock release 12Vac/dc (ref.67511)*.
- A1 Power supply 12Vac (ref.4802).
- T1 LOFT BASIC telephone (ref.3393).

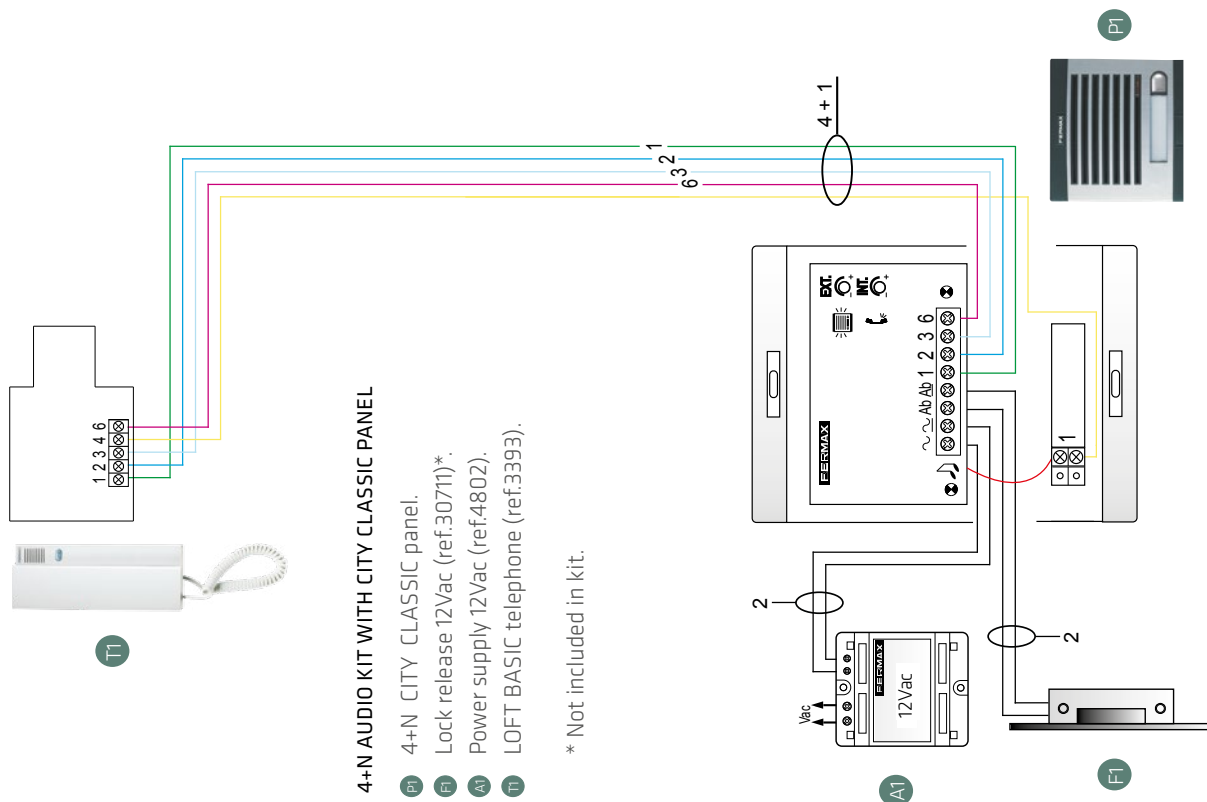
* Not included in kit.



4+N AUDIO KIT WITH CITY CLASSIC PANEL

- P1 4+N CITY CLASSIC panel.
- F1 Lock release 12Vac (ref.30711)*.
- A1 Power supply 12Vac (ref.4802).
- T1 LOFT BASIC telephone (ref.3393).

* Not included in kit.

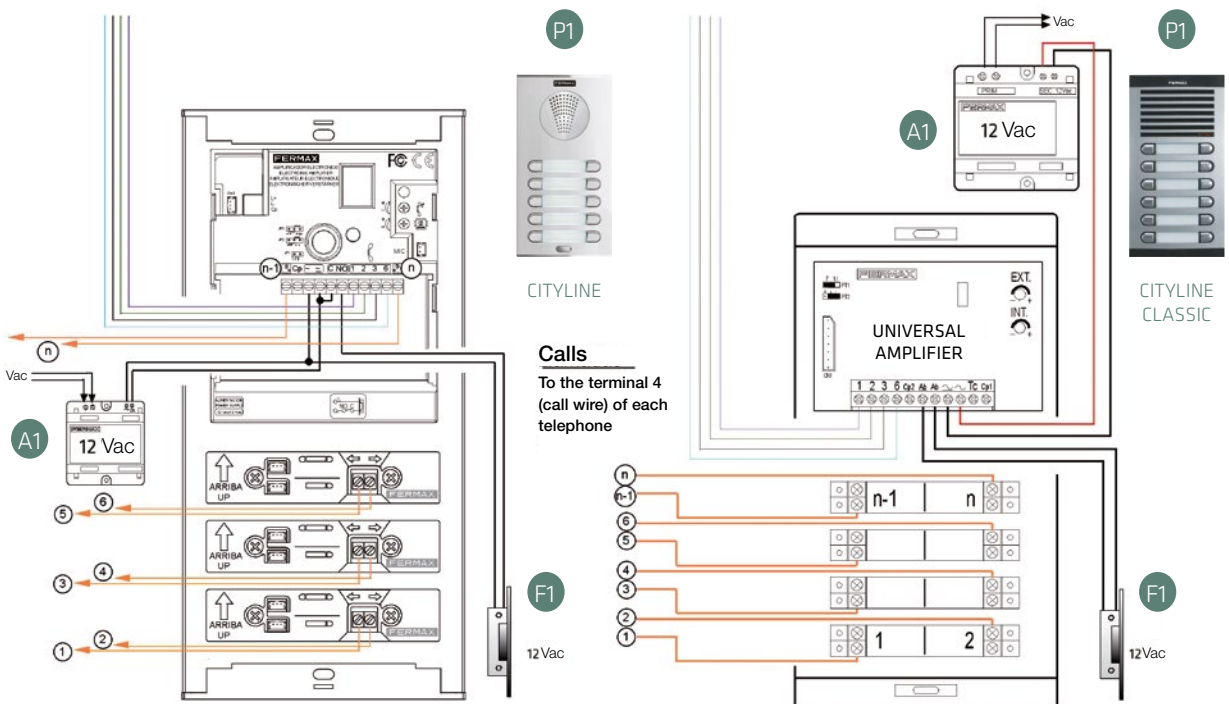
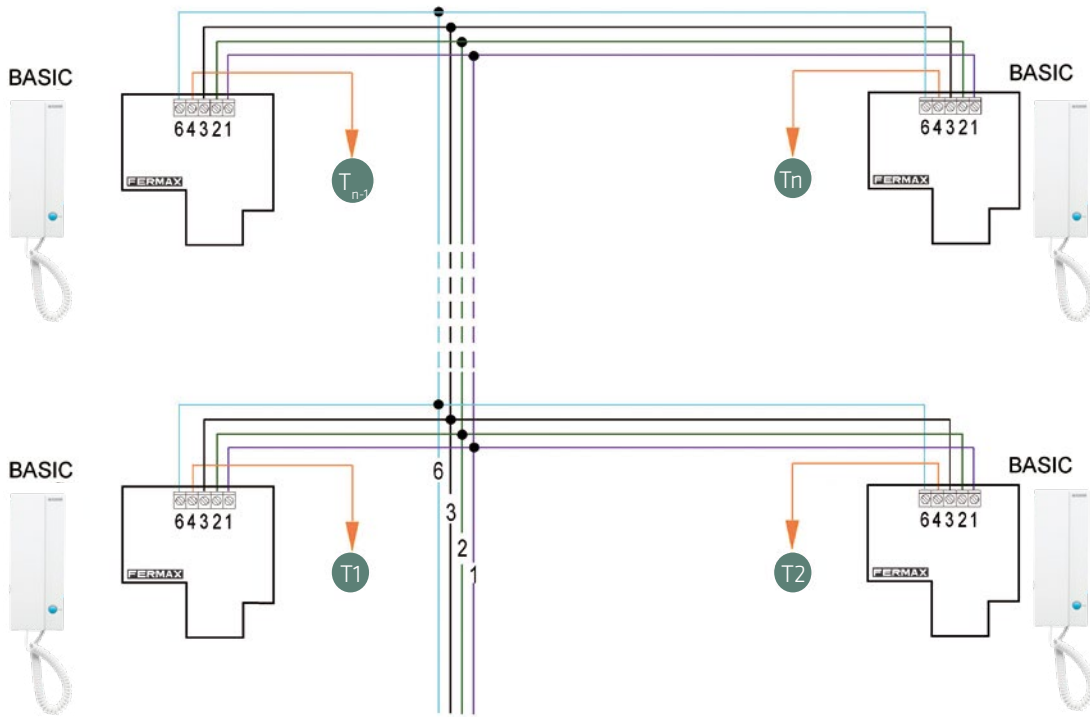


4+N DIAGRAMS

4+N AUDIO. CITYLINE/CITYLINE CLASSIC

- P1** CITYLINE/CITYLINE CLASSIC Panel.
- F1** Lock release 12Vac/cc (ref.67501).
- A1** Power supply 12Vac (ref.4802).
- T1** LOFT BASIC Telephone (ref.3393).

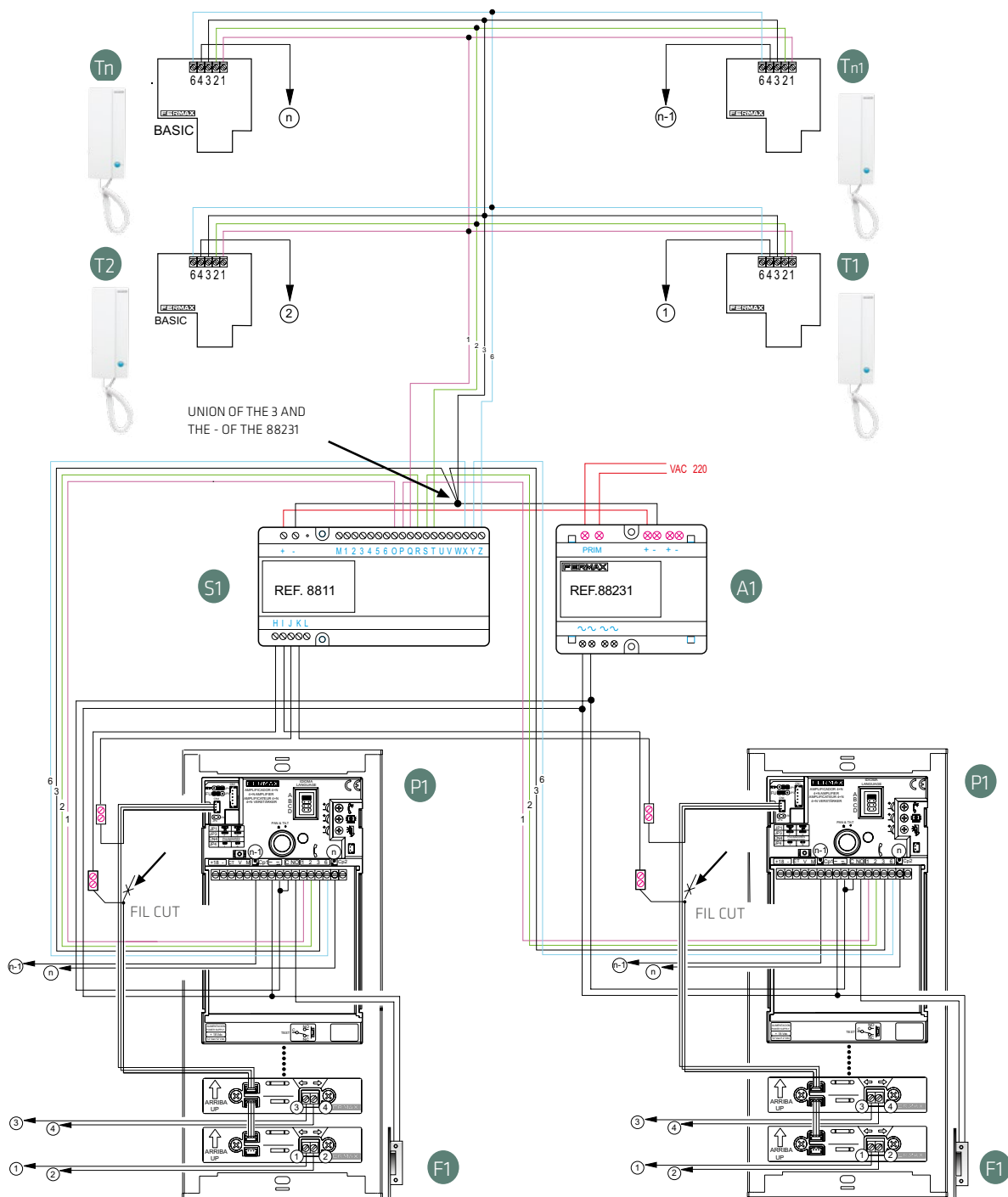
metros	mm ²		AWG	
	mm ²	AWG	mm ²	AWG
0 - 100	0,5mm ²	20	1 mm ²	17
100 - 300	1 mm ²	17	1 mm ²	17



4+N DIAGRAMS

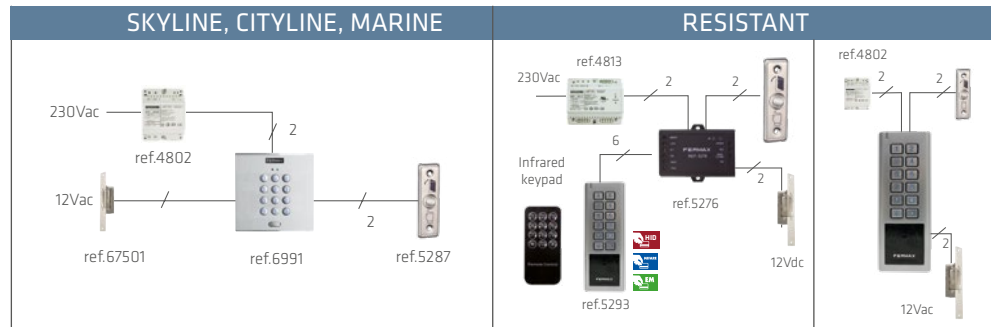
4+N AUDIO. 2 ACCESSES. CITYLINE/ SKYLINE

- P1** CITYLINE/SKYLINE Panel.
- F1** Lock release 12Vac/cc (ref.67501).
- A1** Power supply 12Vac (ref.88231).
- T1** LOFT BASIC Telephone (ref.3393).
- S1** Audio switcher (ref.8811)



ACCESS CONTROL. STAND-ALONE

KEYPAD

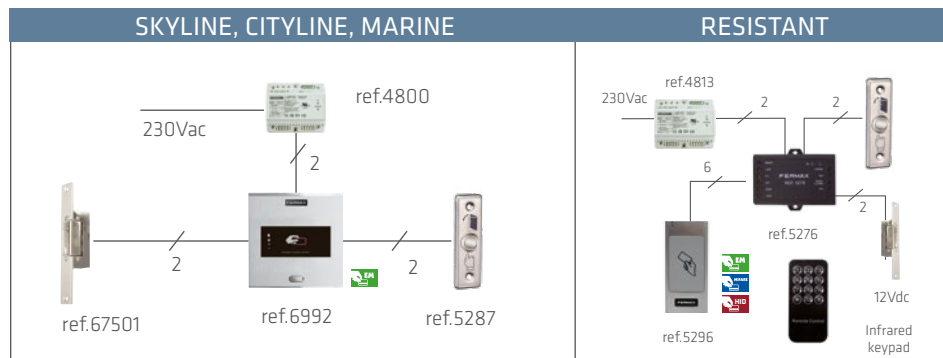


	SKYLINE, CITYLINE, MARINE			RESISTANT	
GENERAL FEATURES	7438	6991	4699	5276	5293
Reader types	Modular	Monoblock	Anti-vandal	-	Anti-vandal
Keypad types	Injected zamak chrome blue backlighted			-	Zamak
Finish	Aluminium		Stainless steel	-	Steel
Capacity	100 codes			1.000 cod./card	600
Mounting	Flush/Surface (optional)			Surface	
Controller	Integrated			External	Internal
Audio and visual notification	Yes				
Doors (relays)	2 (2A, No/Nc)		1 (2A, C, No, Nc)	-	1 (2A(C, No,Nc)
PROGRAMMING					
From reader	Yes				
Programming from keypad	-			Yes	
From PC	-				
FUNCTIONS					
Exit push button	2			1	
Door sensor	-			-	
Auxiliary output	Yes (Add ref.2013)			-	
Cloning function	-			Yes	
Code change per user	Yes			-	
Activation of 1 or 2 devices simultaneously	Yes			-	
Integrated proximity	-			-	Yes
Free access	-			-	
Unblocking	-			-	
Duress alarm	Yes			-	
Error code alarm	Yes			-	
SETTING					
Opening time	00-99 sec. (00 bistable)			1-99 sec.	
Open door time	-				
Monostable/ Bistable*	Yes				
Operation mode	Only code			Code, card+code, Card, Code Multicard	
Stand-alone/Centralised	Stand-alone			Auto./Centr.	
Code length	4 to 6 digits				
TECHNICAL FEATURES					
Reader dimensions	105,2x95	130x128	150x180	54x65x9	55x147x20
Flush box	ref.8852	ref.8948 (included)	ref.4641	-	-
Surface box	ref.7062	ref.7061	ref.4645	-	-
Environment protection (IP/IK)	54/07		54/09	-	66/09
Power Supply (V)	12Vac/dc			12Vcc	12/28Vac/dc
Consumption (mA) without lock release	40/110			20/110	25
Compatibility	-			Readers Wiegand26 Wiegand26/4bits	Cards/Keyrings EM, HID (ISOProxII) MIFARE (13,56Mhz)
Proximity protocol/Keypad transmission format	Keypad 8 bits burst			Wiegand26 8/4-8 bits	
Operating temperature	[-15°C to 55°C]				[-40°C to 60°C]

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

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

PROXIMITY

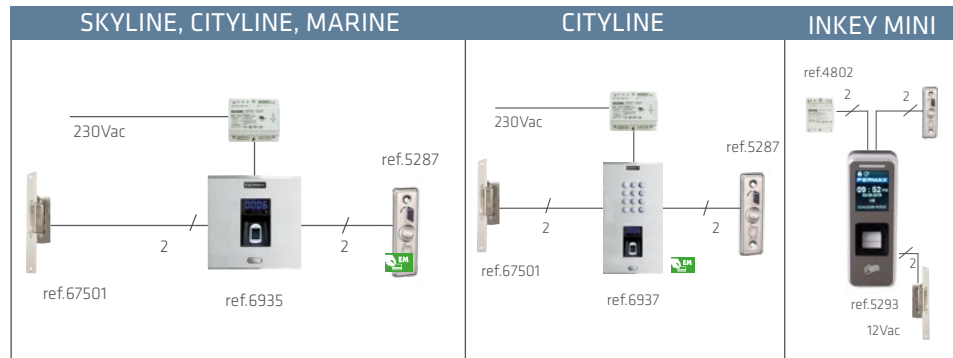


GENERAL FEATURES	7440	6992	5472	5276	5296
Reader types	Modular	Monoblock	Anti-vandal	-	Compact
Keypad types	Injected zamak chromed blue backlighted			-	-
Finish	Aluminium		Stainless steel	-	Metal
Capacity	400 users			1.000 users	-
Mounting	Flush/Surface (optional)			Surface	
Controller	Integrated			External	
Audio and visual notification	Yes			Yes	
Doors (relays)	2 (2A, No/Nc)			1 (2A, C, No, Nc)	-
N° MASTER cards	1			2	-
PROGRAMMING					
From reader	Yes			Yes (includes controller)	
From keypad	Yes (ref.2306)			Yes (includes controller)	
From PC	-			-	
FUNCTIONS					
Exit push button	1			-	
Door sensor	-			-	
Auxiliary output	Yes (Add ref.2013)			-	
Cloning function	Yes			Yes	-
Open or forced door alarm	Yes			-	
SETTINGS					
Opening time	1-99 sec.			1-99 sec.	
Open door time	00-250sg (as default or disabled)			-	
Monostable/Bistable*	Monostable (1-99 sec.)			Yes	
Operation mode	Card			Card or Multicard	
Stand-alone/Centralised	Stand-alone/Centralised			Stand-alone	Stand./Central.
TECHNICAL FEATURES					
Reader dimensions	105,2x47,5	130x128	150x180	54x65x9	103x48x20
Flush box	ref.8851	ref.8948 (includes)	ref.4641	-	-
Surface box	ref.7061	ref.7061	ref.4645	-	-
Environment protection (IP/IK)	54/07		54/09	-	66 66/09
Power Supply (V)	12Vac/dc			12Vdc	
Consumption (mA) without lock release	90/110			20/110	35/25
Compatibility	Cards/keyrings EM 125Khz			Readers Wiegand26	Cards/Keyrings EM, HID (ISOProxII) MIFARE (13,56Mhz)
Proximity protocol/ Keypad transmission format	Stand-alone / Data Clock / Wiegand 26 / Prox. MDS-AC+			Wiegand26	Wiegand26
Operating temperature	[-15°C to 55°C]			[-15°C to 50°C]	[-20°C to 60°C]

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

ACCESS CONTROL. STAND-ALONE

FINGERPRINT



	SKYLINE, CITYLINE, MARINE			CITYLINE	INKEY MINI
GENERAL FEATURES	6936	6935	5482	6937	
Reader types	Modular	Monoblock	Anti-vandal	Monoblock	Inkey mini
Finish	Aluminium		Stainless-steel	Aluminium	ABS plastic/Metal
Capacity	4500 (1 fingerprint) or 2970 (2 fingerprints). Centralised system AC+ 2046 users				5000 users
Mounting	Flush/Surface (optional)				Surface
Controller	Integrate with Stand-alone / external with Centralised need ref. 4420				Integrate with Stand-alone
Audio and visual notification	Yes				
Doors (relays)	1 (2A, No/Nc)				1 (No/Nc) requires ref.2013
PROGRAMMING					
From reader	Yes				
From keypad	Yes				
From PC	Singular Key (Add ref.24661)				Inkey mini (IP)
FUNCTIONS					
Exit push button	1				
Door sensor	Yes				
Auxiliary output	Yes (Add ref.2013, AUX and +)				Yes (Añadir ref.2013)
Cloning function	Yes				
Integrated proximity	Yes				
Free access (trade)	Yes				
Unlocking (always active lock release)	Yes				
Open or forced door alarm	Yes				
SETTING					
Opening time	1-99 sec.				
Open door time	1-99 sec. (as default disabled)				Yes
Monostable/Bistable*	Monostable				
Operation mode	Fingerprint / card / fingerprint+card		Fingerprint / code / card / fingerprint+code/ fingerprint+card		Fingerprint /card/ fingerprint+card
Stand-alone/Centralised	Stand-alone/Centralised				
Operation mode	-		4 or 6 digits		-
TECHNICAL FEATURES					
Reader dimensions	105,2x95	130x128	150x180	130x246	138x48
Flush box	ref.8852	ref.8948 (included)	ref.4641	ref.8855 (included)	-
Surface box	ref.7062	ref.7061	ref.4645	ref.7065	-
Environmental protection (IP/IK)	43/07		43/09	43/07	IP 65
Power Supply (V)	12Vac/dc				12Vdc
Consumption (mA) without lock release	118/73				
Compatibility	Card/Keyring EM 125Khz				MIFARE 13,56 Mhz
Proximity protocol/ Keypad transmission format	-		Keypad 8 bits burst		-
Operating temperature	[-15°C a 55°C]				

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

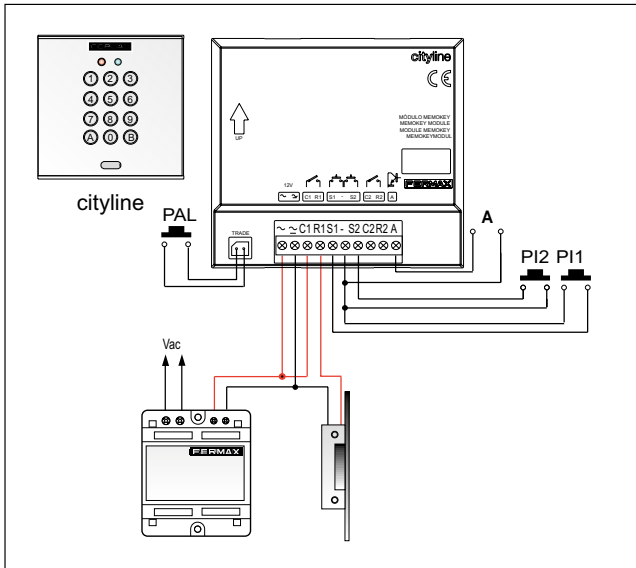
RADIOFREQUENCY

GENERAL FEATURES	5250	5291	5259
Reader types	Basic-2B receiver	Basic MINI receiver	KEYSINGLE MINI emitter
Finish	ABS		ABS
Capacity	500 users		-
Mounting	Surface		-
Controller	Internal		-
Audio and visual notification	Yes		Visual
Doors (relays)	2 (1A, C/No)	1 (3A, C/No)	-
PROGRAMMING			
From receiver	Yes		
FUNCTIONS			
Exit push button	-		
Door sensor	-		
Auxiliary output	-		
SETTING			
Opening time	2 sec.		
Monostable/Bistable*	Monostable (2sec.)/Bistable selectionable in relay 2	Monostable (2sec.)	-
Operation mode	Radiofrequency 868Mhz		
Stand-alone/Centralised	Stand-alone		
TECHNICAL FEATURES			
Dimensions	82x190x40	60x44x18	30x55x10
Environmental protection (IP/IK)	54 (IP65)		
Power supply (V)	12-24Vac/dc		Includes battery 3Vdc CR2032
Consumption (mA) without lock release	60/90	50/100	12
Frequency	868,35Mhz		
Maximum power absorbed	5W		
Radiated power	<25mW		
Distance	100mts		
Codification	High secured changing code. Rolling Code 19 trillion of combinations		
Operating temperature	[-20°C to 85°C]		[-20°C to 55°C]

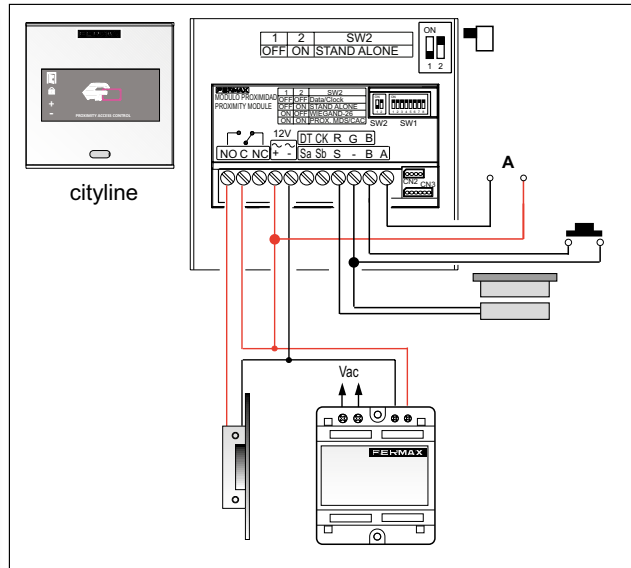
*Bistable: Per each valid identifier, it activates or deactivates the device.

DIAGRAM. STAND-ALONE ACCESS CONTROL INSTALLATION WITH INTEGRATED CONTROLLER

KEYPAD



PROXIMITY



FINGERPRINT

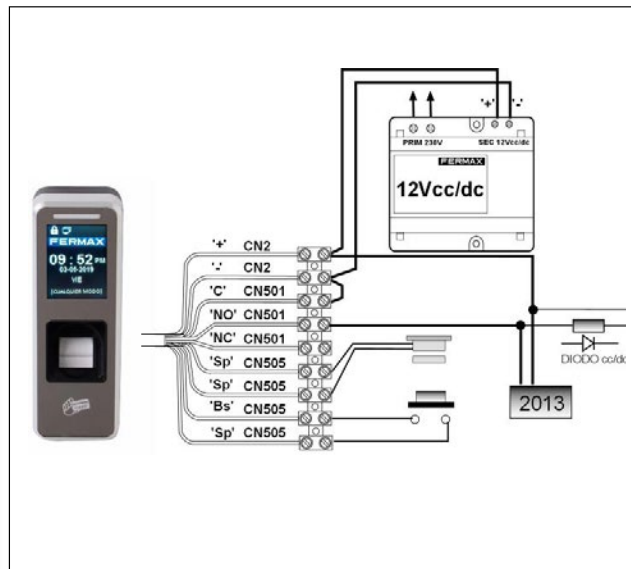
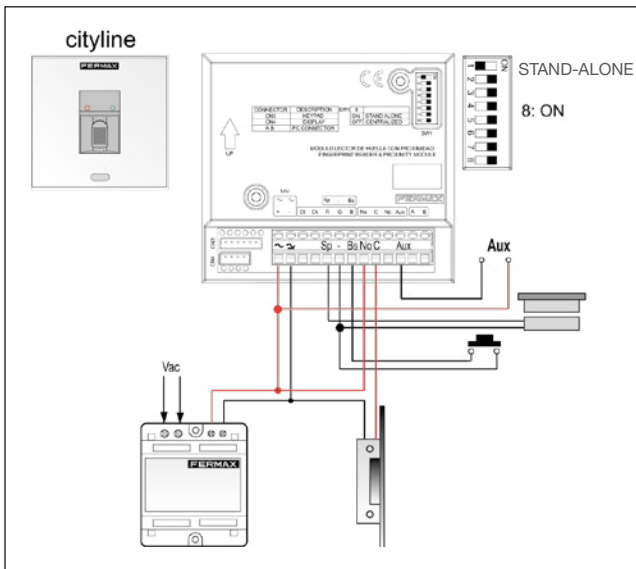
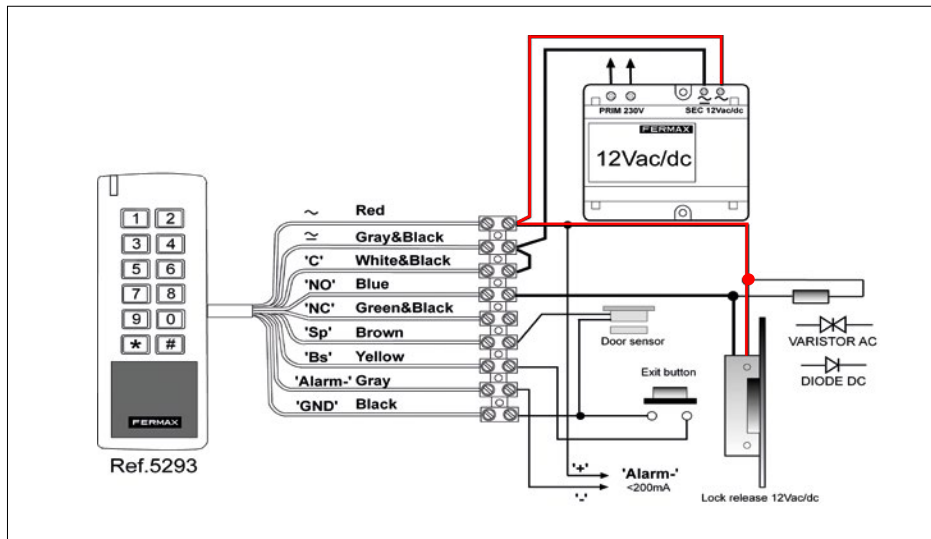


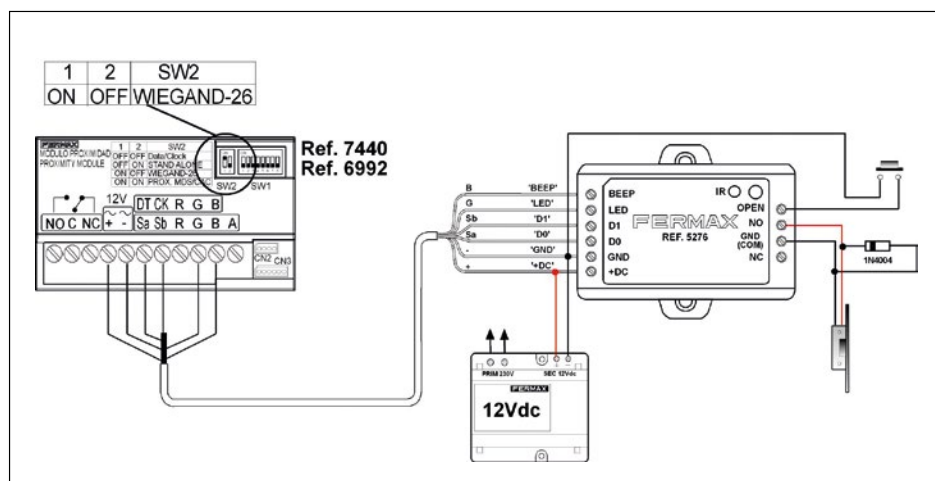
DIAGRAM. STAND-ALONE ACCESS CONTROL INSTALLATION

RESISTANT KEYPAD WITH INTEGRATED CONTROLLER

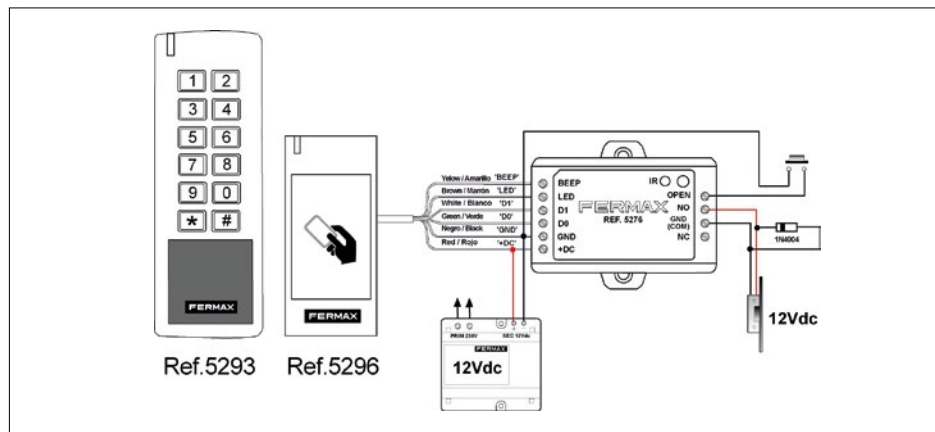


WITH EXTERNAL CONTROLLER

CITY READER WITH MINI CONTROLLER



WG READERS



ACCESS CONTROL. CENTRALISED

KEYPADS

GENERAL FEATURES	7453/7457	6994	4696
Reader types	Modular	Monoblock	Anti-vandal
Keypad types	Injected chromed zamak blue backlighted		
Finish	Aluminium		Stainless steel
Capacity	2046 codes		
Mounting	Flush/Surface (optional)		
Controller	Integrated		
Audio/visual notification	Yes		
Doors (relays)	1 (2A, No/Nc)		
Auxiliary relay	No		
Integrated proximity	No		
PROGRAMMING			
From PC	Software AC Plus		
FUNCTIONS			
Exit push button	1 (Bs y -) Enable in software		
Door sensor	1 (Sp and -)		
Auxiliary output	No		
SETTINGS			
Number of access	0-31 (reader)		
Opening time	From AC Plus software		
Open door time	From AC Plus software		
Monostable/Bistable*	Monostable		
Operation mode	0+cod		
Stand-alone/Centralised	Centralised. MDS-AC+		
Code length	4 to 6 digits		
TECHNICAL FEATURES			
Reader dimensions	105,2x95	130x128	150x180
Flush box	ref.8852	ref.8948 (included)	ref.4641
Surface box	ref.7062	ref.7061	ref.4645
Environment (IP/IK)	54/07		54/09
Power supply (V)	12Vdc		
Consumption (mA) without lock release	70		
Compatibility	-		
Proximity protocol/ Keypad transmission format	8 bits burst keypad		
Operating temperature	[-15°C to 55°C]		
Terminals	+12 (max 0,5A), C, No, NC, +, -, SA, SB, BS, -, SP		

PROXIMITY

GENERAL FEATURES	7440	6992	5472	5296	6995
Reader types	Modular	Monoblock	Anti-vandal	Compact on surface	Monoblock
Keypad types	Injected chromed zamak blue backlighted			Silicone	Injected chromed zamak blue backlighted
Finish	Aluminium		Stainless steel	Metal/ABS	Aluminium
Capacity	2046 users			2046 users	2046 users
Mounting	Flush/Surface (optional)			Surface	Flush/Surface (optional)
Controller (connection lock release)	Configurable with integrated or external controller (In external mode requires ref.4420)			External ref.4420	External ref.4420
Audio/visual notification	Yes				
Doors (relays)	1 (2A, C, No/Nc)				
Auxiliary relay	Yes (ref.4420, 2A, AUX (C, No, Nc))				
PROGRAMMING					
From PC	Software ACPLUS				
FUNCTIONS					
Exit push button	1 (B,-) Enable in software			1 (B,-) ref.4420	1 (B,-) Enable in software 1 (BS,-) with ref.4420
Door sensor	1 (S, -)			-	1 (S,-) 1 (SP,-) with ref.4420
Auxiliary output	Yes (ref.4420, 2A AUX (C, No, Nc))				
SETTINGS					
Number of access	0-31 (reader SW1)			0-31 (ref.4420 -CONFIG-)	
Opening time	From Software ACPLUS				
Open door time	From Software ACPLUS				
Monostable	Yes				
Operation mode	Card			Card	Card. Code. or card + Code + B
Stand-alone/Centralised	Stand-alone / Centralised (Data/Clock/Wiegand26/ PROX. MDS-AC+, (reader SW2))			Centralised Wiegand26 (ref.4420)	Centralised Wiegand26/PROX MDS-AC+ (reader SW2)
TECHNICAL FEATURES					
Reader dimensions	105,2x47,5	130x128	150x180	54x65x9	122x50x21
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	66/09	54/07
Power Supply (V)	12Vdc			12Vdc	
Consumption (mA) without lock release	90/110			35	90/110
Compatibility	Cards/Keyrings EM 125Khz			EM, HID (ISOProxII) MIFARE (13.56MHz)	Cards/Keyrings EM 125Khz
Operating temperature	[-15°C to 55°C]			[-20°C to 60°C]	[-15°C to 55°C]
Terminals	No, C, Nc, +, -, Sa/DT, Sb/CK, S/R, -/G, B, A			+, GND, DO, D1, G, BUZ	No, C, Nc, +, -, Sa/DT,Sb/CK,S/R, -/G,B,A

ACCESS CONTROL. CENTRALISED

FINGERPRINT

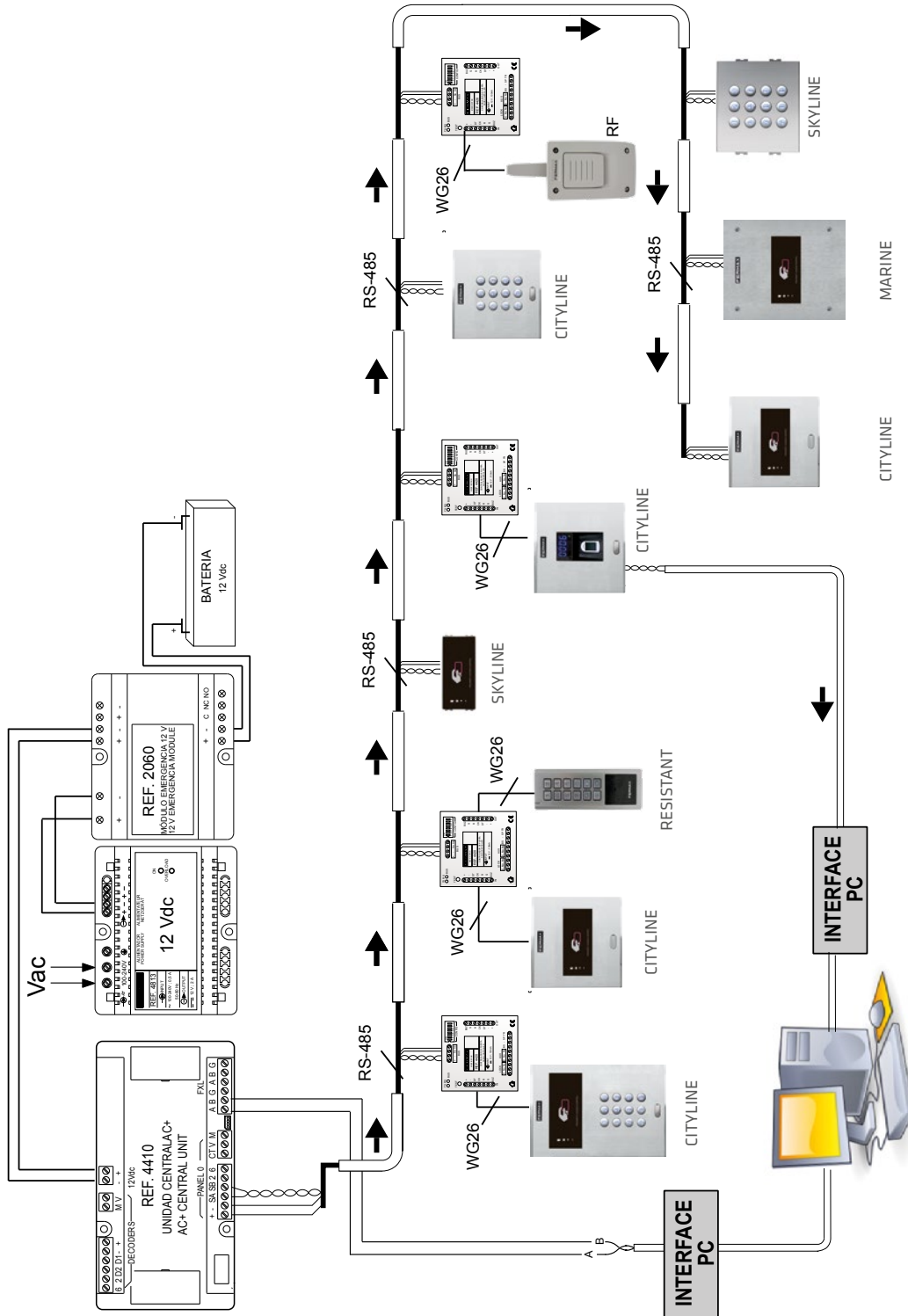
GENERAL FEATURES	6936	6935	5482	6937
Reader types	Modular	Monoblock	Anti-vandal	Monoblock
	Capacitive fingerprint reader with integrated EM 125Mhz proximity			Capacitive keypad/Injected chromed zamak blue backlighted
Finish	Aluminium		Stainless steel	Aluminium
Capacity	2.046 users			
Assembly	Flush/Surface (optional)			
Controller	External in Centralised with ref.4420			
Audio/visual notification	Yes			
Doors (relays)	1 (ref.4420, 2A, LOCK (C,No,Nc))			
Auxiliary relays	1 (ref.4420, 2A, AUX (C,No,Nc))			
Integrated proximity	Yes			
PROGRAMMING				
From PC	Singular Key (add ref.24661) to add users. From ACPLUS for permissions and registration of the system			
FUNCTIONS				
Exit push button	1 (BS,-) controller ref.4420			
Door sensor	1 (SP,-) controller ref.4420			
Auxiliary output	Yes (ref.4420, 2A AUX (C, No, Nc))			
SETTINGS				
Number of access	0-31 (ref.4420 - CONFIG-)			
Opening time	From AC Plus software			
Open door time	From AC Plus software			
Monostable	Yes			
Operation mode standard/security	Fingerprint / card / fingerprint+card			Fingerprint / code / card fingerprint+code / fingerprint+card
Stand-alone/Centralised	Stand-alone/Centralised (SW1)			
Number of digits per code	-			4 to 6 digits
TECHNICAL FEATURES				
Reader dimensions	105,2x95	130x128	150x180	130x246
Flush box	ref.8852	ref.8948 (included)	ref.4641	ref.8855 (included)
Surface box	ref.7062	ref.7061	ref.4645	ref.7065
Environment protection (IP/IK)	43/07		43/09	43/07
Power supply (V)	12Vdc			
Consumption (mA) without lock release	118/73			
Compatibility	Cards/keyrings EM 125Khz			
Proximity protocol/ Keypad transmission format	-			Keypad 8 bits burst
Operating temperature	[-15°C to 55°C]			
Terminals	+, -, Dt, Ck, R, G, B, (Wiegand 26, ref.4420) A, B (RS-485, ref.24661)			

TECLADO WIEGAND

GENERAL FEATURES	5191	5190	5192
Reader types	Modular	Monoblock	Anti-vandal
Keypad types	Injected chromed zamak blue backlighted		
Finish	Aluminium		Stainless steel
Capacity	2046 codes		
Mounting	Flush/Surface (optional)		
Controller	External		
Audio/visual notification	Yes		
Doors (relays)	1 (1A, C/No/Nc)		
Auxiliary relay	No		
Integrated proximity	No		
PROGRAMMING			
Desde PC	Software IP AXES		
FUNCTIONS			
Pulsador de salida	1 (DR y -) / 1 (Push button y GND)		
Sensor de puerta	1 (DC y -) / 1 (Door contact y GND)		
Salida auxiliar	No		
SETTINGS			
Number of access	2 o 4 / Central		
Opening time	From IP AXES software		
Open door time	From IP AXES software		
Monostable/Bistable*	Monostable		
Operation mode	Code + B		
Stand-alone/Centralised	Centralised. IP AXES		
Code length	4 to 6 digits		
TECHNICAL FEATURES			
Reader dimensions	105,2x95	130x128	150x180
Flush box	ref.8852	ref.8948 (included)	ref.4641
Surface box	ref.7062	ref.7061	ref.4645
Environment (IP/IK)	54/07		54/09
Power supply (V)	12Vdc		
Consumption (mA) without lock release	70		
Compatibility	-		
Proximity protocol/ Keypad transmission format	4/8 bits burst keypad (seleccionable por SW1)		
Operating temperature	[-15°C a 55°C]		
Terminals	+, -, DO, D1, R, G, B		

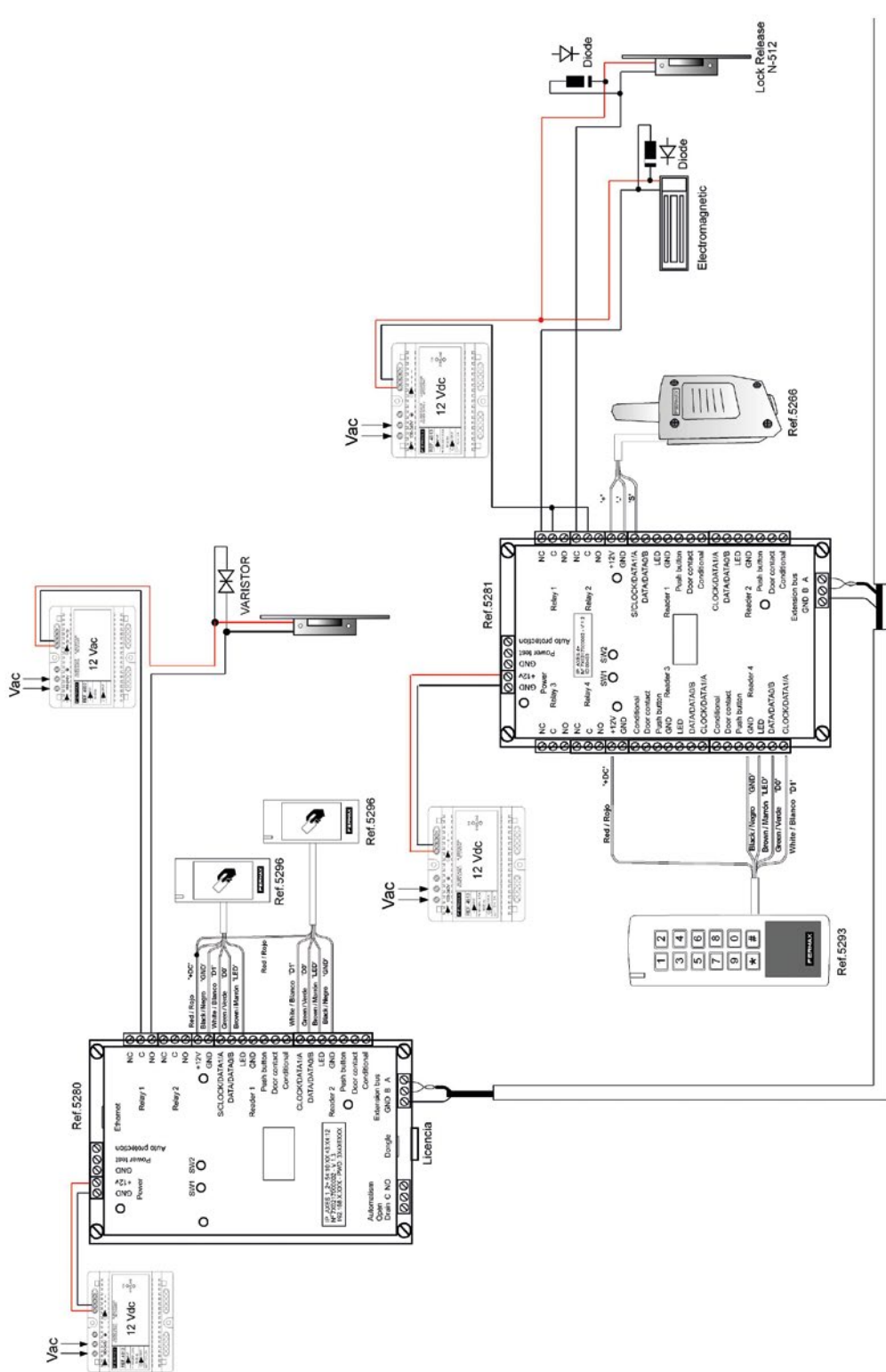
DIAGRAMS. CENTRALISED ACCESS CONTROL INSTALLATION

AC+ CENTRAL UNIT READERS: WITH OR WITHOUT INTEGRATED CONTROLLER



DIAGRAMS. CENTRALISED ACCESS CONTROL INSTALLATION

IP_AXES CENTRAL UNIT READERS: WITHOUT INTEGRATED CONTROLLER



TECHNICAL INFO

ACCESS CONTROL. **CENTRALISED**





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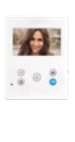









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80397	UNIVERSAL CITYMAX TELEPHONE	02	120
80447	BASIC CITYMAX TELEPHONE	02	120
88101	DOUBLE CONTACT RELAY 18Vdc	04	86,123
88231	POWER SUPPLY/VOLTAGE DISTRIBUTOR	02	121
89992	DOUBLE SPECIAL CITYLINE FRAME (2 PANELS)	02	38,76
89993	TRIPLE SPECIAL CITYLINE FRAME (3 PANELS)	02	38,76
952201	7" MIO WHITE MONITOR	11	61
952701	10" MIO WHITE MONITOR	11	61

IN THE APARTMENT DEPENDING ON THE REQUIRED TECHNOLOGY, CHOOSE BETWEEN MONITORS AND TELEPHONES

MONITORS											
											
TECH.	VEO WiFi	VEO-XS WiFi	VEO	VEO-XS	3,5\" SMILE	7\" SMILE	7\" SMILE TOUCH	7\" MIO	10\" MIO	7\" WIT	10\" WIT
DUOX 2 WIRES	YES	YES	YES	YES							
MEET IP								YES	YES	YES	YES
VDS 5 WIRES			YES		YES	YES	YES				

TELEPHONES				
				
TECH.	LOFT BASIC	LOFT EXTRA	iLOFT	CITYMAX
DUOX 2 WIRES	YES	YES	YES	
VDS 5 WIRES	YES	YES	YES	
4+N	YES	YES		YES

IN THE STREET DEPENDING ON THE REQUIRED TECHNOLOGY, CHOOSE THE OUTDOOR PANEL.

OUTDOOR PANELS						
						
TECH.	SKYLINE	CITYLINE	MARINE	MILO	KIN	CITY CLASSIC
DUOX 2 WIRES	YES	YES	YES			
MEET IP				YES (1 push button & DIGITAL only)	YES (DIGITAL)	
VDS 5 WIRES	YES	YES	YES			
4+N	YES (audio)	YES (audio)	YES (Audio 1 push button)			YES (audio)
MDS	YES	YES	YES			

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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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