FERMAX

General Catalogue 2016

It's about technology. It's about people. It's about you.

NEWS VEO by FERMAX

DESIGN
Fermax Electrónica S.A.U.

GENERAL CATALOGUE 2016
2ND Edition. August 2016

Download it on your mobile.
Check commercial conditions inside front cover.

FERMAX

BUILDING COMMUNICATIONS

Behind each of our products there is a genuine passion. Passion for research. Passion for development. Passion for design and cutting-edge technologies. Passion for excellence. And a shared commitment of putting technology at the service of all.

But there is more. There is a way of doing business that seeks diversity, multiplies the opportunities and believes in partnerships. A corporate style that focuses on clean manufacturing and believes in young talent.

All these values give life to our brand. They are our pure essence. And they lead our way.

With Fermax, it's all about technology. It's all about people.
It's all about you.

Palm Jumeirah **DUBAI-UAE**

Reflections **SINGAPORE**

Eureka Tower **MELBOURNE-AUSTRALIA**

King Abdullah Financial D. **SAUDI ARABIA**

Isozaki Towers **BILBAO-SPAIN**

Millenium Tower **VIENNA-AUSTRIA**

Etihad Towers **ABU DHABI-UAE**

One 57 **NEW YORK-USA**

Capital Group **MOSCOW-RUSSIA**

Central Park **MEXICO CITY-MEXICO**

D'Leedon **SINGAPORE**

Folkart Towers **TURKEY**

BUILDING COMMUNICATIONS

Fermax is a company of Spanish origin specialized in designing, manufacturing and commercializing audio and video door entry systems, with its headquarters based in Valencia, Spain.

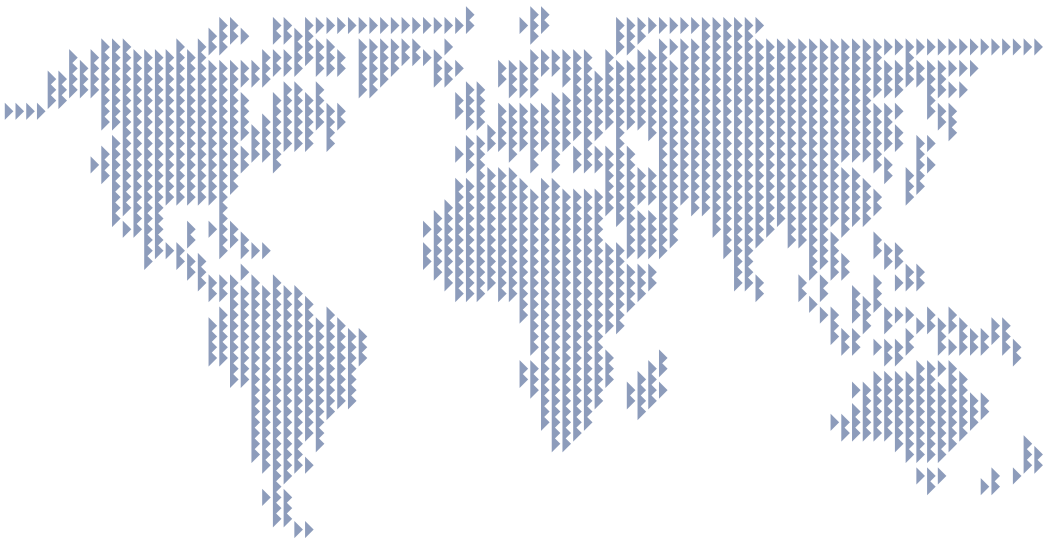
Founded by Mr. Fernando Maestre in 1949, Fermax has always encouraged creativity and entrepreneurial spirit to develop the most innovative advance communications system solutions for the building.

Fermax, throughout its 67 year history, has known how to develop its cutting-edge products, while keeping the essence of its corporate identity unchanged. The values of specialization and a family business, along with a passion for technology and design, have guided the firm to its prominent positioning amongst the world's most important brands.

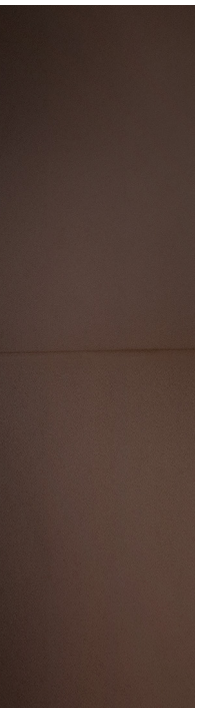
With a decisive customer focus, the team is proud to transmit the Fermax values in the 14 countries where the company has its own subsidiaries or representative offices, as well as in the rest of the 70 countries where Fermax products are sold through a well-established network of distributors.

Today, the company continues to work towards facing future challenges, creating new communication lines and making the video entry system the technological heart of the home. The inclusion in our portfolio of new lines of business such as fully digital video entry systems, home automation or energy-efficient solutions enables the company to supply the most complete range of products to meet the specific needs both of professionals and end-users. Whilst maintaining the firm´s commitment to being an excellent company in the sector, setting the highest quality standards for both products and processes.

Participation in benchmark projects worldwide is the main guarantee of success for Fermax over the years. They make up our past and present, and will continue to be our paradigm in the future.



FERMAX
Search name
and press



INDEX OF CONTENTS

NEW

WAY KIT 06
SMILE MONITORS 08
DUOX 10
ACCESS CONTROL 12

KITS

VIDEO 16
AUDIO 20

PANELS

SKYLINE 28
CITYLINE 38
CITYLINE CLASSIC 42
MARINE 44

DOOR LOCK

FLUSH-MOUNTED 51
SURFACE 52
SPECIALS 53

MONITORS & TELEPHONES

SMILE MONITOR 56
VEO MONITOR
LOFT MONITOR 58
ILOFT MONITOR 60
ILOFT TELEPHONE 62
LOFT TELEPHONE 64
CITYMAX TELEPHONE 65
DESKTOP SUPPORT 66
UNIVERSAL FRAMES 67

SYSTEMS

DUOX 70
VDS 76
ANALOGUE 84
MDS 90

ACC. CON.

STAND-ALONE 102
ADVANCED STAND-ALONE 106
CENTRALIZED 108
ADVANCED CENTRALIZED 112

TECH INFO

PROJECTS 116
DIAGRAMS 123
APPLICATION FORMS 135

INDEX

INDEX OF REFERENCES 137
CONTACTS 144

VEO

by FERMAX

Just **essential**

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

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

VEO is a home essential, an element offering security, beauty and inspiration which provides a balanced space where it is placed.

Full digital. Colour 4,3"
TFT screen.
OSD Menu.
5 melodies.
Additional functions.

VEO by FERMAX

FERMAX

Kit Way

The new Way Kit includes a 7" monitor that allows you to manage, through its capacitive touch screen, a lot of advanced functions. Capture images of your visits or record them, access the call record, activate the "Do not disturb" function or even establish communication with other monitors already installed within the residence.

PLUG&PLAY. The monitor and the door entry panel are already programmed and ready for installation!

THE OUTDOOR PANEL. The Way kit includes a video door entry panel made of zamak metal with high sensitivity colour CCD camera as standard. Surface installation.

THE MONITOR. A digital 7" TFT colour monitor with capacitive touch screen that facilitates an intuitive use.
3 shortcut buttons for quick access without using the screen.

Kits for 1 or 2 residences

Technology: 2 wires non-polarised

Do it your **way**

Way kit features

- 7" TFT capacitive touch screen.
- Sleek and resistant panel made of zamak. Hood included.
- Image memory.
- Intercommunication between monitors.
- Call record with images.
- 20 different ringtones.
- Video recording (with micro SD card. Not included in kit).
- "Do not disturb" function.

Intercom

Establish communication with other monitors installed within the residence. In the 2 apartments kit the option to call another apartment is available as well.

Playback

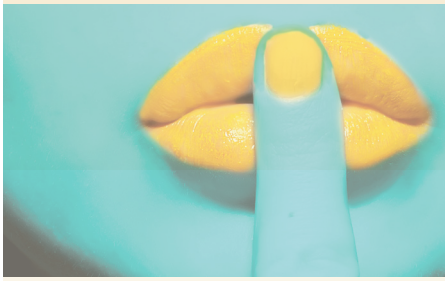
After 3 seconds the monitor automatically records a video (it there is a micro SD Card installed) or a picture (it there isn't) of the visitors. While answering, you also have the option to manually take a snapshot of your visitor. The recorded videos/pictures from the outdoor panel will be played on the screen.

Settings

Brightness, contrast, selection of ringtones, date & time, call volume for day time and night time, language selection (16 languages), etc.

Do not disturb

Take your time to relax.
Activate the Do not Disturb for
1 HOUR, 8 HOURS or PERMANENTLY.



call record

All the calls from panel-to-monitor, monitor-to-panel and between monitors will be recorded and can be reviewed afterwards.

Call record		01/08
06-23	15:22	Neighbour
06-18	20:54	Outdoor Panel
06-12	21:43	Neighbour
05-29	13:16	Inner call
06-18	21:43	Outdoor Panel

Touch screen

Digital TFT colour monitor with capacitive touch screen that facilitates an intuitive use.
3 shortcut buttons for quick access without using the screen.

Improved inside, unbeatable on the outside

High speed response | Simpler and better configurator | Reduced consumption

smiLe

VIDEO DOOR ENTRY

FERMAX

AR

Fermax presents the new generation of our most awarded monitor, SMILE monitor

"Improved inside, unbeatable on the outside". This new version of the monitor sticks to the widely praised and award-winning design, but at the same time, offers greater responsiveness, an improved and simpler configurator and reduced consumption.

Smile comes in two different sizes: with 7" or 3,5" TFT COLOUR screen.
Both them can be installed to a surface or flush-mounted.

CHOOSE YOUR COLOUR

Depending on the style of each home, you can choose between different colours: white, absolute white, silver or black.

DUOX
SMART SYSTEM

Discover 10 good reasons to choose DUOX in your next installation

1. WIRING FLEXIBILITY

3. SIMPLICITY OF INSTALLATION

6. THE LATEST TECHNOLOGY WITHIN EVERYONE'S REACH

8. ROLLING BUSINESS

2. EASY PROGRAMMING

FD
FULL DIGITAL

4.DIGITAL TRANSMISSION

5. THE USER DECIDES

7. DIGITAL PLATFORM AT HOME

9. THE BEST DESIGN

10. ALWAYS NEAR YOU

ACCESS CONTROL

Fermax expands it ACCESS CONTROL range with advanced autonomous systems called **AxesKey,** allowing simpler management of communal installations, new proximity technologies and safer radiofrequency (RF).

A new advanced and centralized system, **IP_Axes,** solves both centralised and distributed installations with IP connectivity and a single completely intuitive software, with new features such as hands-free operation, remote opening sitemap, sending notices by email, etc.

AxesKey

Wiegand RF receiver. Interface 868 MHz

Applicable to roll-up doors, swinging doors, sliding doors, sectional doors, drop doors, fast, glass, gates and revolving doors.

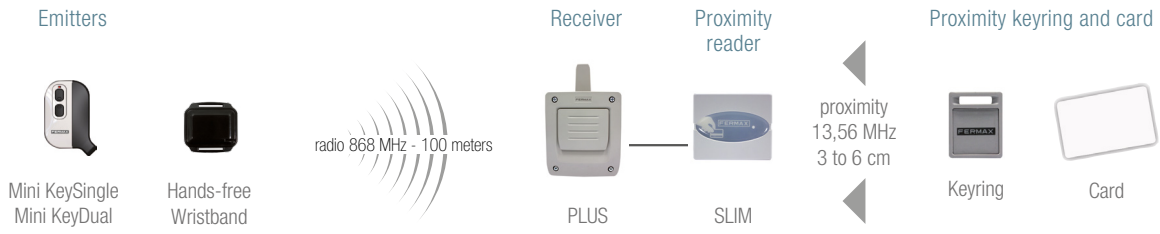
- Versatile
- Reliable and greater sensor distance
- More secure
- Practical

AxesKey Plus

868 MHz receiver with connection to proximity readers

Applicable to roll-up doors, swinging doors, sliding doors, sectional doors, drop doors, fast, glass, gates and revolving doors.

- Versatile
- Reliable and greater sensor distance
- More secure
- Easy to add more emitters
- Simplified management
- Flexible and fast programming



IPAxes

ON-LINE access control system

Applicable to roll-up doors, swinging doors, sliding doors, sectional doors, drop doors, fast and gates doors.

Central Access Control ONLINE for 2 readers.
- PC connection via TCP/IP.
- Module connection expansion with RS485.
  - IP AXES 4 expansion module: 4 additional entries/exits.
  - IP AXES I/O expansion module: 8 additional entries/exits.
  - Up to 10 expansion modules for each IP AXES 1_2.

Up to 64 IP AXES 1_2 connected by network.

IP AXES 1_2
IP AXES 4
IP AXES I/O

Dual technology programmable 868 MHz emitters
KEYDUAL or KEYSINGLE

Evolved is the name of Fermax DUAL-TECHNOLOGY emitters.

These emitters have a functional durability. At the same time they are programmable , these emitters are also proximity elements, permitting the management of door opening by radio or proximity.

SLIM. 13,56 MHz proximity reader

In the Fermax proximity readers range, there is an interior's solution to 13,56MHz with exits L-BUS, S-BUS and Wiegand.

VIDEO KITS
AUDIO KITS

KITS

FERMAX VIDEO KITS

INDIVIDUAL RESIDENCES AND SME'S

HANDS-FREE KITS

2 WIRES

1401 1/W 7" WAY VIDEO KIT

1416	1/W WAY panel with hood. Panel: 95x155x25.
1412	7" TFT colour monitor.
1410	Power supply.

1402 2/W 7" WAY VIDEO KIT

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

1418 ADDITIONAL WAY RELAY. Allows to opening a second door, switch on the stairs' lighting, etc. from the Way monitor.

VDS

5071 1/W VDS 7" SMILE KIT

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

5072 2/W VDS 7" SMILE KIT

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

VDS

4950 1/W VDS iLOFT VIDEO KIT

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

5021 1/W VDS iLOFT PURE SURFACE VIDEO KIT

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

VDS

5061 1/W VDS 3,5" SMILE KIT

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

5062 2/W VDS 3,5" SMILE KIT

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

STAR KITS

NEW

9411 1/W COLOUR VDS VEO VIDEO KIT

48505	1W COLOUR VDS CITY panel. 130x128
8948	Flush box S1: 115x114x45.
9401	VDS COLOUR VEO 4,3" Monitor.
9402	VEO VDS connector.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.

9412 2/W COLOUR VDS VEO VIDEO KIT

The same as in ref.9411 but with 2/W panel (ref.48515), two VEO monitors (ref.9401) and two connectors (ref.9402).

NEW

2 wires

DUOX

9421 1/W COLOUR DUOX VEO VIDEO KIT

70708	1W COLOUR DUOX CITY panel. 130x128
8948	Flush box S1: 115x114x45.
9405	DUOX COLOUR VEO 4,3" Monitor.
9406	VEO connector.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
3244	DUOX filter.
3255	Line adaptor.

9422 2/W COLOUR DUOX VEO VIDEO KIT

The same as in ref.9421 but with 2/W panel (ref.70008) , two VEO monitors (ref.9405) and 2 connectors (ref.9406).

VIDEO KITS

| INDIVIDUAL RESIDENCES AND SME'S

VDS

4961 1/W VDS COLOUR CITY VIDEO KIT

48505	1/W COLOUR VDS CITY and flush box (ref.8948). Panel S1: 130x128 / Kit flush box: 115x114x45.
3305	VDS COLOUR LOFT monitor.
3314	Surface connector.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A.DIN10.

4960 1/W VDS B/W CITY VIDEO KIT

The same as in ref.4961 but with B/W VDS LOFT monitor (ref.3311).

49627 2/W VDS COLOUR CITY VIDEO KIT

The same as in ref.4961 but with 2 LOFT monitors (ref.3305), 2 connectors (ref.3314) and a 2/W City panel (ref.48515).

2 wires DUOX

4341 1/W DUOX COLOUR CITY VIDEO KIT

70708	1/W COLOUR DUOX CITY panel. S1: 130x128
8948	Flush box S1: 115x114x45.
3412	COLOUR DUOX LOFT monitor.
3415	DUOX surface connector.
3244	DUOX filter.
3255	Line adaptor.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A.DIN10.

4342 2/W DUOX COLOUR CITY VIDEO KIT

The same as in the kit ref.4341 but with 2/W video panel (ref.70008) and 2 LOFT monitors (ref.3412).

STAINLESS STEEL KIT

2 wires DUOX

VDS

5489 1/W DUOX COLOUR MARINE VIDEO KIT

54338	1/W COLOUR DUOX MARINE panel and flush box (ref.4641). Panel ST1: 150x180. Flush box ST1. 130x160x55.
9405	COLOUR DUOX VEO monitor.
9406	DUOX connector.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A. DIN 10.
3244	DUOX filter.
3255	Line adaptor.

5432 1/W VDS COLOUR MARINE VIDEO KIT

With 1/W colour VDS Marine panel (ref.54357), Loft Monitor and connector (ref.3305+ref.3314) and PSU (ref.4810).

ONE TO ONE KIT

2 wires DUOX

VDS

4908 1/W DUOX COLOUR ONE-TO-ONE VIDEO KIT

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

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

With 1/W VDS One-to-one City panel and kit flush box S4 (ref.7357), colour VDS Loft monitor with induction loop end its connector (ref.2438) and PSU (ref.4810)

KIT WITH KEYPAD

2 wires DUOX

VDS

4907 1/W DUOX VEO MEMOVISION KIT

7388.	1/W COLOUR DUOX MEMOVISION panel. Panel S5: 130x246.
8855.	Flush box S5: 115x233x45.
9405	COLOUR DUOX VEO monitor.
9406	DUOX connector.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A. DIN 10.
3244	DUOX filter.
3255	Line adaptor.

4984 1/W VDS LOFT MEMOVISION KIT

With 1/W colour VDS memovision panel (ref.4902), flush box (ref.8855), Loft Monitor and connector (ref.3305+ref.3314) and PSU (ref.4810).

KIT WITH FINGERPRINT READER

VDS

4926 1/W COLOUR VDS BIOVISION KIT

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

FERMAX VIDEO KITS
| BUILDINGS

DUOX

BUILDING KITS UP TO 24 APARTMENTS
INSTALLATION: 2 WIRES

2 wires
non polarised

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

LOFT
Monitors NOT included

49638 3/W DUOX VIDEO KIT

70738	4CP103 DUOX CITY panel. S4: 130x199.
8949	Kit flush box S4: 115x185x45.
2008	8-call extension module.
3255	Line adaptor (2 units).
3244	DUOX filter.
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A.

3 apartments

49648 4/W DUOX VIDEO KIT

70748	4CP104 DUOX CITY panel. S4: 130x199.
8949	Kit flush box S4: 115x185x45.
2008	8-call extension module.
3255	Line adaptor (2 units).
3244	DUOX filter.
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A.

4 apartments

49658 5/W DUOX VIDEO KIT

70828	5CP105 DUOX CITY panel. S5: 130x246.
8855	Kit flush box S5: 115x233x45.
2008	8-call extension module.
3255	Line adaptor (2 units).
3244	DUOX filter.
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A.

5 apartments

49668 6/W DUOX VIDEO KIT

70038	4CP203 DUOX CITY panel. S4: 130x199.
8949	Kit flush box S4: 115x185x45.
2008	8-call extension module.
3255	Line adaptor (2 units).
3244	DUOX filter.
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A.

6 apartments

49688 8/W DUOX VIDEO KIT

70048	4CP204 DUOX CITY panel. S4: 130x199.
8949	Kit flush box S4: 115x185x45.
2008	8-call extension module.
3255	Line adaptor (2 units).
3244	DUOX filter (2 units).
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A.

8 apartments

49718 10/W DUOX VIDEO KIT

70128	5CP205 DUOX CITY panel. S5: 130x246.
8855	Kit flush box S5: 115x233x45.
2441	16-call extension module.
3255	Line adaptor (2 units).
3244	DUOX filter (2 units).
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A.

10 apartments

49728 12/W DUOX VIDEO KIT

70138	5CP206 DUOX CITY panel. S5: 130x246.
8855	Kit flush box S5: 115x233x45.
2441	16-call extension module.
3255	Line adaptor (2 units).
3244	DUOX filter.
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A.

12 apartments

49738 14/W DUOX VIDEO KIT

70228	CITY DUOX 6CP207 panel. S6: 130x294.
8856	Kit flush box S6: 115x280x45.
2441	16-call extension module.
3255	Line adaptor (2 units).
3244	DUOX filter (2 units).
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A (2 units).

14 apartments

49748 16/W DUOX VIDEO KIT

70238	6CP208 DUOX CITY panel. S6: 130x294.
8856	Kit flush box S6: 115x280x45.
2441	16-call extension module.
3255	Line adaptor (2 units).
3244	DUOX filter (2 units).
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A (2 units).

16 apartments

49758 18/W DUOX VIDEO KIT

70328	7CP209 DUOX CITY panel. S7: 130x341.
8857	Kit flush box S7: 115x328x45.
2441	16-call extension module (2 units).
3255	Line adaptor (2 units).
3244	DUOX filter (2 units).
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A (2 units).

18 apartments

VIDEO KITS

| BUILDINGS

DUOX

49768 20/W DUOX VIDEO KIT

70338	7CP210 DUOX CITY panel. S7: 130x341.
8857	Kit flush box S7: 115x328x45.
2441	16-call extension module (2 units).
3255	Line adaptor (2 units).
3244	DUOX filter (2 units).
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A (2 units).

20 apartments

49778 22/W DUOX VIDEO KIT

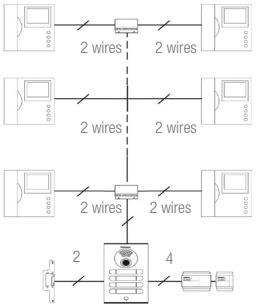
71148	8CP211 DUOX CITY panel. S8: 130x389.
8858	Kit flush box S8: 115x375x45.
2441	16-call extension module (2 units).
3255	Line adaptor (2 units).
3244	DUOX filter (2 units).
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A (2 units).

22 apartments

49788 24/W DUOX VIDEO KIT

71158	CITY DUOX 8CP212 panel. S8: 130x389.
8858	Kit flush box S8: 115x375x45.
2441	16-call extension module (2 units).
3255	Line adaptor (2 units).
3244	DUOX filter (2 units).
4800	Power supply 12Vac/1,5A. DIN4.
4812	Power supply 18Vdc/1,5A (2 units).

24 apartments



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

BUILDING KITS

Recommended for buildings of more than 25 homes. The KITS include all the material needed for a full video door entry installation, except monitors, connectors and video distributors (if required).
There are two 199 VIDEO KIT models:
- 199 DIRECT VIDEO KIT. Includes DIRECT panel with keypad for house calls. The call codes assigned to each door can be indicated in the built-in directory panel. The keypad has a built-in access control function.
The electric lock is triggered when a code up to 6 digits is entered. 1 common code per panel.
- 199 DIGITAL VIDEO KIT. Includes DIGITAL panel with keypad and electronic directory. Door codes and residents' names are shown on the e-agenda type DISPLAY. Keypad with built-in access control function.
Allows for the programming of up to 350 different users/codes.

DUOX BUILDING KITS INSTALLATION: 2 wires

4956 DUOX DIRECT KIT

7363	DUOX DIRECT COLOUR VIDEO CITY panel. Panel S5: 130x246.
7309	DIRECTORY CITY panel. S5: 130x246.
8855	Flush box S5 (2 units): 115x233x45.
3244	DUOX filter (2 units).
8829	Joining bolts set.
3255	Line adaptor (2 units).
4800	Power supply 12Vac/1,5A. DIN 4.
4812	Power supply 18Vdc/1,5A (2uds.).

4957 DUOX DIGITAL KIT

7364	DUOX DIGITAL COLOUR VIDEO CITY panel. Panel S7: 130x341.
8857	Flush box S7: 115x328x45.
3244	DUOX filter (2 units).
3255	Line adaptor (2 units).
4800	Power supply 12Vac/1,5A. DIN 4.
4812	Power supply 18Vdc/1,5A (2uds.).

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

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

4979 VDS DIRECT KIT

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

4915 VDS DIGITAL KIT

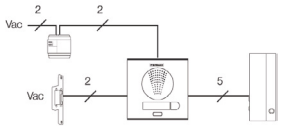
Same as kit ref.4957 but with VDS panel (ref.7299) and power supply ref.4830 and ref.4800.

AUDIO KITS

INDIVIDUAL RESIDENCES AND SME'S

ANALOGUE TECHNOLOGY

5 wires



4860 1/W 4+N CITY AUDIO KIT

Includes

4845	1/W 4+N CITY panel and flush box (ref.8948). Panel S1: 130x128. Kit flush box: 115x114x45.
3393	4+N LOFT BASIC telephone.
4800	Power supply 12Vac/1,5A-DIN4.

Extensions (without extra power supply)

3 LOFT telephones (ref.3393). For more than 4 telephones, 1 power supply ref.4812 and 1 call multiplier (ref.2340) is required.

2nd Audio access

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

Accessories

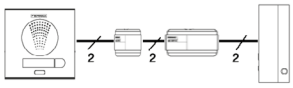
30711	Door lock 450N-S (12Vac).
8948	Kit flush box S1.
7061	Surface box S1. 130x128X33.
9191	Decorative frame S1: 211x210.
8400	Hood S1: 135x130.
3380	Telephone decorative frame. 200x240.

4862 2/W 4+N CITY AUDIO KIT

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

DUOX TECHNOLOGY

2 wires
DUOX



4920 1/W DUOX CITY AUDIO KIT

Includes

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

Extensions

2 DUOX LOFT telephones (ref.3421).

2nd Audio access

70704	1/W audio panel.
8948	Flush box.

Accessories

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

4921 2/W DUOX CITY AUDIO KIT

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

CLASSIC KITS

5 wires

6201 1/W CITYMAX AUDIO KIT

Includes

8300	1/W CITY CLASSIC panel and flush box. Panel S1: 130x128 Kit flush box S1: 115x114x45.
80447	CITYMAX BASIC telephone.
4800	Power supply. 12Vac/1,5A-DIN4.

2nd Audio access

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

Accessories

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

6202 2/W CITYMAX AUDIO KIT

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

AUDIO KITS

| INDIVIDUAL RESIDENCES AND SME'S

LUXURY KIT. Hands-free

VDS

4878 1/W VDS iLOFT AUDIO KIT

48455	1/W VDS AUDIO CITY panel. Panel S1: 130X128.
8948	Kit flush box S1: 115x114x45.
5601	VDS iLOFT telephone.
4800	Power supply 12Vac/1,5A. DIN 4.

STAINLESS STEEL KIT

VDS

5431 1/W VDS MARINE AUDIO KIT

54333	1/W VDS AUDIO MARINE panel and flush box. (Flush box included ref.4641) Panel ST1: 150x180. Flush box ST1: 130x160x55.
3391	VDS LOFT EXTRA telephone.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A. DIN 10.

KIT WITH KEYPAD

VDS

4982 1/W VDS MEMOPHONE KIT

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

KIT WITH FINGERPRINT READER

VDS

4925 1/W VDS BIOPHONE KIT

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

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

FERMAX AUDIO KITS

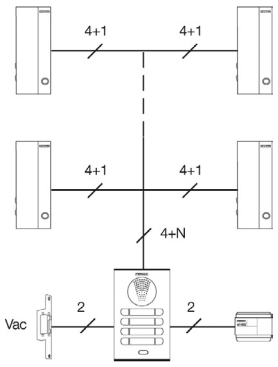
| BUILDINGS

BUILDING KITS UP TO 24 APARTMENTS

INSTALLATION: 4+N (1 WIRE PER APARTMENT)

KIT EXTENSION AND ACCESSORIES:

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



4+N basic installation

4860 1/W CITY AUDIO KIT

4845	1AP101 CITY kit panel and flush box. Panel S1: 130x128. Flush box (ref.8948) S1: 115x114x45.
3393	LOFT 4+N telephone.
4800	Power supply 12Vac/1,5A. DIN4.

(4+1)

4862 2/W CITY AUDIO KIT

4846	1AP201 CITY kit panel and flush box. Panel S1: 130x128. Flush box (ref.8948) S1: 115x114x45.
3393	LOFT 4+N telephone (2 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+2)

4863 3/W CITY AUDIO KIT

4847	4AP103 CITY kit panel and flush box. Panel S4: 130x199. Flush box (ref.8949) S4: 115x185x45.
3393	LOFT 4+N telephone (3 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+3)

4864 4/W CITY AUDIO KIT

4848	4AP104 CITY kit panel and flush box. Panel S4: 130x199. Flush box (ref.8949) S4: 115x185x45.
3393	LOFT 4+N telephone (4 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+4)

4866 6/W CITY AUDIO KIT

4849	4AP203 CITY kit panel and flush box. Panel S4: 130x199. flush box (ref.8949) S4: 115x185x45.
3393	LOFT 4+N telephone (6 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+6)

4868 8/W CITY AUDIO KIT

4852	4AP204 CITY kit panel and flush box. Panel S4: 130x199. Flush box (ref.8949) S4: 115x185x45.
3393	LOFT 4+N telephone (8 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+8)

4865 10/W CITY AUDIO KIT

4853	5AP205 CITY kit panel and flush box. Panel S5: 130x246. Flush box (ref.8855) S5: 115x233x45.
3393	LOFT 4+N telephone (10 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+10)

4867 12/W CITY AUDIO KIT

4854	5AP206 CITY kit panel and flush box. Panel S5: 130x246. Flush box (ref.8855) S5: 115x233x45.
3393	LOFT 4+N telephone (12 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+12)

AUDIO KITS

BUILDINGS

4869 14/W CITY AUDIO KIT

x14

4855	6AP207 CITY kit panel and flush box. Panel S6: 130x294. Flush box (ref.8856) S6: 115x280x45.
3393	LOFT 4+N telephone (14 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+14)

4871 16/W CITY AUDIO KIT

x16

4856	6AP208 CITY kit panel and flush box. Panel S6: 130x294. Flush box (ref.8856) S6: 115x280x45.
3393	LOFT 4+N telephone (16 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+16)

4874 18/W CITY AUDIO KIT

x16

4857	7AP209 CITY kit panel and flush box. Panel S7: 130x341. Flush box (ref.8857) S7: 115x328x45.
3393	LOFT 4+N telephone (18 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+18)

4875 20/W CITY AUDIO KIT

x20

4858	7AP210 CITY kit panel and flush box. Panel S7: 130x341. Flush box (ref.8857) S7: 115x328x45.
3393	LOFT 4+N telephone (20 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+20)

4876 22/W CITY AUDIO KIT

x22

4843	8AP211 CITY kit panel and flush box. Panel S8: 130x389. Flush box (ref.8858) S8: 115x375x45.
3393	LOFT 4+N telephone (22 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+22)

4877 24/W CITY AUDIO KIT

x24

4844	8AP212 CITY kit panel and flush box. Panel S8: 130x389. Flush box (ref.8858) S8: 115x375x45.
3393	LOFT 4+N telephone (24 units).
4800	Power supply 12Vac/1,5A. DIN4.

(4+24)

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

VOX 199 KITS are VDS audio door entry equipment for buildings up to 199 apartments. Includes: panel (or panels) with its flush box, 1 power supply 18Vdc (ref.4830) up to 80 apartments, and a power supply 12Vac (ref.4800) for the alternating current electric lock release installation.
To complete the installation request the necessary telephones (ref.3390, ref.3391 or ref.5601). An additional power supply is needed for every 80 additional telephones (ref.4830).

For the rest of the installation, see VDS system.

4980 199 VOX KIT VDS

7308	VDS DIRECT CITY S5 panel.
7309	DIRECTORY CITY S5 panel.
8855	Flush box S5 (2 units) 115x233x45.
8829	Joining bolts set.
4830	Power supply 18Vdc/3,5A. DIN 6
4800	Power supply 12Vac/1,5A. DIN 4

4916 199 DIGITAL VOX KIT VDS

7303	VDS DIGITAL CITY panel S7: 130x341.
8857	Flush box S7: 115x328x45.
4830	Power supply 18Vdc/3,5A. DIN 6.
4800	Power supply 12Vac/1,5A. DIN 4.

FERMAX AUDIO KITS
| BUILDINGS

CITYMAX KITS UP TO 24 APARTMENTS
INSTALLATION: 4+N (1 WIRE PER APARTMENT)

KIT EXTENSIONS AND ACCESSORIES:
- 2nd Access: Required panel and flush box + audio switcher (ref.8811) + voltage distributor
- At apartment: Up to 3 telephones (ref.80447) without additional power supply.
- Recommended door lock: 450N-S (ref.30711).

ANALOGUE

6201 1/W CITYMAX AUDIO KIT

8300.	1/W CITY CLASSIC panel and flush box (flush box included ref.8948). Panel S1: 130x128. Kit flush box S1: 115x114x45.
80447	CITYMAX BASIC telephone.
4802	Power supply 12Vac/1A. DIN4.

4+1

6202 2/W CITYMAX AUDIO KIT

8301	2/W CITY CLASSIC panel and flush box (flush box included ref.8948). Panel S1: 130x128. Kit flush box S1: 115x114x45.
80447	CITYMAX BASIC telephone (2 units).
4802	Power supply 12Vac/1A. DIN4.

4+2

6203 3/W 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.

4+3

6204 4/W 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.

4+4

6206 6/W 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.

4+6

6208 8/W 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.

4+8

6210 10/W CITYMAX AUDIO KIT

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

4+10

6212 12/W CITYMAX AUDIO KIT

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

4+12

AUDIO KITS

| BUILDINGS

6214 14/W CITYMAX AUDIO KIT

x14

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

4+14

6216 16/W CITYMAX AUDIO KIT

x16

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

4+16

6218 18/W CITYMAX AUDIO KIT

x18

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

4+18

6220 20/W CITYMAX AUDIO KIT

x20

8701	20/W CITY CLASSIC panel. Panel S7: 130x341.
8857	Flush box S7. Flush box S7: 115x328x45.
80447	CITYMAX BASIC telephone (20 units).
4802	Power supply 12Vac/1A. DIN4.

4+20

6222 22/W CITYMAX AUDIO KIT

x22

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

4+22

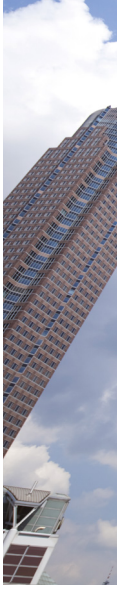
6224 24/W CITYMAX AUDIO KIT

x24

8741	24/W CITY CLASSIC panel. Panel S8: 130x389.
8858	Flush box S8. Flush box S8: 115x375x45.
80447	CITYMAX BASIC telephone (24 units).
4802	Power supply 12Vac/1A. DIN4.

4+24

Europe Building
Gresham St,6



SKYLINE
CITYLINE
CITY CLASSIC
MARINE

OUTDOOR PANELS

FERMAX SKYLINE PANEL

SKYLINE
INFINITE POSSIBILITIES

ABSOLUTE VERSATILITY. MODULAR COMPOSITION

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

It's versatility makes it the only panel capable to respond to any requirement which may arise in any residential, industrial or service sector project.

It's modular design and versatility provide TOTAL CREATIVE FREEDOM to create any imaginable combination.

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

COMBINES

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

ENHANCES

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

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

RESISTS

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

SKYLINE PANEL

PROJECT

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

VIDEO AND AUDIO MODULES

Video W

Audio W

SKYLINE FRAMES

Frame 1V-S1.130x128

Frame 2V-S2.130x151

Frame 3V-S4.130x199

Frame 4V-S5.130x246

Frame 5V-S6.130x294

Frame 6V-S7.130x341

Frame 7V-S8.130x389

Frame 8V-S9.130x436,5

DOUBLE PUSH BUTTONS

8 Push. 204W

4 Push. 202V

2 Push. 201V

SINGLE PUSH BUTTONS

4 Push. 104W

2 Push. 102V

1 Push. 101V

DIGITAL MODULES

Direct / Digital keypad W

Display W

Display Extra W

Digitiser MDS V

INFORMATION MODULES

Cardholder W

Cardholder V

OneToOne V

ACCESSORIES

Metallic complement W

Metallic complement V

ACCESS CONTROL

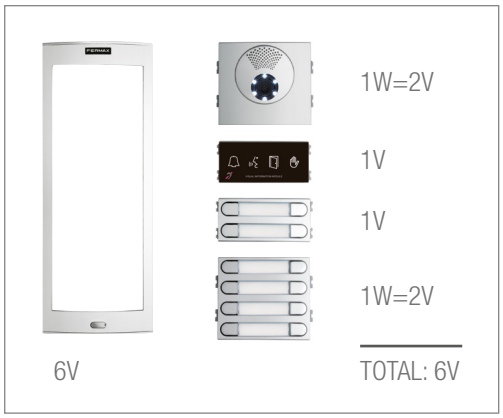
Keypad W

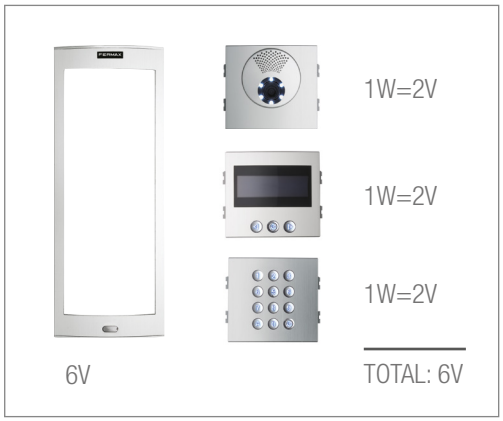
Fingerprint W

Proximity V

FERMAX SKYLINE PANEL

SKYLINE INFINITE POSSIBILITIES





COMBINATIONS

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

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

V = 105,2x47,5mm

W = 105,2x95mm

Frames are designated according to their V module inclusion capacity.

Module assembly sequence

ASSEMBLY

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

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

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

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

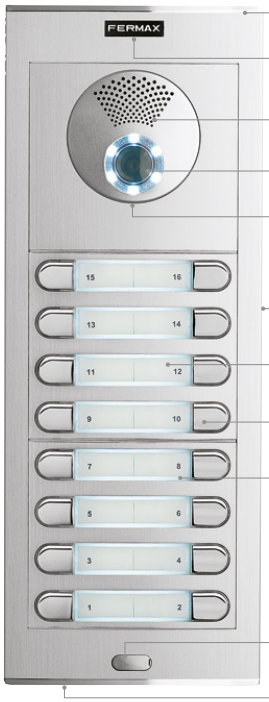
The push buttons contacts and digital keypad are watertight, assuring their operation and reliability.

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

Dimensions: (width) x (height) mm.

TECHNICAL FEATURES

DUOX VIDEO PANEL WITH PUSH BUTTONS



Zamak injected profile tops.

Sliding logo. Concealed screw bolt fixes panel to flush box.

High power and performance **2W amplifier.** Elliptical loudspeaker.

COLOUR CCD **camera** with optical of 3,7mm.

Compact audio-video module. Frontal module in aluminium and inner stainless steel grid.

Extruded aluminium curved-convex **profile** . Anodized finish.

Lighting for night vision by LEDs.

Zamak injected **call button** with chromed finish.

Polycarbonate **card slot.** Frontal card slot access. Outdoor resistant labels.

Concealed **screw bolt** fixes panel to flush box.

High sensitivity **microphone**.

REAR VIEW

Voice synthetizer as standard. “The door is open. Please, close the door behind you””.

Adjustment of conversation’s volume control from monitor, outdoor panel and synthesizer message.

Electronic circuit manufactured in SMD. **DUOX connections:**

B,B: Bus DUOX	Power supply telephones/monitors, dates, audio and video.
C, NO, NC	Relay contacts, 2A@30Vdc (door lock connections).
+12	Output 12 Vdc - 250mA.
BS, -	Egress button.
S, -	Door sensor input.
+, GND	Not available yet.

Smart connection between modules. Extension call modules are not required.

Push button with waterlight contacts. Able to resist 100.000 pressings in 48 hours.

Laterally folding **hinges.**

1. FRAMES

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

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

ref.7341
1V

ref.7332
2V

ref.7333
3V

ref.7334
4V

ref.7335
5V

ref.7336
6V

ref.7337
7V

ref.7338
8V

TWO OR MORE PANELS

8829	JOINING BOLTS SET

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

CONNECTION CABLES

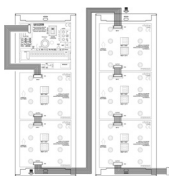
Needed when there is more than one frame for connection of push buttons modules between frames (70 cm).

Choose the right cable depending on the panel configuration:

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

2540	4+N (3W) CONNECTION CABLE
2541	DUOX/VDS (6W) CONNECTION CABLE
2542	DUOX/VDS (5W) CONNECTION CABLE
2543	MDS (7W) CONNECTION CABLE
2545	PROX (4W) CONNECTION CABLE (Add with secondary proximity readers)

ref.2541/ 2540



DUOX/VDS

SKYLINE PANEL

SKYLINE PANEL ACCESSOIRES

FLUSH BOX
Made in aluminium and zamak, with folding hinges.

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

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

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

MODULAR DECORATIVE FRAME
In replacements, allows the cover up of the hole left by the old panel. It is also an aesthetic element. Modular assembly.

MODULAR FRAME.
Elements included

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

* To make DOUBLE modular frames, add to the SINGLE frame a DOUBLE PANEL MODULAR FRAME KIT ref.9200 H:341mm.
* To make TRIPLE modular frames, add to the SINGLE frame a TRIPLE PANEL MODULAR FRAME KIT ref.9201 H:471mm.

Dimensions: (width) x (height) mm.

1. MODULES

VIDEO AND AUDIO AMPLIFIER

7391	DUOX VIDEO MODULE W
7421	VDS VIDEO MODULE W
7406	4+N VIDEO MODULE W

VIDEO COLOUR MOULE W

7390	DUOX AUDIO MODULE W
7415	VDS AUDIO MODULE W
7400	4+N AUDIO MODULE W

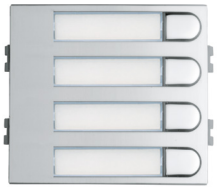
AUDIO MODULE W

PUSH BUTTON MODULES

DOUBLE PUSH BUTTONS

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

8 PUSH. 204 W

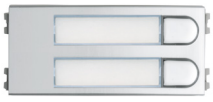


4 PUSH. 104 W

SINGLE PUSH BUTTONS

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

4 PUSH. 202 V



2 PUSH. 102 V

2 PUSH. 201 V

1 PUSH. 101 V

BRAILLE LABELS

6946	BRAILLE DOUBLE PUSH BUTTON LABEL. Nº1-76
6945	BRAILLE SINGLE PUSH BUTTON LABEL. Nº1-76

DIGITAL MODULES

The DISPLAY module makes it possible to search through the list of residents and their allocated door codes (telephone book type). It indicates the communication status. The keys ◁ ▷ allow to browse through the menu. Press △ to call the apartment after keying the door number on the keypad.

7449	DUOX/VDS DIGITAL DISPLAY W
7451	MDS DIGITAL DISPLAY W
7450	DUOX EXTRA DIGITAL DISPLAY W

ref.7449/7451

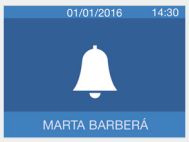
ref.7450

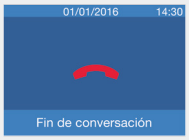
NEW

DUOX EXTRA DIGITAL DISPLAY W

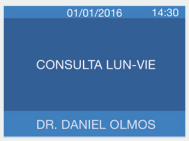
The EXTRA DIGITAL DISPLAY includes a 3.5" TFT with high luminance at outdoor environments, simplifying their use and increasing the performance of the door entry panels:

- Integrated OneToOne: Incorporates information about the call status: calling, in conversation, door open, or channel busy.
- Showing images: Up to 5 personalised images can be shown. Up to 10 user images can also be included.
- Showing messages: On the EXTRA display, personalised messages can be shown for each user or for the building.
- Presence Detector: When a visitor presses the outdoor panel, the DIGITAL EXTRA DISPLAY presence detector activates the TFT, inviting the user to place the call.
- Alphanumeric keypad and date and time indicator.
- Compatible with Wiegand-26 and Data Clock.
- Can be managed from the PC and features an RS-485 connection. Can be combined with panels of up to 8 buttons.
- It stores up to 999,999 addresses for the DUOX system.





OneToOne



Showing messages

Showing images

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

7447	DUOX/VDS/MDS DIGITAL KEYPAD W
7439	DUOX/VDS/MDS DIRECT KEYPAD W
7460	MDS DIGITISER V

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

ref.7439

ref.7447

INFORMATION MODULES AND ACCESSORIES

7448	ONE-TO-ONE MODULE V

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

ref.7448

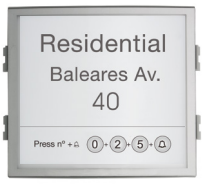
FERMAX one to one IT'S SIMPLE

Dimensions: (width) x (height) mm.

7445 CARDHOLDER W

7444 CARDHOLDER V

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



ref.7445

ref.7444

7443 METALLIC COMPLEMENT W

7442 METALLIC COMPLEMENT V

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

ref.7443

ref.7442

ACCESS CONTROL MODULES

For more information, see “Access Control” section.

7438 MEMOKEY W

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

ref.7438

7453 AC PLUS/MDS KEYPAD W

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

7457 AC PLUS DIRECT KEYPAD W

For access control combinations: keypad with proximity reader .

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

6936 FINGERPRINT READER W

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

ref.6936

7440 PROXIMITY READER V

Door opens when a proximity card is shown. Only authorized cards will activate the device. No physical contact is necessary. Capacity: Up to 400 cards (stand-alone).

ref.7440

23361 PROXIMITY CARD W/O MAGNETIC BAND

2336 PROXIMITY CARD WITH MAGNETIC BAND

4515 PROXIMITY KEYRING

ref.23361

ref.4515

SKYLINE PANEL

2 PUSH BUTTONS

7333 Frame 3V S4
7391 Video DUOX
7421 Video VDS
7376 2P 201V
8854 Flush box S4

DUOX / VDS

4 PUSH BUTTONS

7333 Frame 3V S4
7391 Video DUOX
7421 Video VDS
7372 4P 202V
8854 Flush box S4

DUOX / VDS

6 PUSH BUTTONS

7334 Frame 4V S5
7391 Video DUOX
7421 Video VDS
7372 4P 202V
7376 2P 201V
8855 Flush box S5

DUOX / VDS

8 PUSH BUTTONS

7334 Frame 4V S5
7391 Video DUOX
7421 Video VDS
7371 8P 204W
8855 Flush box S5

DUOX / VDS

10 PUSH BUTTONS

7335 Frame 5V S6
7391 Video DUOX
7421 Video VDS
7371 8P 204W
7376 2P 201V
8856 Flush box S6

DUOX / VDS

12 PUSH BUTTONS

7335 Frame 5V S6
7391 Video DUOX
7421 Video VDS
7371 8P 204W
7372 4P 202V
8856 Flush box S6

DUOX / VDS

14 PUSH BUTTONS

7336 Frame 6V S7
7391 Video DUOX
7421 Video VDS
7371 8P 204W
7372 4P 202V
7376 2P 201V
8857 Flush box S7

DUOX / VDS

16 PUSH BUTTONS

7336 Frame 6V S7
7391 Video DUOX
7421 Video VDS
7371 8P 204W (2units)
8857 Flush box S7

DUOX / VDS

18 PUSH BUTTONS

7337 Frame 7V S8
7391 Video DUOX
7421 Video VDS
7371 8P 204W (2 units)
7376 2P 201V
8858 Flush box S8

DUOX / VDS

20 PUSH BUTTONS

7337 Frame 7V S8
7391 Video DUOX
7421 Video VDS
7371 8P 204W (2 units)
7372 4P 202V
8858 Flush box S8

DUOX / VDS

22 PUSH BUTTONS

7338 Frame 8V S9
7391 Video DUOX
7421 Video VDS
7371 8P 204W (2 units)
7372 4P 202V
7376 2P 201V
8982 Flush box S9

DUOX / VDS

24 PUSH BUTTONS

7338 Frame 8V S9
7391 Video DUOX
7421 Video VDS
7371 8P 204W (3 units)
8982 Flush box S9

DUOX / VDS

26 PUSH BUTTONS

7335 Frame 5V S6 (2 units)
7391 Video DUOX
7421 Video VDS
7371 8P 204W (2 units)
7372 4P 202V (2 units)
7376 2P 201V
7442 Metallic module V
8856 Flush box S6 (2 units)
8829 Joining bolts
2541 Connection cable

DUOX / VDS

28 PUSH BUTTONS

7335 Frame 5V S6 (2 units)
7391 Video DUOX
7421 Video VDS
7371 8P 204W (3 units)
7372 4P 202V
7442 Metallic module V
8856 Flush box S6 (2 units)
8829 Joining bolts
2541 Connection cable

DUOX / VDS

30 PUSH BUTTONS

7335 Frame 5V S6 (2 units)
7391 Video DUOX
7421 Video VDS
7371 8P 204W (3 units)
7372 4P 202V
7376 2P 201V
8856 Flush box S6 (2 units)
8829 Joining bolts
2541 Connection cable

DUOX / VDS

32 PUSH BUTTONS

7335 Frame 5V S6 (2 units)
7391 Video DUOX
7421 Video VDS
7371 8P 204W (3 units)
7372 4P 202V (2 units)
8856 Flush box S6 (2 units)
8829 Joining bolts
2541 Connection cable

DUOX / VDS

34 PUSH BUTTONS

7336 Frame 6V S7 (2 units)
7391 Video DUOX
7421 Video VDS
7371 8P 204W (4 units)
7376 2P 201V
7442 Metallic module V
8857 Flush box S7 (2 units)
8829 Joining bolts
2541 Connection cable

DUOX / VDS

36 PUSH BUTTONS

7336 Frame 6V S7 (2 units)
7391 Video DUOX
7421 Video VDS
7371 8P 204W (4 units)
7372 4P 202V
7442 Metallic module V
8857 Flush box S7 (2 units)
8829 Joining bolts
2541 Connection cable

DUOX / VDS

38 PUSH BUTTONS

7336 Frame 6V S7 (2 units)
7391 Video DUOX
7421 Video VDS
7371 8P 204W (4 units)
7372 4P 202V
7376 2P 201V
8857 Flush box S7 (2 units)
8829 Joining bolts
2541 Connection cable

DUOX / VDS

40 PUSH BUTTONS

7336 Frame 6V S7 (2 units)
7391 Video DUOX
7421 Video VDS
7371 8P 204W (5 units)
8857 Flush box S7 (2 units)
8829 Joining bolts
2541 Connection cable

DUOX / VDS

EXTRA DIGITAL

7336 Frame 6V S7
7391 Audio-Vídeo Duox
7450 Duox digital Extra Diplay W
7457 DUOX Digital keypad
8857 Flush box S7

DUOX

Dimensions: (width) x (height) mm.

FERMAX CITYLINE PANEL

MONOBLOCK DESIGN

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

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

CUSTOMISED MANUFACTURE

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

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

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

VOICE-IMAGE WHERE BEFORE THERE WAS ONLY VOICE

CITYLINE maintains total compatibility with its predecessor (CITYLINE CLASSIC), ensuring its replacement and repositioning.

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

DURABILITY AND RELIABILITY OUTDOORS

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

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

1. PUSH BUTTON PANELS

HOW TO SELECT A PANEL

- Select the panel required according to the nº of apartments in the building. There are 5 series.
- The flush or surface box must be requested separately depending on the series.
- The amplifier may be DUOX, VDS or analogue (4+N). In case of DUOX and VDS amplifiers, extension call modules are required: 8-calls (ref.2008) or 16-calls (ref.2441).
- Colour camera as standard.

4 CVP201
ref.70058 DUOX

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

SERIES 1 Panel: 130x128 Flush box: 115x114x45

1 CP101
ref.70708 DUOX
ref.70707 VDS

1 CP201
ref.70008 DUOX
ref.70007 VDS

1 AP101
ref.70704 DUOX
ref.70703 VDS
ref.70701 4+N

1 AP201
ref.70004 DUOX
ref.70003 VDS
ref.70001 4+N

1 V
ref.7209

SERIES 2 Panel: 130x151 Flush box: 115x138x45

2 CP102
ref.70718 DUOX
ref.70717 VDS

2 CP202
ref.70018 DUOX
ref.70017 VDS

2 AP102
ref.70714 DUOX
ref.70713 VDS
ref.70711 4+N

2 AP202
ref.70014 DUOX
ref.70013 VDS
ref.70011 4+N

SERIES 3 Panel: 130x175 Flush box: 115x162x45

3 CP103
ref.70728 DUOX
ref.70727 VDS

3 CP203
ref.70028 DUOX
ref.70027 VDS

3 AP103
ref.70724 DUOX
ref.70723 VDS
ref.70721 4+N

3 AP203
ref.70024 DUOX
ref.70023 VDS
ref.70021 4+N

SERIES 4 Panel: 130x199 Flush box: 115x185x45

4CP104
ref.70748 DUOX
ref.70747 VDS

4 CP204
ref.70048 DUOX
ref.70047 VDS

4 CVP101
ref.70758 DUOX
ref.70757 VDS

4 CVP201
ref.70058 DUOX
ref.70057 VDS

4AP104
ref.70744 DUOX
ref.70743 VDS
ref.70741 4+N

4 AP204
ref.70044 DUOX
ref.70043 VDS
ref.70041 4+N

4 AVP101
ref.70754 DUOX
ref.70753 VDS
ref.70751 4+N

4 AVP201
ref.70054 DUOX
ref.70053 VDS
ref.70051 4+N

SERIES 5 Panel: 130x246 Flush box: 115x233x45

5 CP105
ref.70828 DUOX
ref.70827 VDS

5 CP205
ref.70128 DUOX
ref.70127 VDS

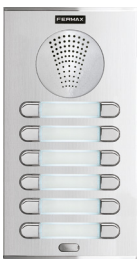
5 CP106
ref.70838 DUOX
ref.70837 VDS

5 CP206
ref.70138 DUOX
ref.70137 VDS

5 AP105
ref.70824 DUOX
ref.70823 VDS
ref.70821 4+N

5 AP205
ref.70124 DUOX
ref.70123 VDS
ref.70121 4+N

5 AP106
ref.70834 DUOX
ref.70833 VDS
ref.70831 4+N



5 AP206
ref.70134 DUOX
ref.70133 VDS
ref.70131 4+N

Dimensions: (width) x (height) mm.

FERMAX CITYLINE DIGITAL PANEL

DIRECT

DIGITAL

EXTRA DIGITAL (DUOX)

cityline

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

INTUITIVE AND EASY USE

There are 2 panel models:

- DIRECT panels: They do not include a display and need a DIRECTORY to write the name of the residents and their allocated door codes. To call the apartment, enter the door code via keypad and press 🔔.

- DIGITAL panels: Select the tenant/door from the DISPLAY and press the bell key directly.

KEYPAD WITH MAXIMUM RESISTANCE

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

LCD DISPLAY

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

The keys ◁ ▷ allow to browse through the user and programming menu.

Once the door code is entered, press 🔔 to call the house.

DIGITAL EXTRA DISPLAY

DIGITAL EXTRA DISPLAY is available in DUOX technology, including a 3.5" TFT with high luminance at outdoor environments, simplifying their use and increasing the performance of the door entry panels.

COMPACT AUDIO-VIDEO MODULE

The MODULE has a powerful built-in high-performance (2W) AMPLIFIER with volume control to set the conversation level. A synthesized message - "The door is open. Please, close the door behind you"- is emitted while the door is opening. Opening time is adjustable from the keypad.

COLOUR CAMERA

Includes a highly sensitive CCD CAMERA with 3.7mm lens. Additional night vision lighting with 6 LEDS. A PAN&TILT system allows for the adjustment of the lens ±10º, according to the panel position.

ACCESS CONTROL KEYPAD

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

CITYLINE DIGITAL PANEL

cityline

1. DIGITAL PANEL

The DIGITAL panels include a KEYPAD and DISPLAY.
The keypad has access control function (350 codes).

COLOUR VIDEO

7364	DUOX CITY DIGITAL VIDEO PANEL S7
7299	VDS CITY DIGITAL VIDEO PANEL S7
7297	MDS CITY DIGITAL VIDEO PANEL S7
7387	DUOX CITY EXTRA DIGITAL VIDEO PANEL S7

NEW

Detailed information about the EXTRA DUOX DISPLAY at SKYLINE SECTION.

ref.7387

AUDIO

ref.7310

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

AUDIO

7384	DUOX CITY DIGITAL AUDIO PANEL S7
7303	VDS CITY DIGITAL AUDIO PANEL S7
7301	MDS CITY DIGITAL AUDIO PANEL S7

ACCESSORIES

7310	DIRECTORY PANEL S7
8857	FLUSH BOX S7
8829	JOINING BOLTS SET

2. DIRECT PANEL

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

COLOUR VIDEO

7363	DUOX CITY DIRECT VIDEO PANEL S5
7305	VDS CITY DIRECT VIDEO PANEL S5
7287	MDS CITY DIRECT VIDEO PANEL S5

ACCESSORIES

7309	DIRECTORY PANEL S5
8855	FLUSH BOX S5
7318	DIRECTORY PANEL S6
8856	FLUSH BOX S6
8829	JOINING BOLTS SET

ref.7363

ref.7309

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

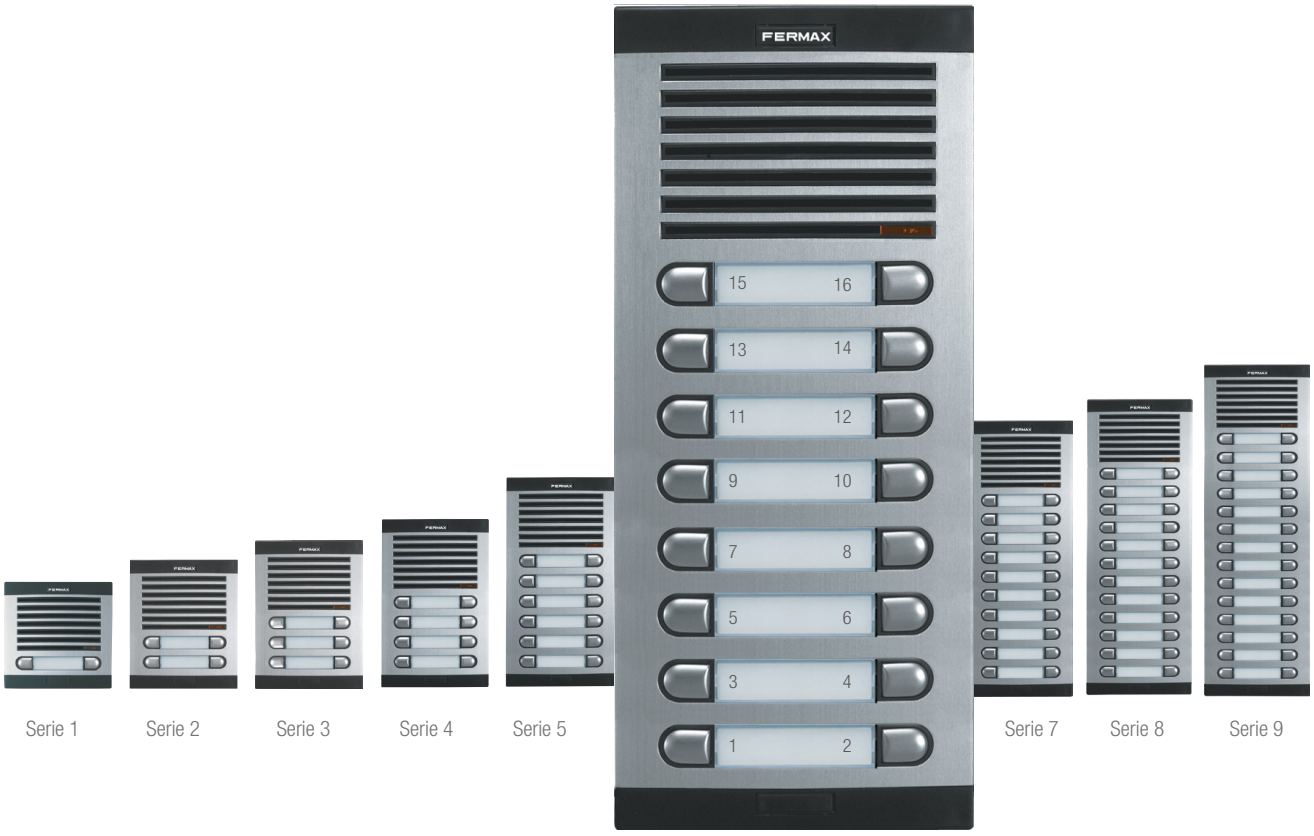
ref.7287

ref.7318

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

Dimensions: (width) x (height) mm.

FERMAX 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 7 continuous profile series, all of them the same width but with different heights and button capacities.

FEATURES

- The **PANELS** are made of highly weather-resistant anodised aluminium. A cellular rubber waterproof seal, ensures perfect fitting of the panel in the wall, preventing water from getting in.
- Once installed, the tightening **SCREWS** are completely hidden by protection covers at the top and bottom. The screws are Allen type.

- The metal **PUSH BUTTONS** have a rounded shape, to keep with the curved profile of the panel. They can be double or single. The amplifier emits a confirmation sound when the button is pressed.

- The chrome finished buttons are protected against the weather by a thick chrome plating.

- The push buttons include a cardholder to place the name/ number of the resident. By pressing the pushbutton, the cardholder illuminates making easier to find the names even in complete darkness.

- The **AMPLIFIER** is manufactured in SMD (Surface Mounting Device) and subject to a process of tropicalisation to withstand the most adverse weather conditions. It has: front button for lighting of card-holders, volume controls in both directions for optimum sound level free from feedback, call confirmation sound, sound synth in different languages, etc.

ACCESSORIES

ref.8820

ref.2440

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

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

8820 PANORAMIC CARDHOLDER MODULE

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

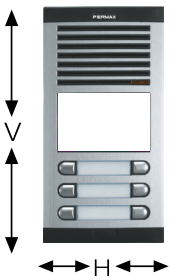
2440 MDS CITY DIGITISER MODULE

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

CITYLINE CLASSIC PANEL

HOW TO SELECT A PANEL

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



5AVP203
ref.8637

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

SERIES 1

Panel: 130x128
Flush box:115x114x45

1 AP 101
ref.8500

1 AP 201
ref.8501

SERIES 2

Panel: 130x151
Flush box: 115x138x45

2 AP 102
ref.8534

2 AP 202
ref.8532

SERIES 3

Panel: 130x175
Flush box: 115x162x45

3 AP 103
ref.8560

3 AP 203
ref.8562

SERIES 4

Panel: 130x199 Flush box: 115x185x45

4 AP 104
ref.8593

4 AVP 101
ref.8605

4 AP 204
ref.8591

SERIES 5

Panel: 130x246 Flush box: 115x233x45

5 AP 105
ref.8622

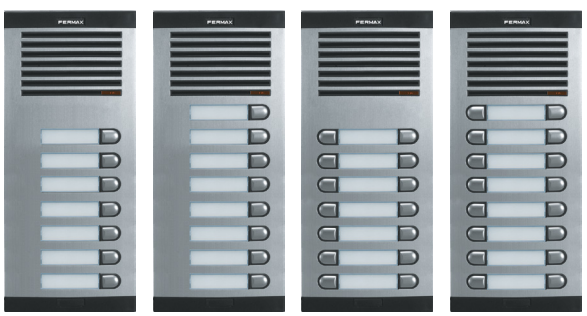
5 AP 106
ref.8623

5 AP 205
ref.8620

5 AP 206
ref.8621

SERIES 6

Panel: 130x294 Flush box: 115x280x45



6 AP 107
ref.8662

6 AP 108
ref.8663

6 AP 207
ref.8660

6 AP 208
ref.8661

SERIES 7

Panel: 130x341 Flush box: 115x328x45

7 AP 109
ref.8702

7 AP 110
ref.8703

7 AP 209
ref.8700

7 AP 210
ref.8701

Dimensions: (width) x (height) mm.

FERMAX MARINE PANEL

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

FEATURES

- Anti-vandal PUSH BUTTONS. The panels are made of stainless steel and with anti-lock system. Resist any impact. Cardholders available to customize each apartment.
- The panel is attached to the flush box by means of vandal-proof SAFETY SCREWS made of stainless steel. It is attached to the wall by means of self-expanding screws and plugs, to avoid warping.
- A cellular rubber WATERPROOF SEAL ensures perfect fitting of the panel onto the wall, preventing water from getting in.
- Both, the CARDSLOTS with push buttons and the display of the camera, are made of 6mm thick polycarbonate, resistant to high temperatures and to vandal actions.
- The SMD (Surface Mounting Device) AMPLIFIER, which has been subjected to a process of tropicalisation, is designed to withstand the most adverse weather conditions. A synthesized message - "The door is open. Please, close the door behind you"- is emitted while the door is opening. Available in 32 languages.
- The CAMERA (protected by a 6mm-thick polycarbonate) is equipped with lighting for low-light conditions. It has a PAN&TILT adjustment system to move the camera ±10° in any direction. It incorporates a 3.6mm wide angle lens.

1. PANEL WITH PUSH BUTTONS

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

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

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

4+N MARINE AMPLIFIER COMBINATIONS:

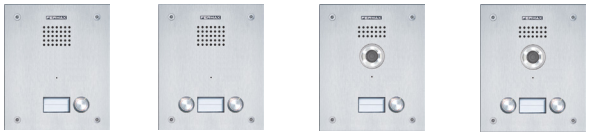
	Audio	Colour video
4+N	ref. = xxxx1	ref. = xxxx6

MARINE PANEL

FLUSH OR SURFACE BOX must be requested separately.

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

SERIES ST1 Panel: 150x180 Flush box: 130x160x55

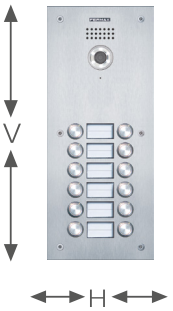


1 AP101
ref.54333 VDS
ref.54334 DUOX

1 AP201
ref.54343 VDS
ref.54344 DUOX

1 CP101
ref.54337 VDS
ref.54338 DUOX

1 CP201
ref.54347 VDS
ref.54348 DUOX



2 CP206
ref.54457

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

SERIE ST2 Panel: 150x240 Flush box: 130x220x55

2 AP102
ref.54353 VDS
ref.54354 DUOX

2 AP103
ref.54363 VDS
ref.54364 DUOX

2 AP202
ref.54373 VDS
ref.54374 DUOX

2 AP203
ref.54383 VDS
ref.54384 DUOX

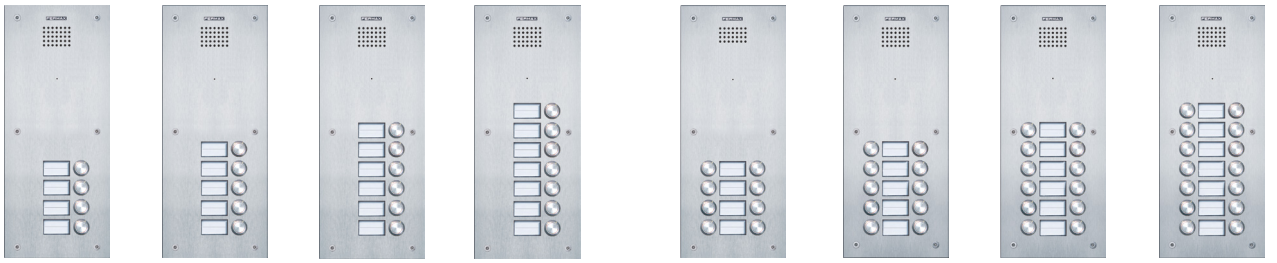
2 CP102
ref.54357 VDS
ref.54358 DUOX

2 CP103
ref.54367 VDS
ref.54368 DUOX

2 CP202
ref.54377 VDS
ref.54378 DUOX

2 CP203
ref.54387 VDS
ref.54388 DUOX

SERIES ST3 Panel: 150x360 Flush box: 130x340x55



3 AP104
ref.54393 VDS
ref.54394 DUOX

3 AP105
ref.54403 VDS
ref.54404 DUOX

3 AP106
ref.54413 VDS
ref.54414 DUOX

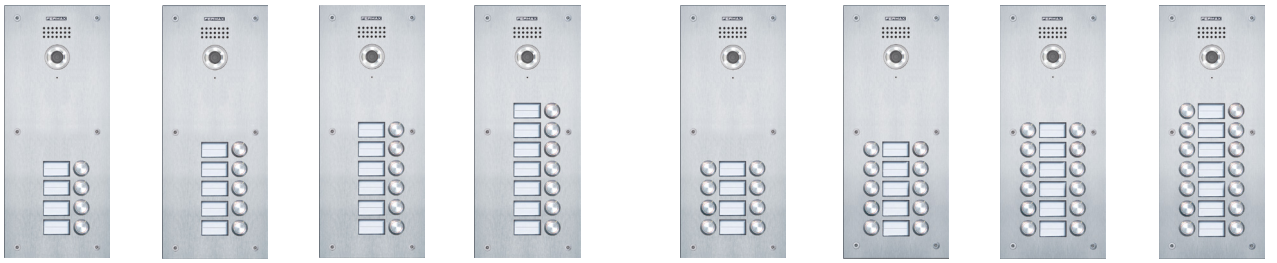
3 AP107
ref.54423 VDS
ref.54424 DUOX

3 AP204
ref.54433 VDS
ref.54334 DUOX

3 AP205
ref.54443 VDS
ref.54444 DUOX

3 AP206
ref.54453 VDS
ref.54454 DUOX

3 AP207
ref.54463 VDS
ref.54464 DUOX



3 CP104
ref.54397 VDS
ref.54398 DUOX

3 CP105
ref.54407 VDS
ref.54408 DUOX

3 CP106
ref.54417 VDS
ref.54418 DUOX

3 CP107
ref.54427 VDS
ref.54428 DUOX

3 CP204
ref.54437 VDS
ref.54438 DUOX

3 CP205
ref.54447 VDS
ref.54448 DUOX

3 CP206
ref.54457 VDS
ref.54458 DUOX

3 CP207
ref.54467 VDS
ref.54468 DUOX

Dimensions: (width) x (height) mm.

FERMAX MARINE PANEL

2. DIGITAL PANELS

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

- A DIRECTORY DISPLAY allows for the searching of 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.
- BACKLIGHTING illuminates the numbers in poor light conditions.
- Through the keypad it is possible to activate the installation's electric lock. The management of codes/users numbers depends on the model panel: 350 codes (VDS) and 1.020 codes (DIGITAL MDS with Central Unit ref.2405).

Extra

COLOUR VIDEO

Flush or surface box must be requested separately.

5483	DUOX DIGITAL VIDEO PANEL ST3
5468	VDS DIGITAL VIDEO PANEL ST3
5470	MDS DIGITAL VIDEO PANEL ST3
5526	DUOX EXTRA DIGITAL VIDEO PANEL ST3

NEW

Detailed information about the EXTRA DUOX DISPLAY at SKYLINE SECTION.

ref.5483
ref.5468 / ref.5470

ref.5526

ref.5471
ST3:
150x360.

AUDIO

5523	DUOX DIGITAL AUDIO PANEL ST3
5524	DUOX EXTRA DIGITAL AUDIO PANEL ST3
5465	VDS DIGITAL AUDIO PANEL ST3
5467	MDS DIGITAL AUDIO PANEL ST3

ACCESSORIES

5471	DIRECTORY PANEL ST3
4643	MARINE FLUSH BOX ST3
4647	MARINE SURFACE BOX ST3
2289	JOINING BOLTS SET

ref.4699

ref.5472

ACCESS CONTROL READERS

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

4699	MEMOKEY MARINE READER
4696	AC PLUS/MDS MARINE KEYPAD
5472	MARINE PROXIMITY READER
5482	MARINE FINGERPRINT READER

ref.5482

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

MARINE PANEL

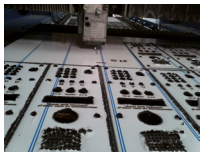
3. SPECIAL PANELS

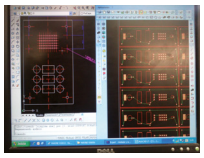
FERMAX has a laser-cut machining line for stainless steel panels. This process allows us complete flexibility to make the Marine panel required, with optimum delivery time for the customised panel.

3172 MARINE SPECIAL PANEL

The following variations may be ordered:

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





Manufacturing process of Marine panels

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

FLUSH MOUNTED
SURFACE
SPECIALS

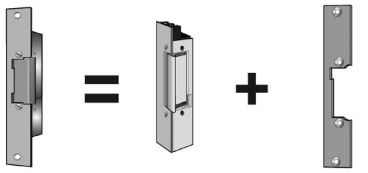
DOOR LOCK RELEASE

FERMAX LOCK RELEASE

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

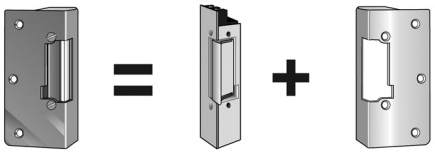
SERIES 2001

FLUSH MOUNTED



FLUSH-MOUNTED LOCK RELEASE | ELECTRIC MECHANISM | SHIELD

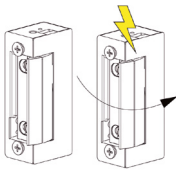
SURFACE



SURFACE LOCK RELEASE | ELECTRIC MECHANISM | CASE

OPERATING MODES

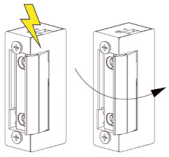
NORMAL OPERATION **- N**



Allow door opening while the lock is powered.

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

INVERTED OPERATION - **N-500**



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

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

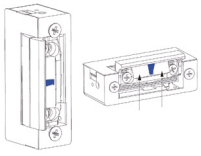
AUTOMATIC OPERATION - **A**

Ab (Sliding automatic) and Aa (Invisible automatic)

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

A Automatic operation.

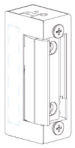
A	12 Vac activation
A-412	12 Vdc activation
A-424	24 Vdc activation



Ab **Sliding** automatic operation.

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

Ab	12 Vac activation
Ab-412	12 Vdc activation

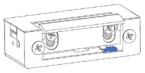


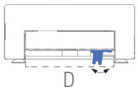
Aa **Invisible** automatic operation.

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

Aa	12 Vac activation
Aa-412	12 Vdc activation

ADDITIONAL OPERATION



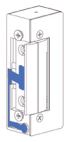


D

- Unlocking level – D

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

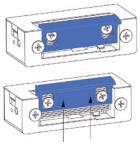
ND Normal operation with release.
AD Automatic operation with release



CTC

- Built-in microswitch - CTC.

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



MAX

- Adjustable latch bolt - MAX

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

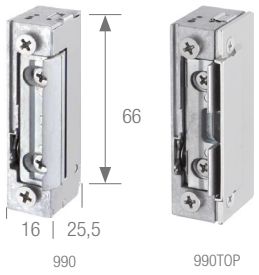
For more information about door locks, see current “Lock release catalogue”.

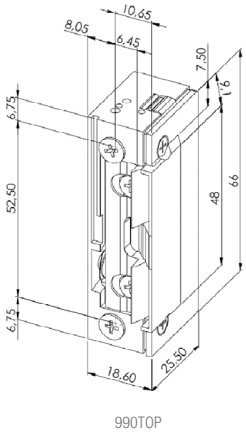
LOCK RELEASE

1. FLUSH-MOUNTED LOCK RELEASE

Universal

990 SERIES

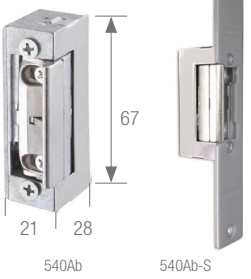


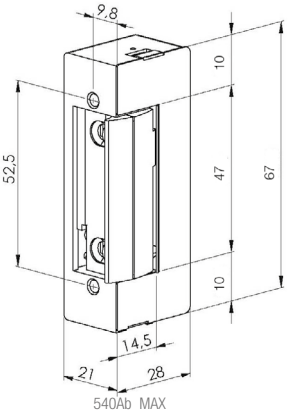


990 Series consumption	
N	12Vac: 250mA 12Vdc: 280mA 24Vac: 500mA 24Vdc: 560mA
N-512	12Vdc: 175mA
MAX	+2mm

Standard

540 SERIES





540 Series consumption	
N,A	980mA
N-412	260mA
N-512	200mA
A-424	180mA
MAX	+3mm

NORMAL OPERATION - **N**

AUTOMATIC OPERATION **- A**

Universal

12Vac/dc		12Vac/dc	
67501	UNIVERSAL LOCK RELEASE 990N-P22 MAX	67521	LOCK RELEASE 990A-P22 MAX
67511	UNIVERSAL LOCK RELEASE 990ND-P22 MAX	67531	LOCK RELEASE 990AD-P22 MAX
6750	MECHANISM 990N MAX	6752	MECHANISM 990A MAX
1813	MECHANISM 990ND MAX	6753	MECHANISM 990AD MAX
1814	MECHANISM 990ND TOPMAX		
67500	MECHANISM 990N CTC MAX		

Standard

12Vac		12Vac	
30711	LOCK RELEASE 540N-S MAX	30691	LOCK RELEASE 540A-S MAX
28341	LOCK RELEASE 540ND-S MAX	1821	LOCK RELEASE 540Ab-S MAX
1777	MECHANISM 540N MAX	28151	LOCK RELEASE 540Aa-S MAX
1799	MECHANISM 540ND MAX	64551	LOCK RELEASE 540AbD-S MAX
		1812	MECHANISM 540Ab MAX
		1780	MECHANISM 540Aa MAX
		1811	MECHANISM 540AbD MAX
		1781	MECHANISM 540AaD MAX
12Vdc		12Vdc	
30701	LOCK RELEASE 540N-412-S MAX	1820	LOCK RELEASE 540Ab-412-S MAX
1782	MECHANISM 540N-412 MAX	1810	MECHANISM 540Ab-412 MAX
		1728	MECHANISM 540Aa-412 MAX
		1727	MECHANISM 540aD-412 MAX

INVERTED OPERATION - **N-500** (12 Vdc)

Univ.

6780	MECHANISM 990N-512 MAX
67800	MECHANISM 990N-512 CTC MAX

Stand.

64801	LOCK RELEASE 540N-512-S MAX
1794	MECHANISM 540N-512 MAX

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

2. SURFACE LOCK RELEASE

2001-2003 SERIES

Reversible and asymmetric.

2923	LOCK RELEASE N-2001 CHROME
2917	LOCK RELEASE A-2001 CHROME
2940	LOCK RELEASE N-2003 ALUMINIUM ANODIZED
2942	LOCK RELEASE A-2003 ALUMINIUM ANODIZED

2001 SERIES

2003 SERIES

2000 Series consumption		
N	12Vac	980mA

6000 Series consumption		
N,A	12Vac	980mA

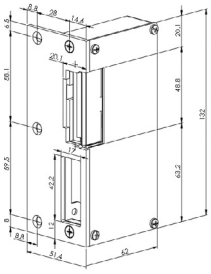
6000 SERIES

For doors with bolt locks. Reversible. Right-hand and left-hand opening. 12Vac activation.

3004	LOCK RELEASE 6000N GREY
3005	LOCK RELEASE 6000A GREY
3006	LOCK RELEASE 6000AD GREY
3021	MECHANISM 660N

6000 SERIES

6000A DIN left

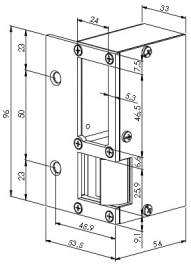


480 SERIES

For deadbolt entry doors. Reversible, symmetrical.
With bolt up to 20mm. 12Vac activation.

3030	LOCK RELEASE 480N
3031	LOCK RELEASE 480A

480 SERIES

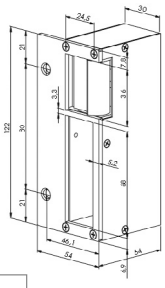


490 SERIES

For deadbolt entry doors. Reversible, symmetrical.
With bolt up to 20mm. 12Vac activation.

3034	LOCK RELEASE 490N
3035	LOCK RELEASE 490A

490 SERIES

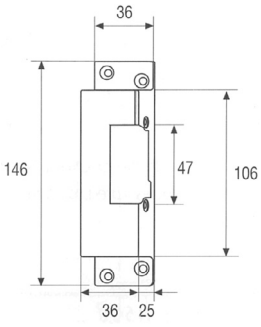


480-490 Series consumption		
N,A	12Vac	980mA

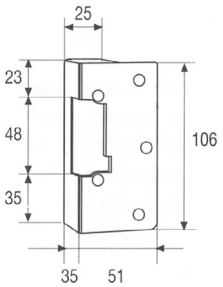
SURFACE LOCK RELEASE ACCESSORIES

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

Compatible with 540 and 990 mechanism series.



2001-2006



2007

For more information about door locks, see current “Lock release catalogue”.

LOCK RELEASE

3. SPECIAL LOCK RELEASE

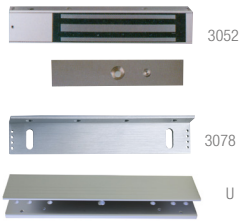
ELECTROMAGNETICS

Inverted operating. 12/24Vdc. For security installations.

3050	FLUSH-MOUNTED	300KG
30503	FLUSH-MOUNTED	750KG (swing door)
3052	SURFACE	300KG

The lock release can be installed in the wall with a bracket.

3078	BRACKET (for ref.3052)
3079	DOUBLE Z BRACKET
2837	U BRACKET (for ref.3052)



ELECTROMAGNETIC consumption	
12Vdc	500mA
24Vdc	250mA

C GLASS / CII GLASS SERIES

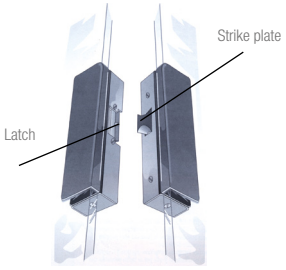
For installation on double-plate glass doors of up to 12mm. Inverted functioning or MAX version not allowed.

2998	GLASS CAD CHROMED LOCK RELEASE

One sheet. Articulated flush-mounted lock release for one plate glass doors (of up to 12mm). MAX version not allowed.

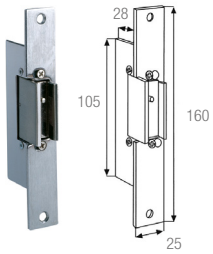
3098	GLASS CIIN-512-SX LOCK RELEASE

C SERIES



C Series consumption		
N,A	12Vac	980mA

CII SERIES



CII Series consumption		
N-512	12Vdc	150mA

ELECTRIC RIM LOCK

Electric lock for more security. Automatic operation.

2878	DOUBLE KEY 961 ELECTRIC RIM LOCK
1786	700N-512/524 ELECTRIC DROP BOLT

960 SERIES

960 Series consumption	
12Vac/Vdc	850mA/1,7A

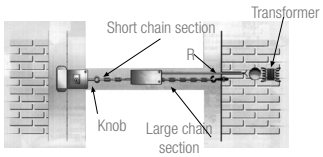
700 SERIES

8000 SERIES / P SERIES (ANTIPANIC)

8000 series with chain for opening of doors with surface locks with knob. P series antipanic surface locks with handle to fit doors with panic bars.

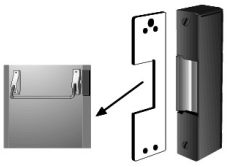
2984	8000N LOCK RELEASE WITH CHAIN

8000 SERIES (with chain)



8000 Series consumption		
N	12Vac	980mA

P SERIES (antipanic)



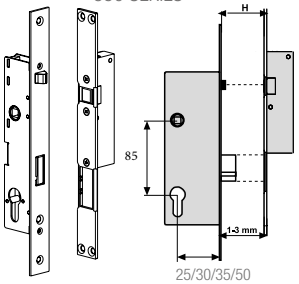
P Series consumption		
N	12Vac	980mA

AUTOMATIC LOCK

850 Series. Automatically closes the lock bolt without having to use the key and allows remote opening from the residence.

3101	850/50 A AUTOMATIC LOCK
	For wood and iron doors.
3102	850/25 A AUTOMATIC LOCK
	For aluminium doors.

850 SERIES



850 Series consumption	
12Vdc	1.350mA
12Vac	990mA

4. ACCESSORIES

FLUSH-MOUNTED LOCK RELEASE (SHIELDS)

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

FOR ALL TYPE OF LOCK RELEASE

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

F1
F1

SMILE MONITOR
VEO MONITOR
LOFT MONITOR
iLOFT MONITOR
iLOFT TELEPHONE
LOFT TELEPHONE
CITYMAX TELEPHONE
DESKTOP SUPPORT
UNIVERSAL FRAMES

TERMINALS

INDOOR

smiLe
by FERMAX

7" Version

High speed response | Simpler and better configurator | Reduced consumption

THE NEW GENERATION OF OUR MOST AWARDED MONITOR

3,5" surface version

Intuitive screen

Invisible additional push buttons / Additional functions

"Do not disturb" function activated

7" version with decorative frame

AR

SMILE hands free monitor with 7” or 3,5” TFT COLOUR screen. It is distinguished by its resistant cover with ultraviolet protection, its digital audio quality, its capacitive keypad and its OSD screen menu.

The monitor **can be installed surface or flush-mounted.**

PERFORMANCE

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

FUNCTIONS (VDS)

- Colour TFT screen, available in 7” and 3,5”.
- Activates/deactivates the communication with the outdoor panel.
- Door opening.
- Access to MENU by pressing during 5 sec. A quick keystroke (1 sec.) activates the invisible keypad to access the additional functions.
- Activates the panel camera manually.
- F1-F2: Activates additional functions: stair light switching, 2nd door opening, etc.
- Call status information is displayed on screen.
- Allows for the installation of a CCTV camera and view the image via the monitor.
- VDS technology.

INDOOR

CHOOSE YOUR COLOUR

The SMILE monitor is available in different colours with 7” or 3,5” screen.

- White
- Absolute white
- Silver
- Black

ADDITIONAL KEYPAD

Smile includes an additional keypad which remains invisible until it is activated allowing for the programming of it as direct accesses to the functions you want to establish as “favorite”.

INTUITIVE OSD MENU

The OSD menu allows for the browsing through the screen by means of intuitive interpretation of the graphic icons, achieving the maximum performance from the monitor features.

ACCESSORIES for flush-mounted

6552	7” Smile white decorative frame	
6559	7” Smile silver decorative frame	
6560	7” Smile black decorative frame	

7” Dimensions: 209x196x4.

6547	3,5” Smile white decorative frame	
6570	3,5” Smile silver decorative frame	
6571	3,5” Smile black decorative frame	

3,5” Dimensions: 127x196x4.

6551	7” Flush box

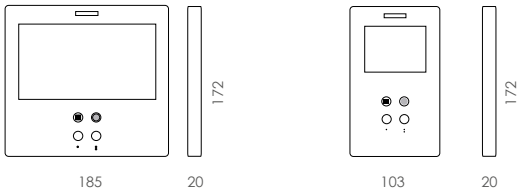
Dimensions: 198x186x44

6546	3,5” Flush box

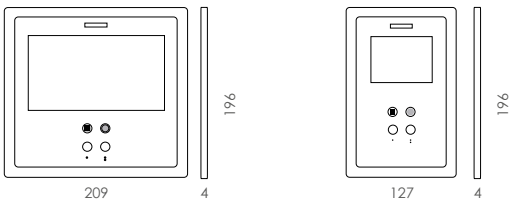
Dimensions: 112x186x44

DIMENSIONS / INSTALLATION

Surface — 20mm protrusion from the wall once fixed.



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



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

NEW

VEO

by FERMAX

INDOOR

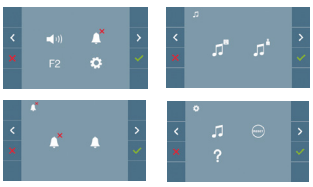
AN ESSENTIAL CONCEPT, FUNCTIONAL AND EASY-TO-USE.
JUST ESSENTIAL

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

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

DUOX

Incorporates DUOX (Fermax fully digital system in 2-wire non polarised) or VDS technology.



AR

Made of high-impact ABS plastic. Texturised finish for easy cleaning and ultraviolet protection to get more resistance to the light.
It has many attachment points for wall mounting, as well as coiled cord with telephone plug connectors.
Its unique handset design incorporating a magnet enables the user to put it back into position correctly.
· Extra slim design.
· Surface installation.

PERFORMANCE

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

FUNCTIONS (VDS)

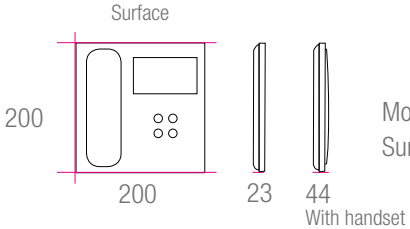
- Call to guard and door opener button.
- Autostart of main camera.

F1-F2 - Button to activate additional functions: stair light switching, 2nd door opening, panic call, etc.
- Door bell, for direct connection to house call push button .
- Selectable call tones.
- Call volume control: high, medium, disconnected.
- Brightness, contrast and colour control.

ACCESSORIES

9410 VEO MONITOR DESKTOP SUPPORT

DIMENSIONS / INSTALLATION



Monitor: 200 x 200 x 44.
Surface installation.

DUOX

NEW

FUNCTIONS

- 4,3" COLOUR TFT screen.
- Call to guard and door opener button.
- Autostart of main camera. If there is more than one panel, you can choose in which one you want to trigger the camera.

F1 - Button to activate 1 additional function: stair lighting, 2nd door opening, panic call, etc.

MENU - Menu Digital menu to configure and adjust the internal parameters:
- Switch off ringtones mode. "Do not disturb" function.
- Selection of call melodies and volume.

F2
- Activation of a 2nd additional function.
- Brightness/Contrast/Colour adjustment.
- **QR code:** access to

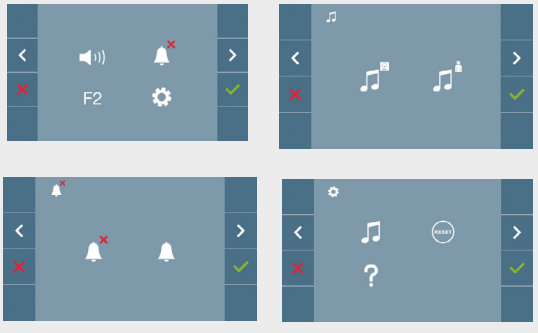
www.duoxbyfermax.com that contains manuals, complements, catalogues, etc that Duox technology offers you.

OSD MENU

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

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

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



INDOOR

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

LOFT
by FERMAX

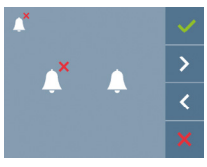
COMMUNICATION. DESIGN. HOME

NEW

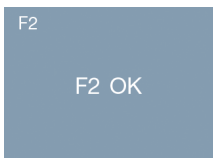
DUOX

DUOX LOFT MONITORS

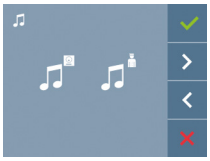
The LOFT DUOX monitor maintains the same aesthetic as its version in other technologies, but provides other much more advanced features, thanks to its built-in full digital technology.



"Do not disturb" function



2nd additional function.



Volume and melody selection

QR code with DUOX information

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

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

Surface installation.

PERFORMANCE

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

FUNCTIONS (VDS and 4+N)

- Available in B/W, COLOUR and with memories.
- Call the concierge and door opener button.
- Autostart of main camera.

F1-F2 - Button to activate additional functions: stair lighting, 2nd door opening, panic call, etc.

- Door bell, for direct connection to house call push button (VDS version).
- Selectable ringtones.
- Call volume control: high, medium, disconnected.
- Brightness, contrast and colour control.

ACCESSORIES

3386	Decorative frame
	Dimensions: 250x240
3441	Loft handset with induction loop

Adapted for people with a hearing disability.

DUOX

NEW

FUNCTIONS

- COLOUR TFT screen.
- Call to guard and door opener button.
- Autostart of main camera. If there is more than one panel, you can choose in which one you want to trigger the camera.
- **F1:** Button to activate 1 additional function: stair lighting, 2nd door opening, panic call, etc.
- **MENU:** Digital menu to configure and adjust the internal parameters:
  - Switch off ringtones mode. “Do not disturb” function.
  - Selection of call melodies and volume.
  - **F2:** Activation of a 2nd additional function.
  - Brightness/Contrast/Colour adjustment.
- **QR code:** access to www.duoxbyfermax.com that contains manuals, complements, catalogues, etc that Duox technology offers you.

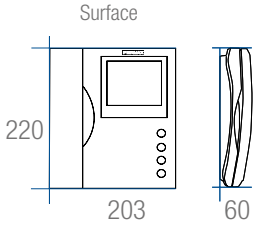
OSD MENU

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

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

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

DIMENSIONS / INSTALLATION



Monitor: 203x220x60.
Surface installation.

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

iLOFT by FERMAX

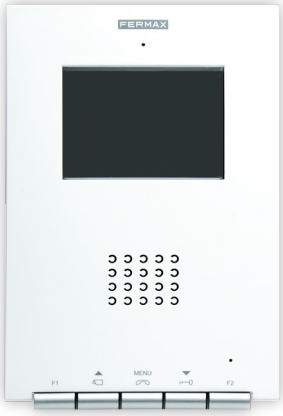
ESSENTIAL DESIGN. PEACE AT HOME.

iLoft. Flush-mounted installation

iLOFT / iLOFT PURE

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

iLoft Pure



NEW

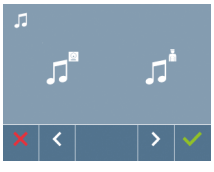
DUOX

Much more advanced features thanks to the full digital technology incorporated.

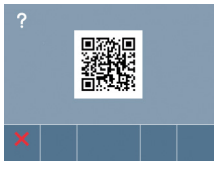
Available in flush-mounted (iLOFT DUOX) and surface (iLOFT PURE DUOX) installation (Consult availability).

"Do not disturb" function

2nd additional function



Volume and melody selection



QR code with DUOX information

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

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

Flush-mounted (iLoft monitor) or surface (iLoft Pure monitor) installation.

PERFORMANCE

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

PROGRAMMING

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

ACCESSORIES

iLOFT

5631 DECORATIVE FRAME

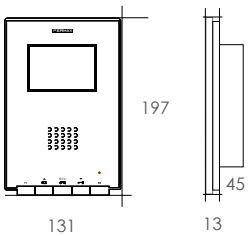
Made of beveled crystal.
Only for flush-mounted monitor.
Dimensions: 189x256x6

FRONTAL COLOUR COVERS (only iLOFT)

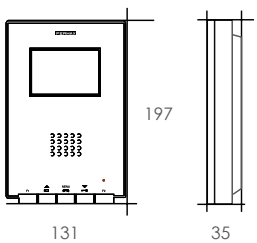
5635	GOLD	
5634	BLACK	
5633	SILVER	

DIMENSIONS / INSTALLATION

iLOFT Flush-mounted



iLOFT PURE Surface



13 mm protrusion from the wall once fixed.

FERMAX flush box: 108x158x45.
Universal flush box: 114x174x50.

VDS FUNCTIONS

- COLOUR TFT screen.
- Activate/deactivate the communication with the door entry panel.
- Call to guard and door opener button.
- Autostart of main camera.
- Door bell, for direct connection to house call push button.

F1-F2 - Button to activate additional functions: stair light switching, 2nd door opening, panic call, etc.

MENU - OSD menu for adjustment/regulation of internal parameters.

- Call volume control: high, medium and disconnected.
- Ringtone selection.
- Brightness/Contrast/Colour adjustment

DUOX

NEW

FUNCTIONS

- COLOUR TFT screen.
- Call to guard and door opener button.
- Autostart of main camera. If there is more than one panel, you can choose in which one you want to trigger the camera.
- **F1:** Button to activate 1 additional function: stair lighting, 2nd door opening, panic call, etc.
- **MENU:** Digital menu to configure and adjust the internal parameters:
  - Switch off ringtones mode. “Do not disturb” function.
  - Selection of call melodies and volume.
  - **F2:** Activation of a 2nd additional function.
  - Brightness/Contrast/Colour adjustment.
  - **QR code:** access to www.duoxbyfermax.com that contains manuals, complements, catalogues, etc that Duox technology offers you.

OSD MENU

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

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

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

INDOOR

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

INDOOR

iLOFT TELEPHONE

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

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

Surface installation.

FUNCTIONS

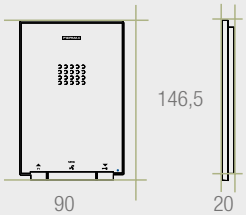
- Button to activate/deactivate the communication with the door entry panel
- Call to guard and door opener button.
- **F1** - Button to activate additional functions: stair lighting , 2nd door opening, panic call…
- 5 selectable or ringtones.
- Sequential control volume.
- "Do not disturb" function: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

PERFORMANCE

When receiving a call, press the button to establish a hands-free communication with the outdoor panel.

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

DIMENSIONS / INSTALLATION



Telephone: 90x146,5x20.
Surface installation.

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

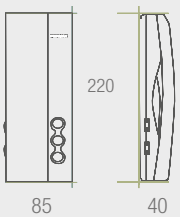
LOFT TELEPHONE

Made of high-impact ABS plastic with a texturised finish for easy cleaning and ultraviolet protection. It has many attachment points for wall mounting, as well as coiled cord with telephone plug connectors.
A magnet located in the handset allows it to hang it safely.

PERFORMANCE

When a call is received it is possible to establish a conversation with the outdoor panel. Push the corresponding button ⊢0 to open the door.

DIMENSIONS



Telephone: 85x220x40.

FUNCTIONS AND MODELS

The EXTRA version includes the following features:

⊢0 - Call to guard and door opener button.

F1-F2 - Button to activate additional functions:
stair lighting, 2nd door opening, panic call, etc.

- 2 selectable ringtones.
- Volume control: high, medium, disconnected.

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

ACCESSORIES

3380	DECORATIVE FRAME An aesthetic complement. Useful in replacement applications or replacing from older equipment. Dimensions: 200x240.
3441	LOFT HANDSET WITH INDUCTION LOOP Adapted for people with auditive disabilities.
3749	DESKTOP SUPPORT

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

Citymax Basic

Citymax Palace

Citymax Universal

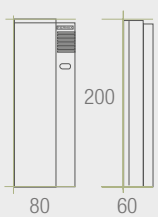
CITYMAX TELEPHONE

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

PERFORMANCE

When a call is received it is possible to establish a conversation with the outdoor panel. Push the corresponding button ⊓0 to open the door.

DIMENSIONS



Telephone: 80x200x60.

AVAILABLE MODELS

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

PALACE: includes intercom pushbuttons. Depending on the model, telephone colour varies:
- BASIC: white finish.
- UNIVERSAL AND PALACE: pearl finish.

ACCESSORIES (optional)

2 decorative frames in pearl finish, available for models UNIVERSAL and PALACE, useful in replacement applications or changing older equipment.

2127	DECORATIVE FRAME
	Dimensions: 120x240
3749	DESKTOP SUPPORT

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

INDOOR

NEW

DESKTOP SUPPORT

Elegant and specially functional.

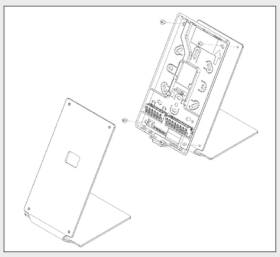
Fermax desktop supports allow for a call from the entrance phone to be answered from the office desktop.

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

REFERENCES

6566	SMILE MONITOR DESKTOP SUPPORT (For 3,5" and 7" Smile monitors).
5637	iLOFT PURE MONITOR DESKTOP SUPPORT
5636	iLOFT VDS TELEPHONE DESKTOP SUPPORT
9410	VEO MONITOR DESKTOP SUPPORT

FITTING INSTRUCTIONS

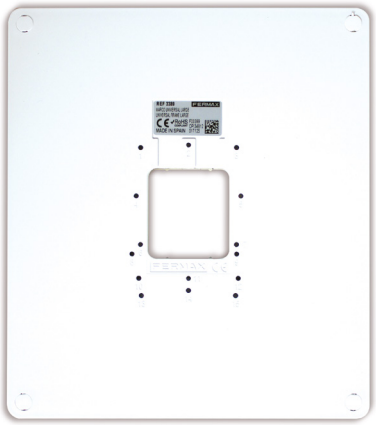


1. Install the monitor connector on the desktop and secure it with the screws provided.
2. Connect the power strips according to colour code and installation.
3. Place the monitor on the connector.
4. Clean with alcohol the area where you intend to put the cable and clip it to the support.

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

UNIVERSAL DECORATIVE FRAME

Ref.3388



Ref.3389

iLoft

Loft

Smile 7”

UNIVERSAL DECORATIVE FRAME

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

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

TWO DIFFERENT MODELS

There are two different UNIVERSAL FRAMES to choose depending on the terminal which is going to be installed.

3388 UNIVERSAL DECORATIVE FRAME

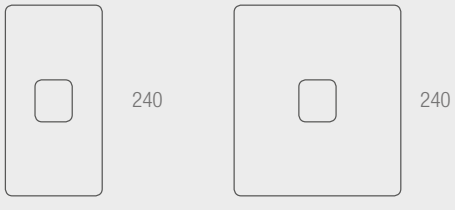
Allows the assembly:
- CITYMAX, LOFT and iLOFT telephones.
- 3,5” SMILE monitor.

3389 LARGE UNIVERSAL FRAME

Allows the assembly:
- CITYMAX, LOFT and iLOFT telephones.
- 3,5” SMILE monitor.
- 7” SMILE monitor.
- VEO monitor.

DIMENSIONS

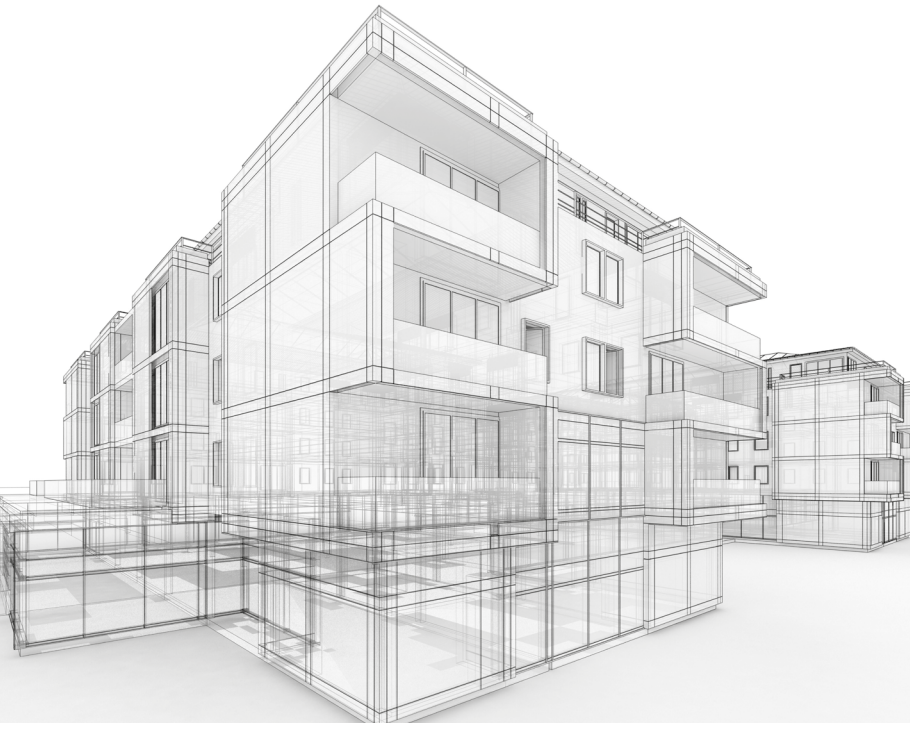
3388	UNIVERSAL D. FRAME	120x240
3389	LARGE UNIVERSAL D.FRAME	210x240



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

EXIT
EXIT

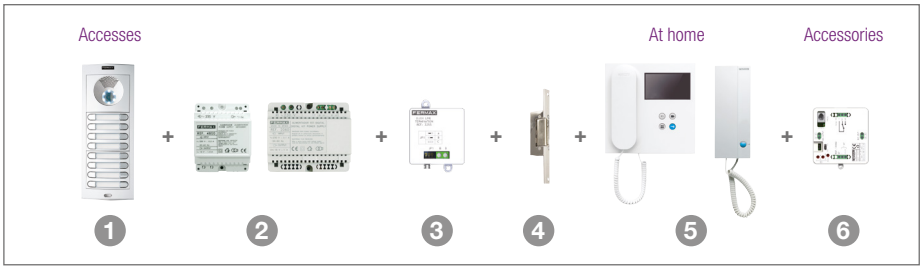
DUOX
VDS
ANALOGUE
MDS



SYSTEMS

COMPOSITION

1. Outdoor panel
2. Power supply+adaptor
3. Line adaptor
4. Door lock release
5. Monitors and telephones
6. Accessories: relay (optional)



FEATURES

• A simplified installation system. It realises the transmission of the signal (audio, video & data) in a completely digital way increasing the equipment capacity using only 2 non polarised wires.
• Capacity: The system enables the management of up to 999.999 homes, up to 10 general entrance panels, up to 10 panels by block and 10 panels by sub-blocks, up to 100 interior blocks and up to 100 subblocks.
• Wiring: flexibility in the use of different cable types following the the specifications of DUOX features table *(See DUOX technical information).*
- In new constructions it is possible to use equally parallel cable, twisted pair cable, UTP (CAT-5), 4+N or 9/10º.
- In replacement works, DUOX works with the existing cable from old installations: 5 wires, 2 wires doorbell or even old 4+N wires.
• Maximum distance: up to 120 meters (expandable with regenerators).*
• No need for floor distributors or panel switchers. One line terminal is needed at the start and end of each riser.
• Requires 1 power supply per 40 monitors.
• Extensions inside the home: may be extended with up to 2 monitors or 2 phones.
• All panels include colour camera as standard issue.
• The DUOX amplifier comes with built-in voice synthesizer. When door release is activated, the message is heard: "The door is open. Please, close the door behind you." Configurable in 28 languages.
• The DUOX amplifier has a built-in voice guided programming system to facilitate in push button panels the configuration and start-up of the installation.
• DUOX amplifier does not include PAN&TILT.
• DUOX monitors and handsets must be programmed with the nº of the apartment where they are installed from a panel configured as Master or from the own monitor.
• DUOX monitors and handsets can be combined in the same installation, with no need for additional elements.
• Phone handsets can be upgraded to monitors in the home at any time, without including additional elements.

* For audio installations, see the "Audio DUOX information" at the "Technical Info" section.

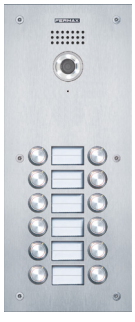
1. OUTDOOR PANEL

CITYLINE AND MARINE PUSH BUTTONS

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

2441	16 CALL EXTENSION MODULE
2008	8 CALL EXTENSION MODULE

CITYLINE


MARINE

ref.2441

ref.2008

SKYLINE PANEL

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

VIDEO MODULE

ref.7391
Video module W

ref.7390
Audio module W

SKYLINE FRAMES

ref.7341
Frame 1V-S1.
130x128

ref.7332
Frame 2V-S2.
130x151

ref.7333
Frame 3V-S4.
130x199

ref.7334
Frame 4V-S5.
130x246

ref.7335
Frame 5V-S6.
130x294

ref.7336
Frame 6V-S7.
130x341

ref.7337
Frame 7V-S8.
130x389

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

DUOX DOUBLE PUSH BUTTONS

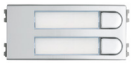
ref.7371
8 Push. 204W

ref.7372
4 Push. 202V

ref.7376
2 Push. 201V

DUOX SINGLE PUSH BUTTONS

ref.7367
4 Push. 104W



ref.7368
2 Push. 102V

ref.7375
1 Push. 101V

DUOX DIGITAL PUSH BUTTONS

ref.7439
Direct keypad W

ref.7449
Display W

ref.7447
Digital keypad W

ref.7450
Extra Display W

ref.7457
AC PLUS Direct keypad

INFORMATION MODULES

ref.7445
Cardholder W

ref.7444
Cardholder V

ref.7448
OneToOne V

ACCESSORIES

ref.7443
Metallic complement W

ref.7442
Metallic complement V

STAND-ALONE ACCESS CONTROL

ref.7438
Keypad W

ref.6936
Fingerprint W

ref.7440
Proximity V

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

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

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

DIGITAL / DIRECT PANELS

- DIGITAL panels include a keypad and a directory display.
  The keypad incorporates an access control function (350 codes).
- DIRECT panels have a keypad to call the apartments.
  The keypad admits 1 door release code. Adding a directory panel or card slot is recommended.

SKYLINE

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

CITYLINE

7364	DUOX DIGITAL VIDEO CITY PANEL S7
7387	EXTRA DUOX DIGITAL VIDEO CITY PANEL S7
7384	DUOX DIGITAL AUDIO CITY PANEL S7
7310	DIRECTORY PANEL S7
8857	FLUSH BOX S7
7363	DUOX DIRECT VIDEO CITY PANEL S5
7361	DUOX DIRECT AUDIO CITY PANEL S5
7309	DIRECTORY PANEL S5
8855	FLUSH BOX S5
8829	JOINING BOLTS SET

MARINE

5483	DUOX DIGITAL VIDEO MARINE PANEL ST3
5526	DUOX EXTRA DIGITAL VIDEO MARINE PANEL ST3
5523	DUOX DIGITAL AUDIO MARINE PANEL ST3
5524	DUOX EXTRA DIGITAL AUDIO PANEL ST3
5471	DIRECTORY MARINE PANEL ST3
4643	FLUSH BOX ST3
2289	JOINING BOLTS SET

DIRECT panel with directory cardholder

Video panel ref.7364

Video panel ref.7387

ref.7363 ref.7309

ref.5483

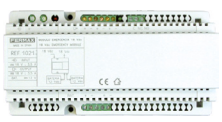
ref.5526

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

2. POWER SUPPLY/ADAPTOR

4830	POWER SUPPLY. 18Vdc/3,5A
	To power the DUOX System. 1 power supply is required for each 40 monitors. Necessary for extensions at home. DIN6
4812	POWER SUPPLY. 18Vdc/1,5A
	To power the DUOX System. 1 power supply is required for each 24 monitors. Necessary for extensions at home. DIN6
4810	POWER SUPPLY. 18Vdc/1,5A-12Vac/1,5A
1021	EMERGENCY MODULE. 18Vdc
	For operation in the event of power cuts. Requires 2 lead acid batteries 12V/2,2A.
3244	DUOX FILTER
	Combining with the power supply ref.4830, ref.4812 and ref.4810.
3255	DUOX LINE ADAPTOR
	Necessary at the end of every riser.

ref.4812



ref.1021

ref.4830

ref.3244

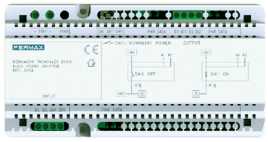
ref.3255

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

DUOX

3258 AUDIO DUOX TRUNK SHUNT ISOLATOR

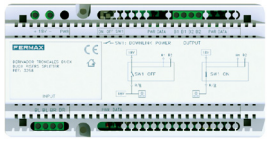
Splits a riser into 2 separate branches, regenerating the signal and isolating each branch against possible breakdowns. Up to 4 modules on 2 levels (16 outputs). Risers can share the power source or have one supply per riser. To be installed with PSU, filter already included.
Cascade connection up to 2 levels. A higher load (up to 200 terminals per riser) may be connected by adding power supplies and depending on the type of wiring used.



ref.3258

3253 VIDEO DUOX TRUNK SHUNT ISOLATOR

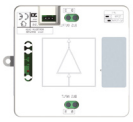
Splits a riser into 2 separate branches, regenerating the signal and isolating each branch against possible breakdowns. Up to 4 modules on 2 levels (16 outputs). Risers can share the power source or have one supply per riser. To be installed with PSU, filter already included. Cascade connection up to 2 levels.
A higher load may be connected by adding power supplies and depending on the type of wiring used.



ref.3253

3256 DUOX REGENERATOR

To regenerate the DUOX signal and extend distances and capacity of terminals. It allows for the isolation in case of short-circuits, the charge and the signal reflections. Maximum 5 units in cascade. It requires power for both sides The regenerator amplifies the data, but doesn't allow the power through.
The two side sections require their own filter+ power source.



ref.3256

3. LOCK RELEASE

UNIVERSAL LOCK RELEASE. MULTIVOLTAGE 12Vac/12Vdc

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

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

UNIVERSAL MECHANISM. MULTIVOLTAGE 12Vac/12Vdc

6750 UNIVERSAL MECHANISM 990N MAX 10-24Vac/dc

6752 UNIVERSAL MECHANISM 990A MAX 10-24Vac/dc

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

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

30711 LOCK RELEASE 540N-S MAX

Normal functioning and small shield. 12Vac.

1821 LOCK RELEASE 540Ab-S MAX

Automatic functioning and small shield. 12Vac.

3264 AC ELECTRIC LOCK COMMANDER

Maximum current: 1 Ampere.

540 990

D/C ELECTRIC LOCK (Vdc).

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

30701 LOCK RELEASE 540N-412-S MAX

Normal functioning and small shield. 12Vdc.

1820 LOCK RELEASE 540Ab-412-S MAX

Sliding automatic functioning and small shield. 12Vdc.

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

4. MONITORS AND TELEPHONES

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

ref.9405

ref.9410

VEO

9405	DUOX COLOUR VEO 4,3" MONITOR
9406	DUOX VEO CONNECTOR
9410	DESKTOP SUPPORT VEO MONITOR

ref.3412

ref.3421

ref.3422

LOFT

3412	DUOX COLOUR LOFT MONITOR
3415	DUOX LOFT CONNECTOR
3416	DUOX DESKTOP SUPPORT. 210x240
3386	DECORATIVE FRAME
3417	LOFT DUOX CONNECTOR WITH DECORATIVE FRAME
3421	DUOX BASIC PLUS LOFT TELEPHONE
3422	DUOX EXTRA LOFT TELEPHONE

ref.3416

iLOFT

Flush-mounted model:

5602	DUOX iLOFT MONITOR
5630	iLOFT FLUSH BOX. 108x158x45
5631	iLOFT CRYSTAL FRAME. 189x256x6

ref.5602

Surface model:

5603	DUOX iLOFT PURE MONITOR
5637	iLOFT MONITOR DESKTOP SUPPORT

CITYMAX

3425	DUOX BASIC CITYMAX TELEPHONE
3380	DECORATIVE FRAME. 200x240
3749	DESKTOP SUPPORT

UNIVERSAL FRAMES

3388	UNIVERSAL FRAME
3389	LARGE UNIVERSAL FRAME

ref.3425+ref.3388
120x240mm

ref.3425 ref.3389
210x240mm

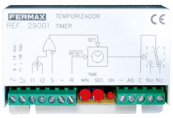
Dimensions: (width) x (height) x (depth) mm.

5. ACCESSORIES

ADDITIONAL FUNCTIONS

29001 TIMER

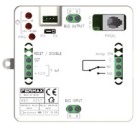
Allows for the activation of a device for a given time (programmable from 0 to 6 minutes or 0 to 60 seconds). The activation can be automatic when a call is received or by means of a specific button on the telephone or monitor.



ref.29001

3257 DUOX RELAY MODULE

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



ref.3257

2013 ADDITIONAL FUNCTION RELAY

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

ref.2013

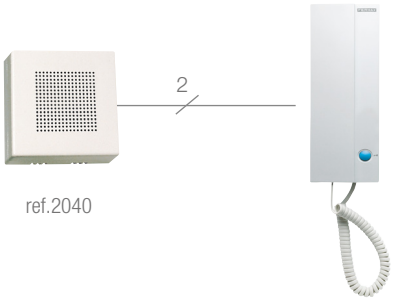
CALL ACCESSORIES

2040 ELECTRONIC CALL EXTENSION BELL

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

2438 LIGHT OR BUZZER ACTIVATOR

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



ref.2040

6. CABLES

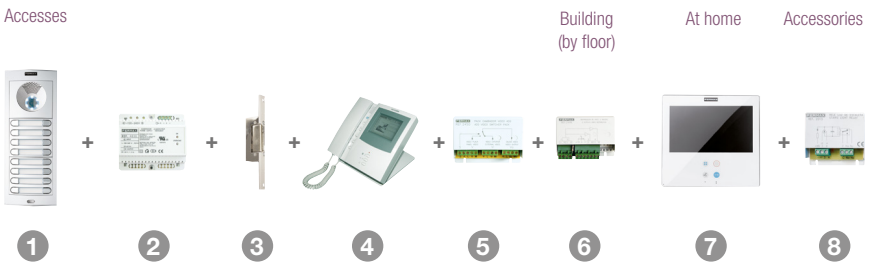
5925 DUOX PARALLEL CABLE. 2x1mm2

Cables are supplied in 100 metre rolls.

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

COMPOSITION

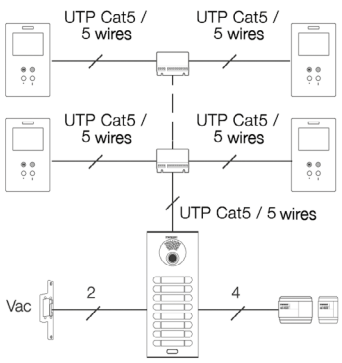
1. Outdoor panel
2. Power supply
3. Door lock release
4. Guard Unit
5. Switcher (2 video accesses)
6. Building (by floor): distributor (video)
7. Monitors and telephones
8. Accessories



FEATURES

- **VDS wiring**: 5 wires, UTP CAT5 or 3 wires+coax.
- **Capacity**: buildings of up to 199 homes, 2 entry accesses and central guard unit.
- **Maximum distance**: 200 mtrs. *(See VDS technical info).*
- The VDS AMPLIFIER includes **Voice Synthesizer** as standard in 32 languages. A message is reproduced when the lock-release is activated: *"The door is open. Please, close the door behind you".*
- The **CAMERA is always in COLOUR**.
- The VDS MONITORS & HANDSETS must be programmed with the number of the corresponding home. It is possible to combine monitors and telephones in the same installation.
- The communication is **PRIVATE.**
- In replacements, the VDS allows to change 4+N entry system for a VDS video entry setup, making use of the existing wiring.

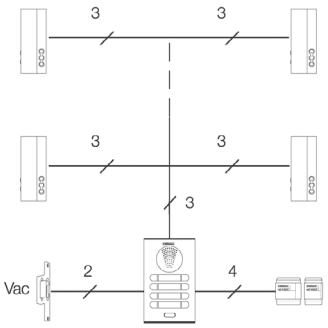
VIDEO



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

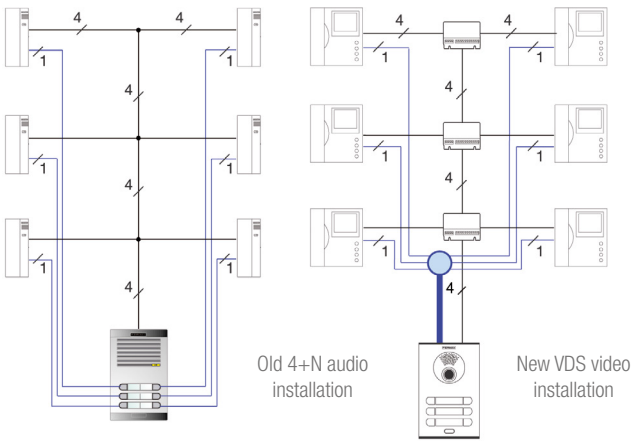
* It's possible to use 3 wires+coax. See specific technical information.

AUDIO



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

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



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

1. OUTDOOR PANEL

PUSH BUTTONS

SKYLINE (SEE SKYLINE PANEL SECTION)

CITYLINE AND MARINE

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

2441	16 CALLS MODULE
2008	8 CALLS MODULE

CITYLINE

MARINE

ref.2441

ref.2008

DIGITAL / DIRECT PANEL

- DIGITAL panels include a KEYPAD and a DIRECTORY DISPLAY. The keypad incorporates an access control function (350 codes).
- DIRECT panels have a KEYPAD to call the apartments. The keypad incorporates an access control function.

SKYLINE (SEE NEXT PAGE)

CITYLINE

7299	VDS DIGITAL VIDEO PANEL S7
7303	VDS DIGITAL AUDIO PANEL S7
7310	DIRECTORY PANEL S7
8857	FLUSH BOX S7
7305	VDS DIRECT VIDEO PANEL S5
7309	DIRECTORY PANEL S5
8855	FLUSH BOX S5
8829	JOINING BOLTS SET

ref.7299

ref.7305 ref.7309

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

MARINE

5468	VDS DIGITAL VIDEO PANEL ST3
5465	VDS DIGITAL AUDIO PANEL ST3
5471	DIRECTORY MARINE PANEL ST3
4643	MARINE FLUSH BOX ST3
4647	MARINE SURFACE BOX ST3
2289	JOINING BOLTS SET

ref.5468

ref.5471

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

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

PLACA SKYLINE

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

VIDEO AND AUDIO MODULES

ref.7421
Video W

ref.7415
Audio W

SKYLINE FRAMES

ref.7341
Frame 1V-S1.
130x128

ref.7332
Frame 2V-S2.
130x151

ref.7333
Frame 3V-S4.
130x199

ref.7334
Frame 4V-S5.
130x246

ref.7335
Frame 5V-S6.
130x294

ref.7336
Frame 6V-S7.
130x341

ref.7337
Frame 7V-S8.
130x389

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

DOUBLE PUSH BUTTONS

ref.7371
8 Push. 204W

ref.7372
4 Push. 202V

ref.7376
2 Push. 201V

SINGLE PUSH BUTTONS

ref.7367
4 Push. 104W

ref.7368
2 Push. 102V

ref.7375
1 Push. 101V

DIGITAL PUSH BUTTONS

ref.7439
Direct keypad W

ref.7449
Display W

ref.7447
Digital keypad W

INFORMATION MODULES

ref.7445
Cardholder W

ref.7444
Cardholder V

ref.7448
OneToOne V

ACCESSORIES

ref.7443
Metallic
complement W

ref.7442
Metallic
complement V

STAND-ALONE ACCESS CONTROL

ref.7438
Keypad W

ref.6936
Fingerprint W

ref.7440
Proximity V

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

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

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

2. POWER SUP. / SWITCHER / DECODER

4830 POWER SUPPLY. 18Vdc/3,5A

To power the system. One power supply is required for each 40 monitors or each 80 telephones. DIN6 format.

4812 POWER SUPPLY. 18Vdc/1,5A

For additional monitors in homes. 1 power supply is required for every 2 additional monitors in the apartment. DIN6 format.

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

4802 POWER SUPPLY. 12Vac/1A

4800 POWER SUPPLY. 12Vac/1,5A

To power the electric lock (Vac). DIN4 format.

1021 EMERGENCY MODULE. 18Vdc

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

2450 VDS VIDEO SWITCHER

For installations with 2 VDS video outdoor panels (w/o guard unit).

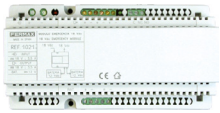
3265 VDS TESTER

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

ref.4830

ref.4812

ref.4800



ref.1021

ref.2450

COMBINATION WITH OTHER SYSTEMS

2409 VDS/MDS DECODER

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

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

3. LOCK RELEASE

UNIVERSAL LOCK RELEASE. MULTIVOLTAGE 12Vac/12Vdc

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

UNIVERSAL MECHANISM. MULTIVOLTAGE 12Vac/12Vdc.

6750 UNIVERSAL MECHANISM 990N MAX 10-24Vac/dc

6752 UNIVERSAL MECHANISM 990A MAX 10-24Vac/dc

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

A/C ELECTRIC LOCK (Vac).

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

30711 LOCK RELEASE 540N-S MAX

Normal functioning and small shield. 12Vac.

1821 LOCK RELEASE 540Ab-S MAX

Automatic functioning and small shield. 12Vac.

3264 AC ELECTRIC LOCK COMMANDER

Maximum current: 1 Ampere.

D/C ELECTRIC LOCK (Vdc).

30701 LOCK RELEASE 540N-412-S MAX

Normal functioning and small shield. 12Vdc.

1820 LOCK RELEASE 540Ab-412-S MAX

Sliding automatic functioning and small shield. 12Vdc.

540

990

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

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

4. GUARD UNIT

2536	VDS CITYMAX GUARD UNIT

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

2492	VDS GUARD UNIT CONNECTION MODULE

For installations with outdoor panel. DIN10 format.

ref.2536

5. MONITORS AND TELEPHONES

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

SMILE MONITOR

6545	3,5" SMILE MONITOR	
6558	3,5" ABSOLUTE WHITE SMILE MONITOR	
6563	3,5" SILVER SMILE MONITOR	
6564	3,5" BLACK SMILE MONITOR	
6550	7" SMILE MONITOR	
6555	7" ABSOLUTE WHITE SMILE MONITOR	
6556	7" SILVER SMILE MONITOR	
6557	7" BLACK SMILE MONITOR	
6565	WHITE SMILE CONNECTOR	
6548	SILVER SMILE CONNECTOR	
6567	BLACK SMILE CONNECTOR	
6547	3,5" ABSOLUTE WHITE SMILE DECOR. FRAME	
6570	3,5" SILVER SMILE DECORATIVE FRAME	
6571	3,5" BLACK SMILE DECORATIVE FRAME	
6546	3,5" SMILE FLUSH BOX	
6552	7" ABSOLUTE WHITE SMILE DECOR. FRAME	
6559	7" SILVER SMILE DECORATIVE FRAME	
6560	7" BLACK SMILE DECORATIVE FRAME	
6551	7" SMILE FLUSH BOX	
6566	SMILE MONITOR DESKTOP SUPPORT	

For Smile 3,5" and 7" monitors.

ref.6545 ref.6558 ref.6563 ref.6564

ref.6550

ref.6557

ref.6545+ref.6547

ref.6550+ref.6552

ref.6550+ref.6566

VEO MONITOR

9401	VEO VDS COLOUR MONITOR
9402	VEO VDS CONNECTOR
9410	VEO DESKTOP SUPPORT

ref.9405

ref.9410

VDS

LOFT MONITOR

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

ref.3305

ref.3384
250x240

ILOFT MONITOR

Flush-mounted model:

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

ref.5620

ref.5631

Surface model:

5606	SURFACE iLOFT PURE MONITOR

Frontal covers (Only iLOFT models):

5633	SILVER COVER
5634	BLACK COVER
5635	GOLD COVER

ref.5633

ref.5634

ref.5635

VIDEO DISTRIBUTORS

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

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

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

ref.2448

ref.3260

LOFT TELEPHONE

3390	VDS LOFT BASIC TELEPHONE
3391	VDS LOFT EXTRA TELEPHONE
3380	DECORATIVE FRAME. 200x240
3441	LOFT HANDSET WITH INDUCTION LOOP
3749	DESKTOP SUPPORT

BASIC

EXTRA

DECORATIVE FRAME

ILOFT TELEPHONE

5601	VDS iLOFT TELEPHONE

iLOFT

ref.3388

ref.3389

UNIVERSAL FRAMES

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

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

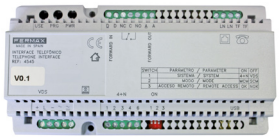
6. VDS ACCESSORIES

APPLICATION	USE	NECESSARY EQUIPMENT
TO OPEN A SECOND DOOR	To open a door other than the one where the panel is from the telephone or monitor (for example, a rear door or a 2nd security door).	• Relay (ref.2013). • Additional button on the telephone or monitor*. • Power supply (ref.4800).
SWITCHING ON THE STAIR LIGHT	To activate the stair light timer from the telephone or monitor.	• Additional button on the telephone or monitor*. • Relay (ref.2013).
ACTIVATING A BELL FOR ADDITIONAL LIGHT WHEN A CALL IS RECEIVED	For places with excessive ambient noise or for people with auditive disabilities.	• Activator (ref.2438).
ACTIVATING A BELL, LIGHT OR DOOR FOR A CONSIDERABLE LENGTH OF TIME	To activate a device automatically when a call is received or manually by means of an additional button but for a pre-established time.	• Timer (ref.29001). • Additional button on the telephone or monitor if the activation is manual*.
HEARING THE CALL FROM ANOTHER PLACE THAN THAT WHERE THE TELEPHONE IS	When it is necessary to send the call sound to different parts of the home or business premises.	• Call extender (ref.2040) for electronic call.
VIEW FROM A SECOND CAMERA	To view a different place from that seen from the video camera on the door entry panel (rear of the house, etc.).	• As standard in Smile monitors. • Selector-changer (ref.2450) and camera kit for VDS system. Possible to expand up to 8 cameras with the selector ref.2472. • 2 additional buttons on the monitor.
OTHER OPTIONS		
TO RELEASE 2 ELECTRIC LOCKS AT THE SAME TIME	When a security door is installed in front of the main door and both need to be opened at the same time.	• Relay (ref.2013). • Power supply (ref.4800). • Automatic lock release (ref.3069).
TO ACTIVATE A LOCK RELEASE BY MEANS OF AN EXIT BUTTON	To open the door from a different place to where the telephone is. To open a door or security door that does not have a handle from inside the hallway.	• Does not require any special equipment. For VDS systems, connect the button between the corresponding exit terminals of the outdoor panel amplifier.

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

4545 TELEPHONE INTERFACE

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

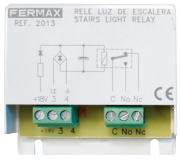


ref.4545

ADDITIONAL FUNCTIONS

2013 2A ADDITIONAL FUNCTIONS RELAY

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



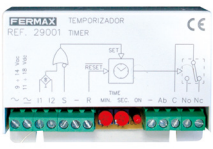
ref.2013

3491 DIN RAIL RELAY. 12Vdc/12A

88101 DOUBLE CONTACT RELAY. 18Vdc

29001 TIMER

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



ref.29001

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

VDS

VIDEO ACCESSORIES

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

2450 VDS VIDEO SELECTOR/SWITCHER

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

ref.2450

2472 8-CAMERAS SELECTOR

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

4614 2ND CAMERA SELECTOR

Allows for the selection of a 2nd camera by means of F1 push button.

ref.2472

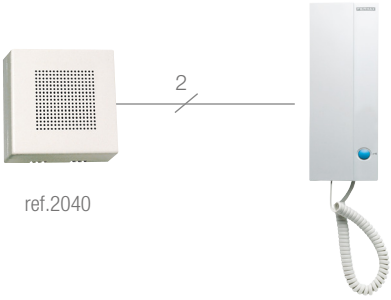
4110 VIDEO AMPLIFIER

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

CALL ACCESSORIES

2040 ELECTRONIC CALL EXTENSION BELL

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



ref.2040

2438 VDS LIGHT OR BUZZER ACTIVATOR

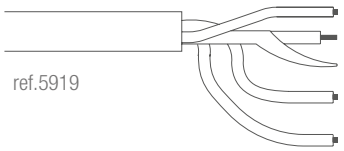
Allows for the activation of high powered devices or indicators when a call is received: bells, sirens, light bulbs, etc. It is possible to connect 1 for each monitor or handset.

CABLES

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

5919 VIDEO BUS CABLE. 1MTR

3 wires of 1mm^2 + 1 coaxial of 75 Ohms.



ref.5919

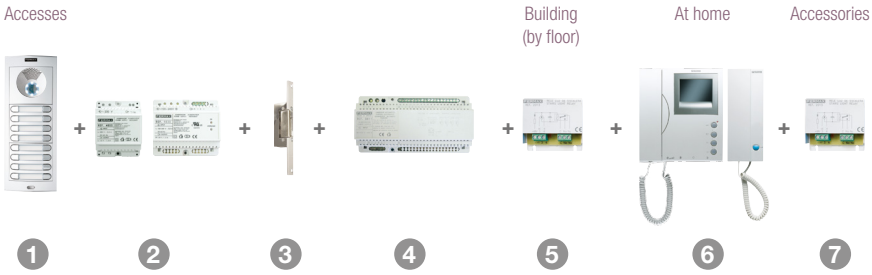
Dimensions: (width) x (height) x (depth) mm.

FERMAX ANALOGUE

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

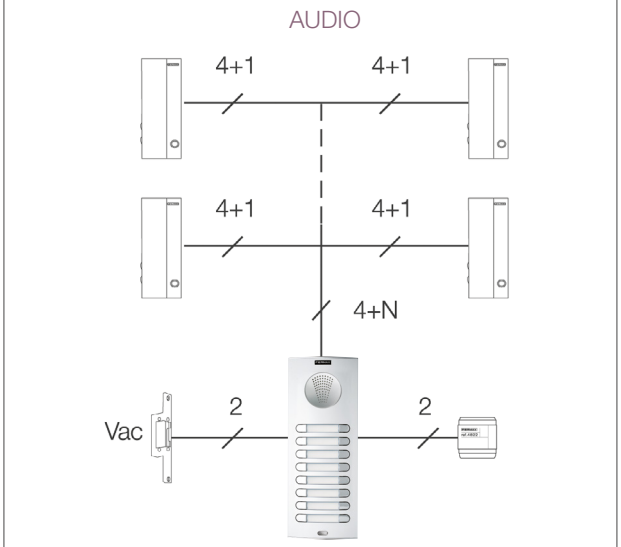
COMPOSITION

1. Outdoor panel
2. Power supply (audio/video)
3. Door lock release
4. Switcher (2 to 7 accesses)
5. Distributor (video)
6. Monitors and telephones
7. Accessories



FEATURES

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



1. OUTDOOR PANEL

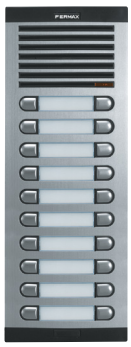
PUSH BUTTONS

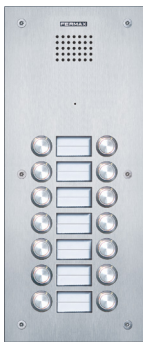
(See combinations at Panels section).

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

CITYLINE

SKYLINE


CITYLINE CLASSIC


MARINE

2. POWER SUPPLY / SWITCHERS

GENERAL POWER SUPPLY

4802	AUDIO POWER SUPPLY. 12Vac/1A
4800	AUDIO POWER SUPPLY. 12Vac/1,5A
	Supplies the audio system. One unit required for each outdoor panel. DIN4 format.
4830	POWER SUPPLY 18Vdc/3,5A
	Supplies the video system for video entry installations. One unit required for every 40 apartments. DIN6 format.

ref.4800

ref.4830

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

ANALOGUE

4812 POWER SUPPLY. 18Vdc/1,5A

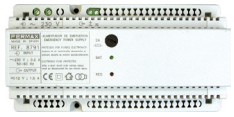
For monitor extensions in homes. One power supply (ref.4812) is required for every 2 additional monitors. DIN6 format.

ref.4812

EMERGENCY POWER SUPPLY

8791 EMERGENCY AUDIO POWER SUPPLY

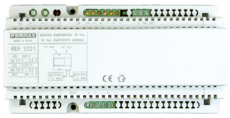
Supplies the audio system when the electricity supply fails. Normal output 12 Vac/1.5A. Emergency output 12Vdc/1.5A. Includes a Ni-Cd battery that guarantees the functioning of the audio system and over 400 lock-release services. One unit is required for each outdoor panel. DIN10 format.



ref.8791

1021 EMERGENCY BATTERY ADAPTOR. 18VDC

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



ref.1021

SWITCHERS

8809 VOLTAGE DISTRIBUTOR

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

BUILDING WITH 2 ACCESSES

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

MORE THAN 2 ACCESSES

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

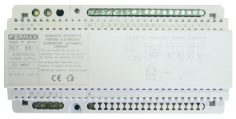
In case of video door entry system, add 1 power supply (ref.4830) each 40 apartments.

88231 POWER SUPPLY/VOLTAGE DISTRIBUTOR

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

8811 AUDIO AUTOMATIC SWITCHER

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



ref.8811

8812 VIDEO AUTOMATIC SWITCHER

8819 1/W AUDIO AUTOMATIC SWITCHER

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

3. LOCK RELEASE

30711 LOCK RELEASE 540N-S MAX

Normal functioning and small shield. 12Vac.

1821 LOCK RELEASE 540Ab-S MAX

Sliding automatic functioning and small shield. 12Vac.

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

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

4. GUARD UNIT

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

84601 CITYCOM GUARD UNIT TELEPHONE

5. TELEPHONE AND MONITORS

LOFT TELEPHONE

3393 BASIC LOFT TELEPHONE

3394 EXTRA LOFT TELEPHONE

3399 UNIVERSAL LOFT TELEPHONE

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

3380 DECORATIVE FRAME. 200x240

3441 LOFT HANDSET WITH INDUCTION LOOP

3749 DESKTOP SUPPORT

BASIC/UNIVERSAL EXTRA DECORATIVE FRAME

CITYMAX TELEPHONE

80447 BASIC CITYMAX TELEPHONE (WHITE)

8039 UNIVERSAL CITYMAX TELEPHONE (PEARL)

2127 CITYMAX DECORATIVE FRAME (PEARL)

BASIC (WHITE) UNIVERSAL (PEARL)

LOFT MONITOR

3310 B/W LOFT MONITOR

3307 COLOUR LOFT MONITOR

3315 LOFT CONNECTOR

3324 DESKTOP CONNECTOR

3441 LOFT HANDSET WITH INDUCTION LOOP

ref.3307

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

ANALOGUE

UNIVERSAL FRAMES

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

ref.3388

ref.3389

VIDEO DISTRIBUTORS

2448	2 WAYS VIDEO DISTRIBUTOR
2449	4 WAYS VIDEO DISTRIBUTOR

ref.2448

6. INTERCOMMUNICATION. PALACE SYSTEM

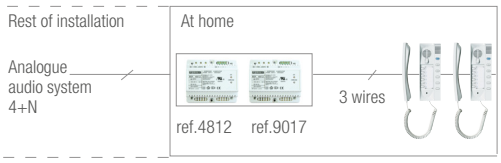
PALACE BUS SYSTEM (SECRET)

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

ref.8084

8084	BUS PALACE TELEPHONE
9017	BUS MULTIWAY SWITCHER
88039	BUS MULTIWAY POWER SUPPLY
	For intercom installations without outdoor panel.

PALACE BUS SYSTEM



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

6. 4+N ACCESSORIES

APPLICATION	USE	NECESSARY EQUIPMENT
TO OPEN A SECOND DOOR	To open from the telephone or monitor a different door to where the outdoor panel is (for example, a rear door or a second security door).	• Relay (ref.2013). • Additional button on the telephone or monitor*. • Power supply (ref.4800). • Lock release mod.450A-S (ref.3069).
SWITCHING OF THE STAIR LIGHT	To activate the stair light timer from the telephone or monitor.	• Additional button on the telephone or monitor*. • Relay (ref.2013).
ACTIVATING AN ADDITIONAL BELL OR LIGHT WHEN A CALL IS RECEIVED	For places with excessive ambient noise or for people with auditive disabilities.	• Activator ref.8053. Connection between 3 and 4 monitors/telephones of the house.
ACTIVATING A BELL, LIGHT OR DOOR FOR A CONSIDERABLE LENGTH OF TIME	To activate a device automatically when a call is received or manually by means of an additional button but for a pre-established time.	• Timer (ref.29001). • Additional button on the telephone or monitor if the activation is manual*.
HEARING THE CALL FROM ANOTHER PLACE WHERE THE TELEPHONE IS PLACED	When it is necessary to send the call sound to different parts of the home or business premises.	• Call extender (ref.2040) for conventional electronic call system.
VIEW FROM A SECOND CAMERA	To view a different place from that seen from the video camera on the street panel (rear of the house, etc.).	• Image selector (ref.4614) and camera kit. • Additional button on the telephone/monitor is required*.
OTHER OPTIONS		
TO RELEASE 2 ELECTRIC LOCKS AT THE SAME TIME	When a security door is installed in front of the main door and both need to be opened at the same time.	• Relay (ref.2013). • Power supply (ref.4800). • Automatic lock release (ref.3069).
LOCK RELEASE BY MEANS OF AN EXIT BUTTON	To open the door from a different place to where the telephone is. To open a door or security door that does not have a handle from inside the hallway.	• No special equipment is required. For conventional system, connect the push button between terminals 1 and 3 of the panel amplifier (or phone amplifier).

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

4545 TELEPHONE INTERFACE

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

ref.4545

4+N PANEL ACCESSORIES

2065 GENERAL CALL AMPLIFIER

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

ref.2065

7900 COMPATIBLE SINGLE-CHANNEL RECEIVER

Module for installation in audio entry panels which makes it possible to activate the lock-release by means of a remote control. Frequency: 433 Mhz. Power supply 12 Vdc/ac. Dimensions: 60x70x17.

ref.7900

79561 DUAL CHANNEL EMITER. 433MHZ

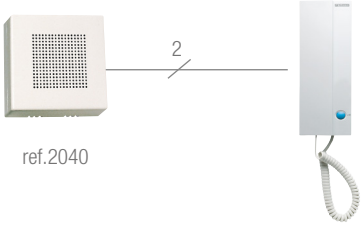
ref.79561

1170 32 LANGUAGES VOICE SYNTHESIZER

CALL ACCESSORIES

2040 ELECTRONIC CALL EXTENSION BELL

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



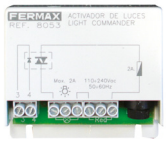
ref.2040

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

ANALOGUE

8053 4+N/MDS LIGHT OR BUZZER COMMANDER

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



ref.8053

2340 4+N/MDS CALL MULTIPLIER

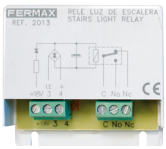
Device which increases the call volume in installations with more than 5 telephones or monitors at home. Power supply 18Vdc (ref.4812).

ref.2340

ADDITIONAL FUNCTIONS

2013 2A ADDITIONAL FUNCTION 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.



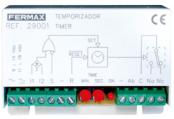
ref.2013

3491 DIN RAIL RELAY. 12Vdc/12A

88101 DOUBLE CONTACT RELAY. 18Vdc

29001 TIMER

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

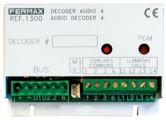


ref.29001

COMBINATION WITH OTHERS SYSTEMS

1300 MINIDECODER AUDIO 4+N

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



ref.1300

VIDEO ACCESSORIES

2472 8-CAMERAS SELECTOR

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

4614 2ND CAMERA SELECTOR

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

4110 VIDEO AMPLIFIER

To regenerate the video signal of the coaxial.

ref.2472

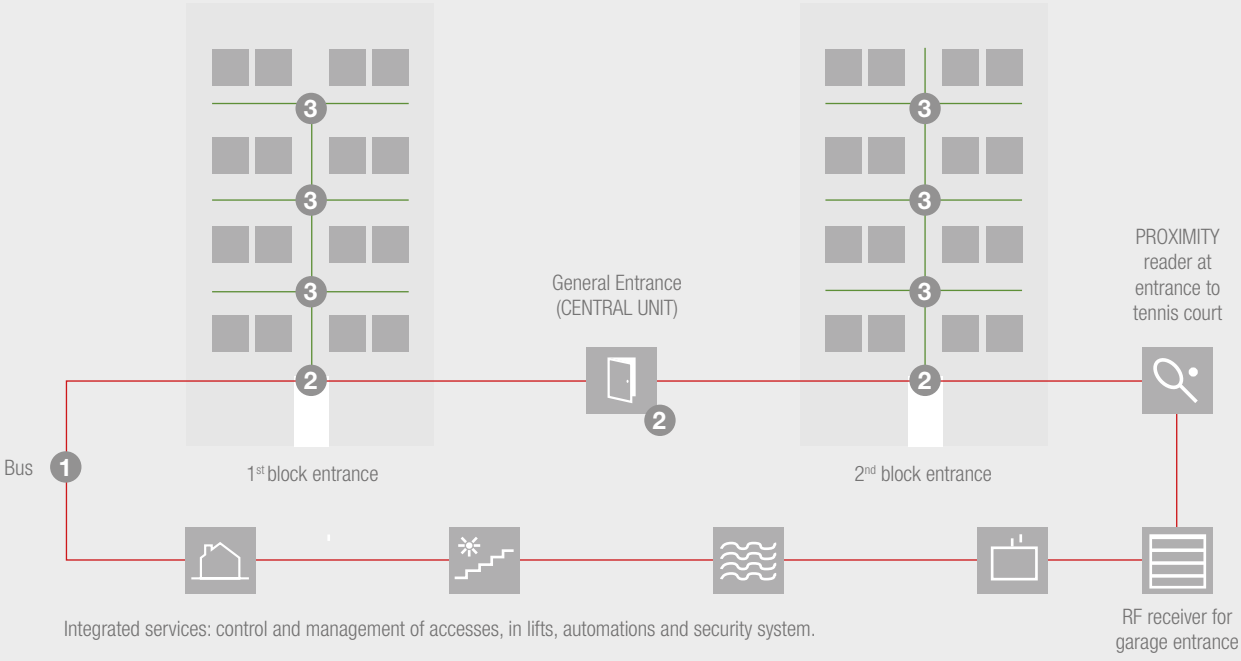
Dimensions: (width) x (height) x (depth) mm.

FEATURES

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

MDS SYSTEMS OPTIONS

- **MDS DIGITAL:** Requires a Central Unit (C.U. Capacity: 9.999 homes, 32 accesses/guard units). Up to 63 Central Units can be connected. Incorporates all the MDS services.
- **MDS DIRECT:** Does not require a Central Unit. Includes access control via keypad. Capacity: Up to 9.999 homes in individual blocks and 99 homes in internal apartment blocks.
- **MDS CITY**: Panel with pushbuttons. Up to 99 homes and 9 accesses per block. Does not require a Central Unit. Cannot be used as a general entrance.
- **MDS COMBINED WITH OTHER SYSTEMS:** In the case of housing complexes, the flexibility of MDS Allows for the combination of general MDS entrances and internal apartment blocks with VDS or conventional 4+N audio or video door-entry system or with individual houses.



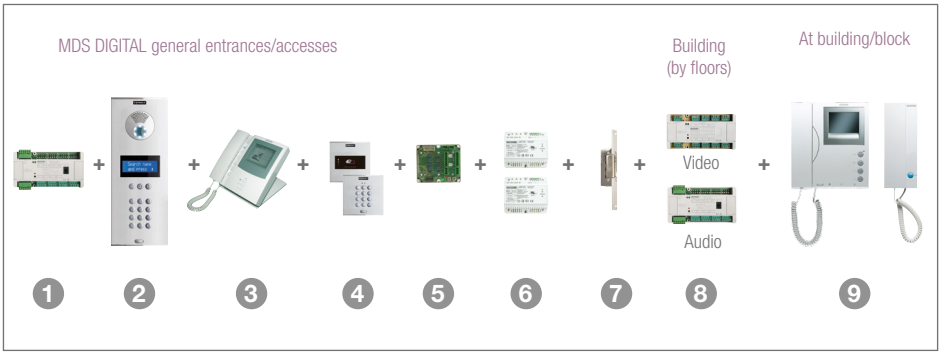
Dimensions: (width) x (height) x (depth) mm.

MDS DIGITAL

A MDS DIGITAL system at general entrances combined with VDS system at interior blocks it's composed by:

COMPOSITION

1. Central Unit (up to 32 accesses)
2. MDS digital panel
3. Guard unit
4. Readers
5. Switchers
6. Power supply (audio+video)
7. Door lock release (cc)
8. Video/audio distributor
9. Monitors and telephones



1. OUTDOOR PANEL

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

SKYLINE (SEE SKYLINE PANEL SECTION)

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

MDS Digital panel with OneToOne

MDS Digital panel with Proximity

CITYLINE

7297	MDS COLOUR DIGITAL VIDEO CITY PANEL S7
7301	MDS DIGITAL AUDIO CITY PANEL S7
7310	DIRECTORY CITY PANEL S7
8857	FLUSH BOX S7
7067	SURFACE BOX S7
8257	DECORATIVE FRAME S7
8829	JOINING BOLTS SET

ref.7297

ref.7310

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

MARINE

5470	MDS DIGITAL VIDEO MARINE PANEL ST3
5467	MDS DIGITAL AUDIO MARINE PANEL ST3
5471	DIRECTORY MARINE PANEL ST3
4643	MARINE FLUSH BOX ST3
4647	MARINE SURFACE BOX ST3
2289	JOINING BOLTS SET

ref.5470

ref.5471

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

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

2. ACCESS CONTROL READERS

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

ref.6992

ref.6994

CITYLINE

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

6992	CITY PROXIMITY READER
6994	MDS/AC+ KEYPAD

ref.5472

ref.4696

MARINE

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

5472	MARINE PROXIMITY READER
4696	MDS/AC+ KEYPAD

PROXIMITY IDENTIFIERS

23361	PROXIMITY CARD WITHOUT STRIP
2336	PROXIMITY CARD WITH STRIP
4515	PROXIMITY KEYRING

ref.23361

ref.4515

RADIOFREQUENCY

1065	RF DIGITAL RECEIVER
24651	RF DIGITAL EMITTER

ref.1065

ref.24651

Fingerprint readers need a door controller (ref.4420) for each access.

4420	DOOR CONTROLLER

ref.4420

FINGERPRINT WITH PROXIMITY

6935	CITYLINE FINGERPRINT READER

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

5482	MARINE FINGERPRINT READER

ref.6935

ref.5482

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

MDS DIGITAL

3. GUARD UNIT

2537 MDS DIGITAL GUARD UNIT

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

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

ref.2537

4. CENTRAL UNIT

Needed at installations with MDS digital panels.

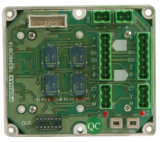
2405 MDS 1 ACCESS CENTRAL UNIT

Manages up to 9.999 apartments and 1.020 access control users.
- In individual blocks: manages up to 32 accesses (1 of them can be audio/video). For more audio/video accesses, switcher (ref.2379) every 2 accesses will be required.
- In housing complexes: up to 31 accesses per Central Unit if the accesses are audio/video, 2-access switchers ref.2379 will be required. Includes WINCOM PLUS software for PC configuration. Includes memory for incidents record (A.C. applications).

ref.2405

2379 2 ACCESSES SWITCHER

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

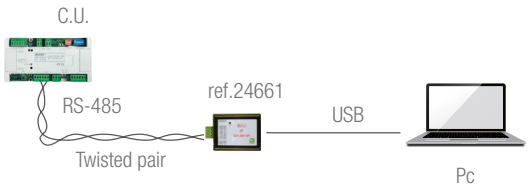


ref.2379

PC CONNECTION ACCESSORIES

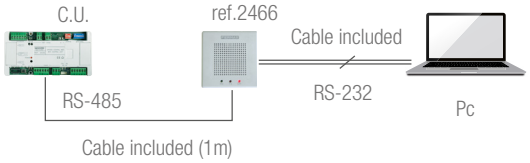
24661 USB ADAPTOR TO RS485

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



2466 PC DECODER PROGRAMMING MODULE

Enables Central Unit programming by PC (serial port).

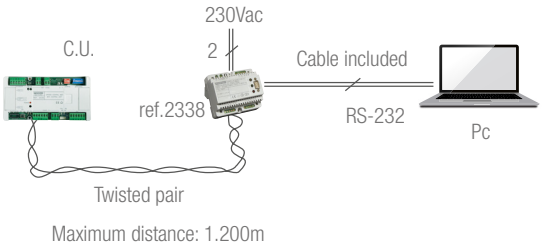


Dimensions: (width) x (height) x (depth) mm.

FERMAX MDS DIGITAL

2338 RS-232 TO RS-485 PC ADAPTOR

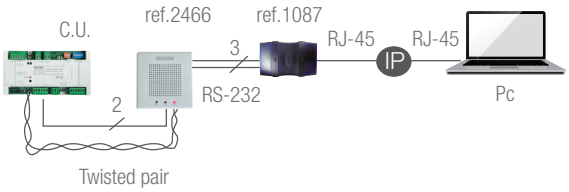
Allows Central Unit programming in FXL network. DIN. RS-232 connection to PC. Allows to connect 1 modem for remote management by telephone. Maximum distance to Central Unit: 1.200m.



Maximum distance: 1.200m

1087 IP REMOTE MANAGEMENT MODULE

Is connected to the Central Unit by means of the adaptor ref.2466. Allows for the connection of between the management computer and the installation using the computer network (Ethernet), avoiding additional wiring.

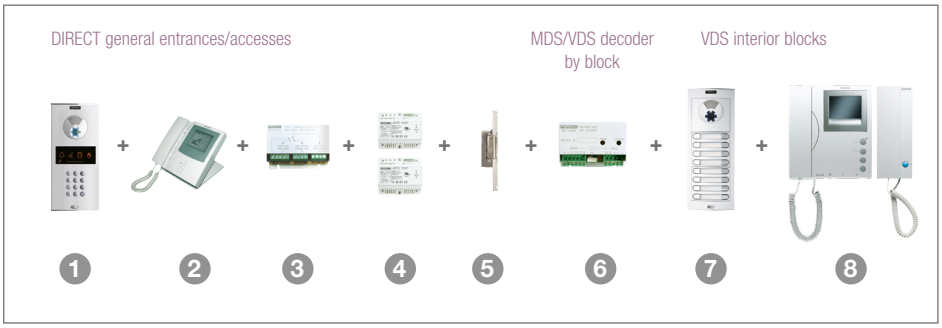


MDS DIRECT/CITY

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

COMPOSITION

1. MDS Direct outdoor panel
2. Guard Unit
3. Switcher
4. Power supply (audio+video)
5. Door lock release (VDC)
6. VDS/MDS decoder
7. VDS block panel
8. Monitors and telephones



1. OUTDOOR PANEL

MDS DIRECT

CITYLINE

Central Unit not required. The panel includes KEYPAD and requires adding a cardholder or directory.
Capacity:
- General Entrance: 9.999 apartments, 5 accesses and Guard Unit.
- Interior Block: 99 apartments and 9 accesses.
- Individual Block:
  a) 99 apartments, 5 accesses and Guard Unit.
  b) 99 apartments, and accesses.

7287 MDS DIRECT VIDEO CITY PANEL S6

7318 DIRECTORY CITY PANEL S6

8856 FLUSH BOX S6

7066 SURFACE BOX S6

ref.7287

ref.7318

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

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

MDS DIRECT / CITY

MDS CITY

Push buttons panel for access to internal blocks combined with MDS DIRECT or DIGITAL systems in general entrances. Capacity:
- Interior blocks: 99 apartments and 9 accesses.
- Individual block:
a) 99 apartments, 5 accesses and central unit.
b) 99 apartments and 9 accesses.

The SKYLINE frames and module combinations will depend on the number of apartments in the building. Required modules to configure an MDS CITY panel:
- MDS V SKYLINE digitiser.
- 4+N W SKYLINE amplifier.
- VDS SKYLINE push buttons modules.

SKYLINE

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

7460 SKYLINE V MDS DIGITISER

SKYLINE (SEE SKYLINE PANEL SECTION)

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

2. SWITCHERS

2443 MDS DIRECT/CITY 1 ACCESS SWITCHER

One is required for each additional video panel.

ref.2443

ref.2532

3. GUARD UNIT

2532 MDS DIRECT/CITY CITYMAX GUARD UNIT

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

COMMON ELEMENTS FOR ALL MDS SYSTEMS

1. POWER SUPPLY

4813 AUDIO POWER SUPPLY. 12Vdc/2A

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

ref.4813

ref.4830

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

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

4812 VIDEO POWER SUPPLY. 18Vdc/2A

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

ref.4812

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

EMERGENCY POWER SUPPLY

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

2060 EMERGENCY BATTERY ADAPTOR. 12Vdc

1021 EMERGENCY BATTERY ADAPTOR. 18Vdc

ref.2060

2. LOCK RELEASE

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

67501 UNIVERSAL LOCK RELEASE 990N-P22 MAX

10-24 Vac/dc.

6750 UNIVERSAL MECHANISM 990N MAX 10-24Vdc/ac

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

30701 LOCK RELEASE 540N-412-S MAX

Normal operation and short shield. 12Vdc.

3264 AC ELECTRIC LOCK COMMANDER

Maximum current: 1 Ampere.

540

990

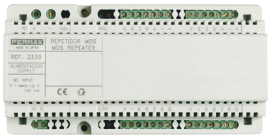
540 Series consumption		
N,A	12Vac	980mA
N-412	12Vdc	260mA

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

3. MDS REPEATER / VIDEO AMPLIFIER

2339 MDS / AC+ REPEATER

To regenerate the digital signal of the panels or decoders BUS that is transmitted by the twisted pair of the installation. DIN10 format.



ref.2339

4110 VIDEO AMPLIFIER

To regenerate the video signal when the length of the BUS is greater than 250 metres. One amplifier every 250 m.

1345 FIBER OPTICS CONVERTER

Allows MDS/AC+ signal transmissions (audio, video and data) by means of a fiber optic cable (monomode fiber with FC/PC connectors). Advantages: links up to 5 km, noise immunity and discharges isolation. Includes: transmitter (TX), receiver (RX) and two power supplies.

ref.2429

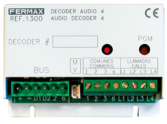
ref.2430

4. COMBINATION W/ OTHER SYSTEMS

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

1300 MDS/4+N MINIDECODER

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



ref.1300

		4+N	
		Audio I. B.	
MDS	Audio G.E.	1300	MDS/4+N Decoder
		88231	Power sup. distributor
		8811	Audio auto switcher
		29001	Timer
	Video G.E.	1300	MDS/4+N Decoder
		88231	Power sup. distributor
		8812	Video auto switcher
		2448	Video distributor
		29001	Timer

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

2409 VDS / MDS DECODER

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

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

5. MDS DECODERS/DISTRIBUTORS

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

2424 4-WAYS MDS AUDIO DECODER

2425 8-WAYS MDS AUDIO DECODER

2426 4-WAYS MDS AUDIO ISO DECODER

1 unit for every 4 homes (audio/video). Necessary in MDS installations where total isolation of the telephones from the rest of the installation is required (anti-sabotage) and in MDS DIGITAL installations with "panic button" or with light indicator on telephones. DIN10 format.

ref.2424

2436 4-PANEL DECODER. DIN10

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

ref.2436

2466 PC DECODER PROGRAMMING MODULE. PC RS-232 TO RS-485 ADAPTOR

Includes DECOWIN software and connection cables. Allows remote programming of the MDS Digital C.U. and decoders.

24661 USB TO RS-485 PC ADAPTOR

Enables programming of MDS Digital Central Unit (ref.2405) and decoders by PC via USB port.

2418 4-WAYS MDS VIDEO DISTRIBUTOR

2419 8-WAYS MDS VIDEO DISTRIBUTOR

ref.2419

2429 8-SENSOR DECODER. DIN10.

1 unit for every 8 alarm sensor inputs standard.

2430 4-RELAY DECODER.DIN10

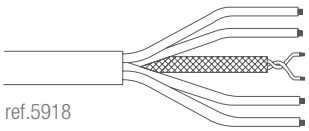
1 unit for every 8 relay outputs for activation of an electrical device of up to 2A, 250V.

6. CABLES

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

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

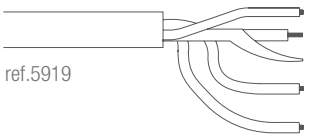
4 wires 1mm^2+1 twisted pair shielded of 2 x 0,5 mm^2.



ref.5918

5919 VIDEO BUS CABLE (1M)

3 wires of 1mm^2+1 coaxial of 75 Ohms.



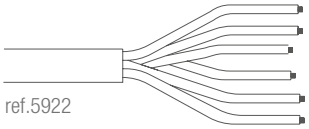
ref.5919

59200 DECODER-MONITOR CONNECTION CABLE (1M)

3 wires of 1mm^2 + 8 wires of 0,5mm^2+1 coaxial of 75 Ohms.

5922 DECODER-TELEPHONE CONNECTION CABLE (1M)

6 wires of 0,5mm^2.



ref.5922

7. MONITORS AND TELEPHONES

Consult Analogue Section

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

FEATURES

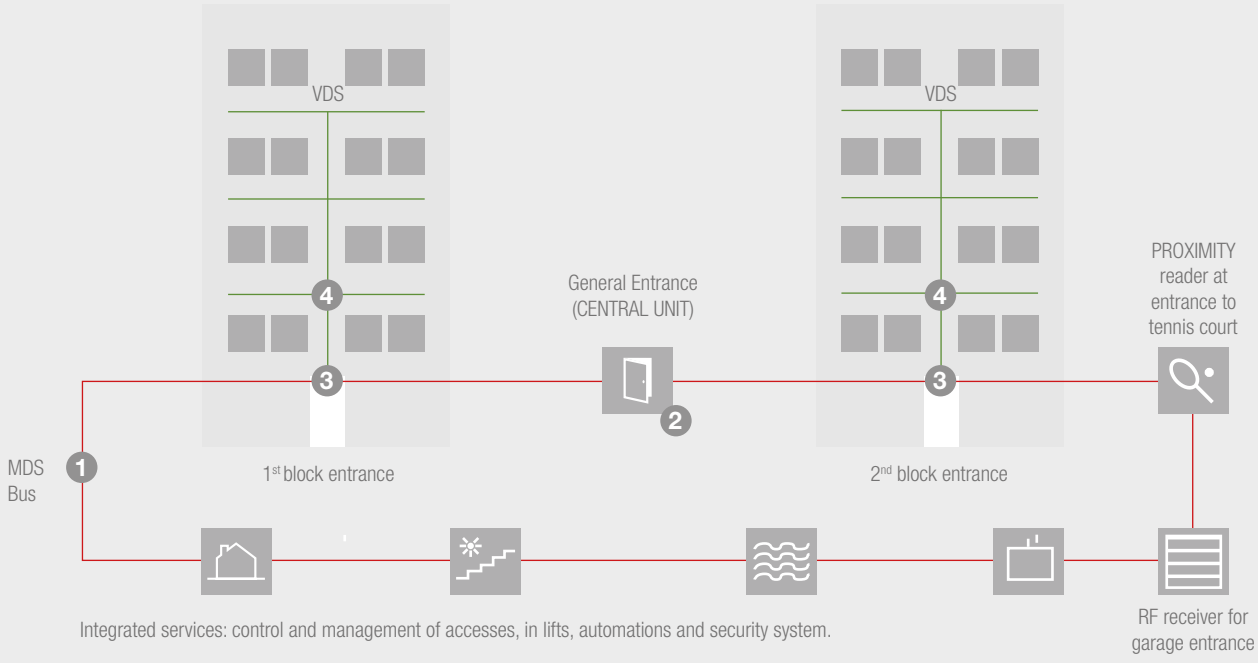
• MDS/VDS combination is the system with the most complete functions and maximum wiring simplicity.
• It consists of a combination of:
- MDS Digital System for General Entrances.
- VDS Digital System for Interior Blocks.
• Its capacity is expandable:
- From 1 to 9.999 units.
- Up to 32 entrances or guard/managements.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

IN MEDIUM SIZE BLOCKS INSTALLATIONS

One MDS/VDS Decoder is required (3) per block. VDS cable inside the building (4): UTP CAT5, 5 WIRES or 3+COAX. VDS telephones & monitors are required.

INSTALLATION

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

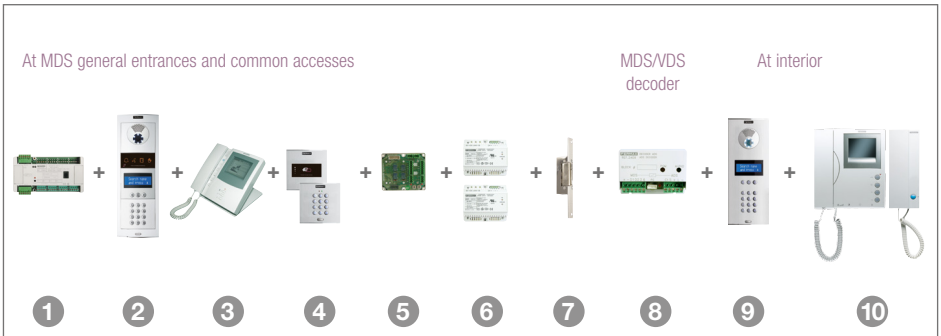


MDS/VDS

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

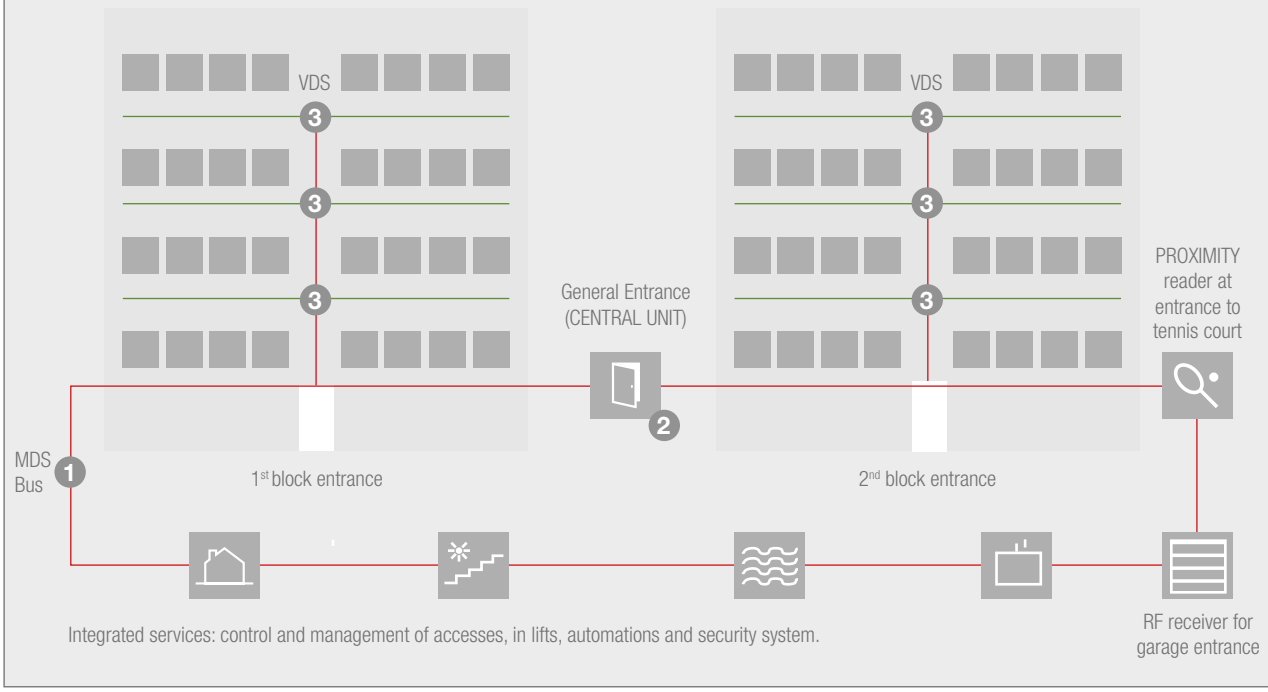
COMPOSITION

1. Central Unit (up to 32 accesses)
2. MDS digital entry panel
3. Guard unit
4. Readers
5. Switcher
6. Power supply (audio+video)
7. Door lock release (VDC)
8. MDS/VDS decoder per block
9. VDS entry panel
10. VDS monitors and telephones



IN BIG SIZE BLOCKS INSTALLATIONS

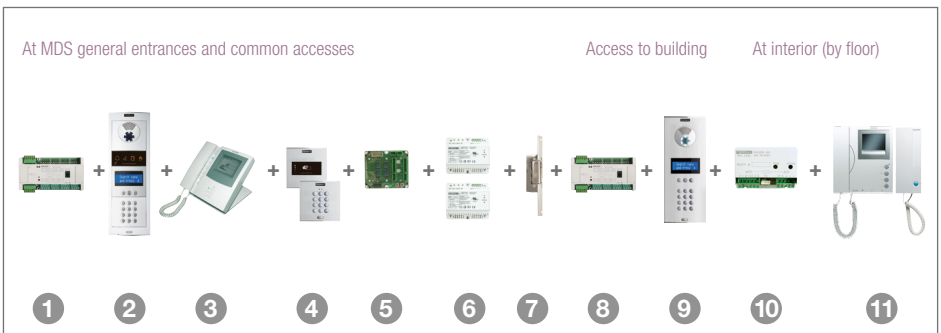
In big interior blocks with several terminals in each floor or specific functionalities are demanded, a MDS/VDS Decoder 3 is required per floor. MDS BUS in the riser and VDS cable in each floor 4: UTP CAT5, 5 WIRES or 3+COAX.
VDS telephones & monitors are required.



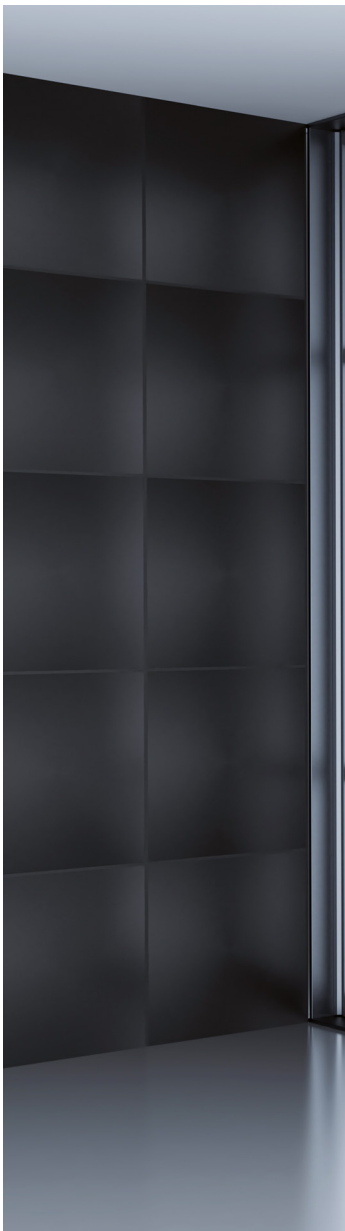
MDS/VDS Digital system with big-size interior blocks basically consist of the following elements:

COMPOSITION

1. Central Unit (up to 32 accesses)
2. MDS digital entry panel
3. Guard unit
4. Readers
5. Switcher
6. Power supply (audio+video)
7. Door lock release (VDC)
8. Central Unit (up to 32 accesses)
9. VDS entry panel
10. MDS/VDS decoder per block
11. VDS monitors and telephones



FERMAX
0006



KEYPAD
PROXIMITY
FINGERPRINT
RADIOFREQUENCY

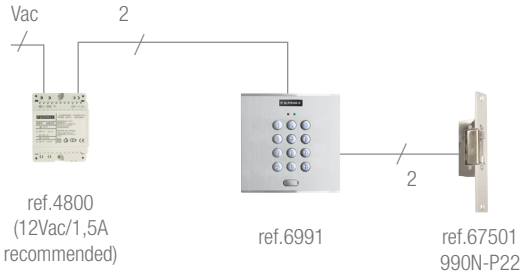
ACCESS CONTROL

STAND-ALONE

Stand-alone systems allow the control of a door or access. Recommended for offices, businesses, garages, etc.
SKYLINE readers can be integrated in audio or video door entry panels to enable access to the building for residents.

WITH INTEGRATED CONTROLLED

1. KEYPAD (MEMOKEY)



- Maximum capacity: 100 codes.
- Power supply 12Vac/12Vdc. Power supply 12Vac/1,5A (ref.4800) is recommended.
- Input for exit button on the inside.
- Input for free access button.
- 2 relay outputs (2A,NC/NA) (1 output in LOFT model) for activation of lock release and connection of alarm. Programmable time.
- Each code can activate one or two relays at the same time.
- Acoustic confirmation of acceptance/rejection of the code.
- Programming from the keypad by means of a master code.

6991 CITYLINE MEMOKEY

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

4906 CITYLINE MEMOKEY KIT

Includes reader (ref.6991) and power supply (ref.4800).

7438 SKYLINE MEMOKEY W

Accessory for SKYLINE panels.

ref.6991 ref.7438

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

4699 MARINE MEMOKEY

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

4540 LOFT MEMOKEY

Indoor. Surface mounting. Membrane keypad.
Includes a 50cm cable.

3623 LOFT MEMOKEY KIT

Includes Memokey (ref.4540) and power supply (ref.4800).

ref.4699 ref.4540

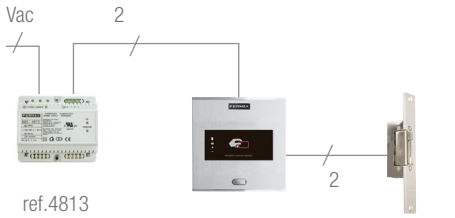
Reader dimensions ST1: 150X180
LOFT reader dimensions: 60X130

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

ACCESS CONTROL

2. PROXIMITY (PRIVATE)

- Up to 400 users. Power supply 12 Vac/12 Vdc.
  Power supply 12Vac/1,5A (ref.4800) recommended.
- Input for exit button.
- Input for door sensor.
- Relay output for activation of lock-release. Programmable time.
- Confirmation, by means of LED and sound, of acceptance or refusal of the card presented.
- Programming-assistance LEDs (activation/deactivation cards).
- Programming users by means of a master card or by PC. Free Winprox software at www.fermax.com



ref.4813
(12Vdc/2A
recommended

ref.6992

ref.67501
990N-P22

6992	CITYLINE PROXIMITY READER

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

ref.6992

7440	SKYLINE V PROXIMITY READER

Accessory for SKYLINE and CITYLINE panels.

ref.7440

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

5472	MARINE PROXIMITY READER

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

ref.5472

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

4530	LOFT PRIVATE READER

Indoor. Surface installation. Includes cable 50cm.

ref.4530

LOFT reader dim.:
60x130

IDENTIFIERS

23361	PROXIMITY CARD WITHOUT EM MAGNETIC BAND
2336	PROXIMITY CARD WITH EM MAGNETIC BAND
4515	EM PROXIMITY KEYRING

ref.23361
Customizable

ref.2336

ref.4515

ACCESSORIES

2306	PRIVATE PROGRAMMING KEYPAD
24661	PC RS-485 TO USB ADAPTOR
4813	POWER SUPPLY. 12VDC/2A

ref.2306

ref.4813

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

3. FINGERPRINT WITH PROXIMITY

ref.4800 (12Vac/1,5A recommended) ref.6935 ref.67501 990N-P22

- Biometric recognition system based on fingerprint.
- Capacity: 4.500 users in 1 fingerprint mode or 2.970 in 2 fingerprints per user mode.
- Includes a built-in proximity reader for major security or for independent register of users. It's estimated that 1% of the population cannot register in biometric systems because their fingerprint rings do not have enough information. This people may use the proximity reader.
- Includes display and LEDs indicating the door opening, user's number, if the fingerprint reading is correct or not, configuration and authorizations-cancellations menu management.

ref.6935

ref.6936

6935	CITYLINE FINGERPRINT READER	
	Exterior/Interior. Flush box include (ref.8948). Optional surface box (ref.7061).	
6936	SKYLINE FINGERPRINT READER W	
	Accessory for SKYLINE and CITYLINE panels.	
6937	CITYLINE KEYPAD/FINGERPRINT READER	
5482	MARINE FINGERPRINT READER	
	Stainless steel. Flush box included (ref.4645).	

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

Remote infrared keypad (included)

ref.6937

ref.5482

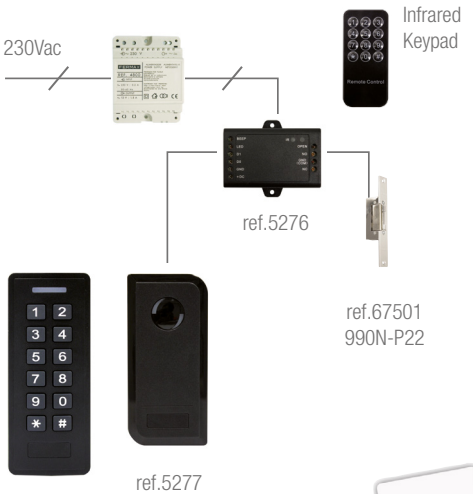
Reader dimensions ST1: 150x180

WITH EXTERNAL CONTROLLED

1. PROXIMITY AND MIFARE KEYPAD

NEW

5276	1 DOOR WG STAND-ALONE CONTROLLER	
	Up to 1000 users. Power supply 12Vdc. Programming through Master Card with "Add user" and "Erase user" or infrared keypad.	
5277	MIFARE MINI WG PROXIMITY READER	
	Allows for the reading of MIFARE and EM cards.	
5278	MINI KEYPAD WITH PROXIMITY WG	



ref.5276

ref.67501 990N-P22

ref.5278

ref.5277

ref.5275

IDENTIFIERS

5274	MIFARE PROXIMITY KEYRING
5275	MIFARE PROXIMITY CARD
23361	PROXIMITY CARD WITHOUT EM MAGNETIC BAND

ACCESS

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

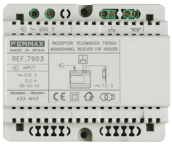
ACCESS CONTROL

2. RADIOFREQUENCY (433Mhz)

SHOP SYSTEM

7903 REMOTE CONTROL RECEIVER FOR SHOPS

Configuration by means of trinary dip-switch. Input for exit button. Relay output (2A, NO) for activation of lock-release. 230 Vac power supply. DIN6 Box. Dimensions: 105x90x60.



ref.7903

7900 COMPATIBLE SINGLE CHANNEL RECEIVER

For installation inside electronic door or video entry system outdoor panels.

ref.7900

79561 TRINARY RF EMITTER. 433Mhz

Configuration by trinary dip-switch.
A single code for all emitters.

ref.79561

SECURITY SYSTEM

The RF digital emitters have an exclusive code for each user. Recommended for garage access and remote control of devices: lights, blinds, sirens, etc.

7960 SEGURITY RF RECEIVER

10 users maximum. Input for exit button. Relay output (2A, NC/NA). Programmable time. Mono-stable/bi-stable functioning. 12Vac/12Vdc. Compact-sized dimensions, so it can be hidden in distribution boxes. Dimensions: 90x60x20.

ref.7960

24651 DIGITAL RF REMOTE CONTROL

With 1 unique code by transmitter.

ref.24651

COLLECTIVE GARAGES SYSTEM

7952 SINGLE CHANNEL RF RECEIVER. 433Mhz

Configuration by means of trinary dip-switch. Accepts a card for addition of a 2nd channel. Relay output (2 A, NC/NA). 230Vac power supply. ABS IP65 box. Dimensions: 91x198x57.

ref.7952

79561 TRINARY RF EMITTER. 433Mhz

Configuration by trinary dip-switch.
A single code for all emitters.

ref.79561

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

NEW

ADVANCE STAND-ALONE AxesKey

Cutting-edge stand-alone systems enable to manage both 868MHz emitters and 13.56Mhz AXESKEY proximity cards and keyrings. They also issue collective or individual authorizations/cancellations manually or remotely, with no need to travel to the installation site. The entire AXESKEY range connect directly via PC using the **RF-PROX USERPLUS PROGRAMMING KIT** ref.5258 for overall control of installations.

- 868Mhz frequency.
- "Rolling Code" code switching high security emitters.
- Range 100mts.
- APS Approaching System. Emitters can be triggered even when out of range or from the receiver.
- Programming manually or by programmer.
- Enables code reservations by means of UserPlus Kit, ref.5258.
- Emitters/cards can be replaced with no need to go to the installation, using the UserPlus Kit, ref.5258.
- SINGLE, DUAL (emitter + proximity dual technology) and TRI (emitter + proximity + hands-free triple technology) emitters.

SIMPLIFIED MANAGEMENT OF COMMUNITY INSTALLATIONS

By means of the User Plus programming kit, with:

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

5258 USERPLUS RF-PROX PROGRAMMING KIT

ref.5258

1. AXESKEY

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

RECEIVERS (868Mhz)

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

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

5266 WIEGAND RF RECEIVER

RF-WIEGAND interface can make your 868 MHz range compatible by means of WIEGAND output with access control system. AC Plus, Wincom Plus and IP_AXES.

ref.5250 / ref.5266

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

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

5252 AXESKEY PLUS-2 RF CONTROLLER. 230V

ref.5251 / ref.5252

ACCESS

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

ACCESS CONTROL

AXESKEY EXTRA controllers have a removable memory card for both codes and events.

5253 AXESKEY EXTRA-500 RF CONTROLLER. 230V

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

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

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

ref. 5253

ref.5254

READERS

5255 SLIM 13.56 WG/AXES PROXIMITY READER

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

ref.5255

ref.5264

5264 HANDS-FREE HF ANTENNA. 1.5MTS

Hands-free opening.

5257 SURFACE VR KEYPAD. 868MHZ

5256 FLUSH-MOUNTED VR KEYPAD. 868MHZ

Wireless keypad, lets you program up to 4 different codes to activate up to 4 independent channels.

ref.5257

ref.5256

IDENTIFIERS

5259 MINI KEYSINGLE RF EMITTER

5260 MINI KEYDUAL RF EMITTER (emitter+proximity)

5261 KEYTRI PLUS2 RF EMITTER (emitter+proximity+hands-free)

ref.5259 / ref.5260 MINI

ref.5261 PLUS

5273 HANDS-FREE HF IDENTIFIER

Includes pushbutton entry for voluntary activation and support.

5265 HANDS-FREE HF WRISTBAND. 868MHZ

ref.5273

ref.5265 HF

AXESKEY cards and keyrings provide prepay function.

5263 PROXIMITY PRE KEYRING. 13.56MHZ

5262 PROXIMITY PRE KEYCARD. 13.56MHZ

ref.5263 KEYRING

ref.5262 KEYCARD

ACCESSORIES

5267 TEMP. POT-TRO (PLUS) RELAY CARD

5268 PROG-TSA (EXTRA-500) RELAY CARD

5269 1000-EVENTS (EXTRA-500) CARD

5270 GSM (EXTRA-5K) REMOTE CARD

5271 MEMORY 500 (PLUS_BASIC) CARD

5272 MEMORY 500C (EXTRA-500) CARD

* pulse response = monostable

CENTRALIZED

The Centralised Access Control System (AC PLUS) gives an answer to complex installations with several accesses and advanced managing and automation functions. A Central Unit and a highly intuitive Windows software are required to program the installation with the PC. The connection between the PC and the installation can be direct to the installation (RS-485) or remote (IP). The data can be updated and the installation monitored from different PCs (multi-station).

CENTRALISATION

The centralisation of the system contains: Central Unit, power supply, battery and the necessary module for communications with the PC. An emergency power supply is recommended. In installations with large distances, it will be necessary to install additional power supplies at the access in order to avoid voltage drops in the cabling.

4410 AC PLUS CENTRAL UNIT

For advanced access control functions and home automation only. Each Central Unit allows:

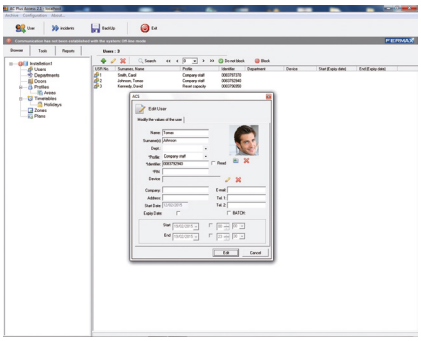
- 2.048 users.
- 32 doors. It can manage one reader to enter and another to exit.
- 64 groups of users (profiles).
- 4 special profiles without restrictions.
- 32 areas. Defines the doors to which access is permitted.
- 32 timetables. It is possible to define holidays.
- Recording of the last 3.000 incidents (entries, exits, accesses denied, alerts, etc.)
- Capable to manage 1.000 intercommunication panels/1.000 sensors/1.000 relays.

Includes 2 software PC for programming and system management:

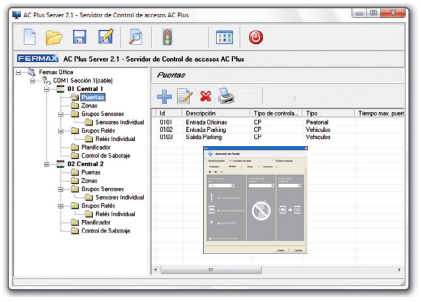
- AC PLUS SERVER. To configure the hardware (central unit, readers, decoders, etc).

- AC PLUS ACCESS. To manage the users and the restrictions.

ref.4410



Software Access



Software Server

4813 POWER SUPPLY. 12Vdc/2A. DIN6

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

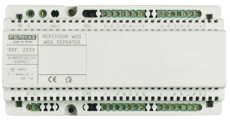
2060 BATTERY ADAPTOR. 12Vdc

Installed between the power supply and the system. It has a connector to link with an external PB-Acid battery.

2339 MDS REPEATER

Necessary for distances of over 1.200m between door controllers or decoders and the central unit. Format DIN10.

ref.4813



ref.2339

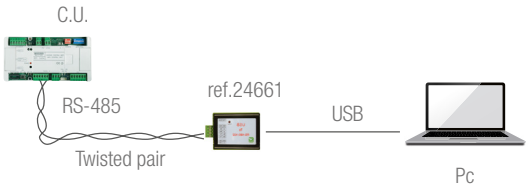
Dimensions: (width) x (height) x (depth) mm.

ACCESS CONTROL

PC CONNECTION ACCESSORIES

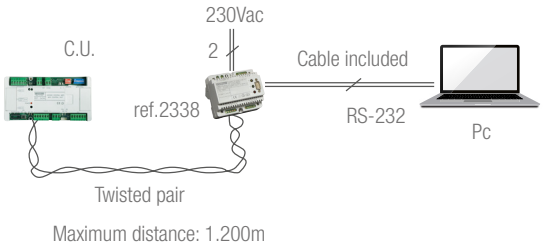
24661 USB to RS-485 PC ADAPTOR

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



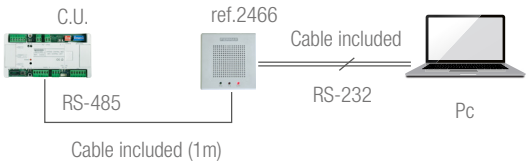
2338 RS-232 to RS-485 PC ADAPTOR

- Connection between Pc and Central Unit (or network of centrals).
- Allows for the connection of the modem to the Central Unit in case of remote management.
- Connection to PC: RS-232. Max.: 30m (cable included: 3m).
- Connection to Central: RS-485 (twisted pair). Max.: 1.200m.
- DIN6 format. Power supply: 230Vac.



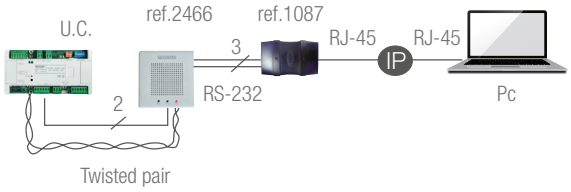
2466 PC DECODER PROGRAMMING MODULE

- Programming addresses and parameters to decoders from PC.
- Maintenance of installations that have no permanently connected PC, as an installer tool.
- Includes RS-232 cable with DB-9 connector for PC linkup.
- Includes RS-232 cable with DB-9 connector for PC connection.



1087 IP REMOTE MANAGEMENT MODULE

- Communication between management station and the installation using IT network (Ethernet), avoiding additional wiring.
- Connection to Central Unit by programmer (ref.2466).
- An IP address must be configured for network connection using the built-in software.
- Remote management via internet if allowed by protective devices (Firewall) in the IT installation (specialist staff needed to configure router for internet access).
- Power supply: 230Vac via adapter (included).
- Ethernet connection RJ4.



FIBER OPTIC ACCESSORIES

1345 FIBER OPTICS CONVERTER

Allows MDS/AC+ signals transmissions (audio, video and data) by means a fiber optic cable (monomode fiber with FC/PC connectors). Advantages: links up to 5 km, noise immunity and discharges isolation. Includes: transmitter (TX), receiver (RX) and two power supplies. It can be used in any communication point of an MDS system.

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

READERS WITH INTEGRATED CONTROLLED

6992	CITYLINE PROXIMITY READER
6994	CITYLINE AC PLUS KEYPAD
	Includes flush box S1 ref.8948: 115x114x45.
6995	CITYLINE KEYPAD/PROXIMITY READER

ref.6992

ref.6994

ref.6995

7440	SKYLINE PROXIMITY READER V
7453	SKYLINE AC PLUS + KEYPAD W
7457	SKYLINE AC PLUS + DIRECT KEYPAD W
	For access control combinations of keypad with proximity and fingerprint readers.

ref.7440

ref.7453/ref.7457

5472	MARINE PROXIMITY READER
4696	MARINE AC PLUS KEYPAD
	Flush box ST1 included (ref.4641): 130x160x55.

ref.5472

ref.4696

1065	DIGITAL RF RECEIVER
24651	DIGITAL RF EMITTER

ref.1065

ref.24651

ACCESSORIES

These controllers require an external relay to activate a lock-release with consumption greater than 500mA or inverted functioning.

2013	ADDITIONAL FUNCTIONS RELAY
3491	DIN RELAY. 12VDC/12A
2430	8 MDS/AC+ RELAY DECODER
	Secure activation of the lock-release from the inside. The 8 outputs are programmable from the software DECOWIN (free at www.fermax.com).
2429	8 MDS/AC+ SENSOR DECODER
	It handles 8 sensors: door contacts, presence, flooding... The 8 inputs are programmable from the software DECOWIN (free at www.fermax.com).

ref.2013

ref.2430

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

ACCESS CONTROL

READERS WITH EXTERNAL CONTROLLER

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

4420	DOOR CONTROLLER

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

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

6992	CITYLINE PROXIMITY READER
6995	CITYLINE PROXIMITY/KEYPAD READER

7440	SKYLINE PROXIMITY READER V
5472	MARINE PROXIMITY READER

4560	LOFT WIEGAND PROXIMITY READER
4550	LOFT WIEGAND PROXIMITY/KEYPAD READER

5266	AXESKEY RF-WIEGAND RECEIVER. 12VDC
5277	MIFARE WIEGAND MINI PROXIMITY READER

Allows for the reading of MIFARE and EM cards.

ref.4420

ref.6992
S1: 130x128
Box ref.8948

ref.6995
S4: 130x199
Box ref.8854

ref.6936

ref.6935

ref.6937
S5: 130x246
Box ref.8855

ref.5482
ST1: 150x180
Box ref.4641

ref.7440

ref.5472
ST1: 150x180
Box ref.4641

ref.4560/ref.4550
60x130
Surface

ref.5266

ref.5277

IDENTIFIERS

23361	PROXIMITY CARD WITH EM MAGNETIC BAND
2336	PROXIMITY CARD WITHOUT EM MAGNETIC BAND
4515	EM PROXIMITY KEYRING
5274	MIFARE PROXIMITY KEYRING
5275	MIFARE PROXIMITY CARD
5259	MINI KEYSINGLE RF EMITTER

ref.23361
Custom it

ref.2336

ref.4515

ref.5259

ACCESS

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

NEW

ADVANCE CENTRALIZED

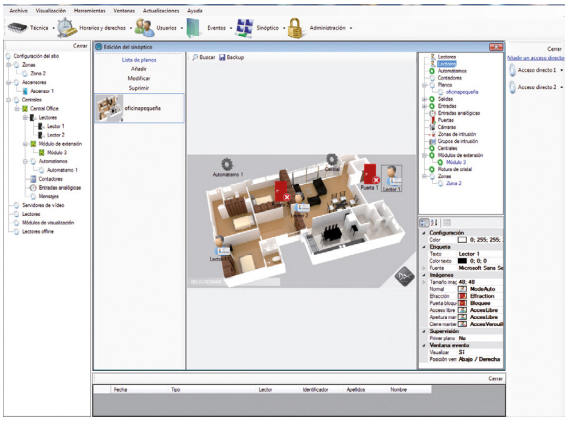
IP Axes FERMAX ACCESS CONTROL SYSTEM

IP AXES

The IP_AXES Access Control system is suitable for both centralized and distributed systems thanks to the IP_AXES 1/2 central controller, which can connect up to 42 readers with S-BUS, WIEGAND and Clock&Data protocols with the same integrated IP address on the computer.

- 15.000 users and 15.000 events.
- 128 time zones.
- 64 IP_AXES 1/2 Controllers in a single installation.
- Extensions by RS-485 up to 10 expansion modules, which can be:
  -IP_AXES 4 expansion module up to 4 doors.
  -IP_AXES I/O expansion module with 8 sensor inputs and 8 relay outputs.

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



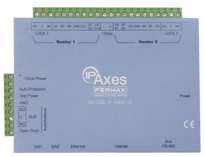
- Installation and user creation wizard.
- Databases: Access and SQL Server.
- Local anti-passback (OFFLINE and ONLINE) / global (ONLINE).
- Discounting.
- E-Mail alert sending.
- Guest management.
- Automatic devices.
- Elevator management.
- Enables real-time site map viewing/remote control for status of: doors, readers, analogue entrances, exits and counters.
- Automatic IP address detection.
- Voice messages.
- Self-learning cards and identifiers.
- Manual and graphic entry of time slots and holidays. 10 time slots per day. Holiday periods list.
- Multiple identifiers per user.
- Creation of direct accesses and automatic systems.
- Additional licences are required for more than 2 readers, depending on the number of readers in the installation.
- Present user management.
- Presence time. Total hours per user.

ACCESS

CENTRAL

5280 IP_AXES 1/2 CENTRAL CONTROLLER

Central controller allows to the connection of one or two doors with WIEGAND readers and extension up to 10 expansion modules by RS-485, maximum distance 750mts. Requires 12Vdc power supply, ref.4813. Power supply 12Vdc/2A recommended. Dimensions: 160(W)x120(H)x30(D)mm.



ref.5280

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

ACCESS CONTROL

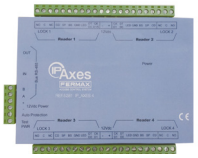
EXPANDERS

5281 IP_AXES 4 EXPANSION

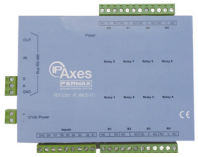
4-door extension module. Requires 12Vdc power supply, ref. 4813 recommended. Dim.: 160(W)x120(H)x30(D)mm.

5282 IP_AXES I/O EXPANSION

Extension module for 8 inputs and 8 outputs. Recommended for lift management. 8 levels per module. Dimensions: 160(W)x120(H)x30(D)mm.



ref.5281



ref.5282

POWER SUPPLY

4813 POWER SUPPLY. 12Vdc/2A. DIN6

1 power supply ref.4813 for each 6 accesses or central unit ref.5280.

2060 EMERGENCY BATTERY ADAPTOR. 12VDC

ref.4813

ref.2060

LICENCES

Necessary for installations of more than 2 readers.

5283 10 READERS IP_AXES LICENCE

5284 40 READERS IP_AXES LICENCE

5285 80 READERS IP_AXES LICENCE

5286 140 READERS IP_AXES LICENCE

READERS

5255 13.56 WG / AXES SLIM PROXIMITY READER

5277 MIFARE WG MINI PROXIMITY READER

5278 KEYPAD WITH MIFARE WG MINI PROXIMITY

ref.5255

ref.5277

ref.5278

RECEIVERS

5266 AXESKEY RF-WIEGAND 12VDC RECEIVER

ref.5266

IDENTIFIERS

Compatible with all readers:

5274 MIFARE PROXIMITY KEYRING

5275 MIFARE PROXIMITY CARD

5259 KEYSINGLE MINI RF EMITTER

Compatible only with SLIM readers:

5260 MINI KEYDUAL RF EMITTER

5263 PROXIMITY PRE KEYRING. 13.56MHZ

5262 PROXIMITY PRE CARD. 13.56MHZ

ref.5275

ref.5259 / ref.5260
MINI

ref.5263
KEYRING

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

PROJECTS
DIAGRAMS
APPLICATION FORM

TECHNICAL INFO

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	AMPLI. MODULE	PUSH BUTTON MODULES			BLANK MO-DULES		POWER SUPPLY	POWER SUPPLY	FILTER	LINE ADAPTOR	COLOUR MONITOR	CON-NECTOR
Nº APAR.	SERIES	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	VÍDEO 7391	201 7376	202 7372	204 7371	V 7442	2V 7443	ref. 4812	ref. 4830	ref. 3244	ref. 3255	ref. 9405	ref. 9406
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		1	2	6	6
8	S5			1	1											1			1			1		1	2	8	8
10	S6					1	1									1	1		1			1		1	2	10	10
12	S6					1	1									1		1	1			1		1	2	12	12
14	S7							1	1							1	1	1	1			1		1	2	14	14
16	S7							1	1							1			2			1		1	2	16	16
18	S8									1	1					1	1		2			1		1	2	18	18
20	S8									1	1					1		1	2			1		1	2	20	20
22	S9											1	1			1	1	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	1	2	2	1			1	1	2	26	26
28	S6					2	2							1	1	1		1	3	1			1	1	2	28	28
30	S6					2	2							1	1	1	1	1	3				1	1	2	30	30
32	S6					2	2							1	1	1		2	3				1	1	2	32	32
32	S7							2	2					1	1	1			4		1		1	1	2	32	32
34	S7							2	2					1	1	1	1		4	1			1	1	2	34	34
36	S7							2	2					1	1	1		1	4	1			1	1	2	36	36
38	S7							2	2					1	1	1	1	1	4				1	1	2	38	38
40	S7							2	2					1	1	1			5				1	1	2	40	40

If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1,5A) is required. Universal lock release ref.67501 - 990N-P22MAX.

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	LOFT TELEPHONE	CIYMAX TELEPHONE
Nº APAR.	SERIES	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	AUDIO ref.7390	201 ref.7376	202 ref.7372	204 ref.7371	V ref.7442	2V ref.7443	ref. 4812	ref. 3244	ref. 3255	ref. 3421	ref. 3425
2	S4	1	1													1	1					1	1	1	2	2
4	S4	1	1													1		1				1	1	1	4	4
6	S5			1	1											1	1	1				1	1	1	6	6
8	S5			1	1											1			1			1	1	1	8	8
10	S6					1	1									1	1		1			1	1	1	10	10
12	S6					1	1									1		1	1			1	1	1	12	12
14	S7							1	1							1	1	1	1			1	1	1	14	14
16	S7							1	1							1			2			1	1	1	16	16
18	S8									1	1					1	1		2			1	1	1	18	18
20	S8									1	1					1		1	2			1	1	1	20	20
22	S9											1	1			1	1	1	2			1	1	1	22	22
24	S9											1	1			1			3			1	1	1	24	24
24	S5			2	2									1	1	1			3			1	1	1	24	24
26	S6					2	2							1	1	1	1	2	2	1		2	2	1	26	26
28	S6					2	2							1	1	1		1	3	1		2	2	1	28	28
30	S6					2	2							1	1	1	1	1	3			2	2	1	30	30
32	S6					2	2							1	1	1		2	3			2	2	1	32	32
32	S7							2	2					1	1	1			4		1	2	2	1	32	32
34	S7							2	2					1	1	1	1		4	1		2	2	1	34	34
36	S7							2	2					1	1	1		1	4	1		2	2	1	36	36
38	S7							2	2					1	1	1	1	1	4			2	2	1	38	38
40	S7							2	2					1	1	1			5			2	2	1	40	40

If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1,5A) is required. Universal lock release ref.67501 - 990N-P22MAX.

CITYLINE PANEL													
		PANEL	FLUSH BOX	PANEL	FLUSH BOX	JOINING BOLTS	EXTENSION MODULE	POWER SUPPLY	POWER SUPPLY	FILTER	LINE ADAPTOR	MONITOR VEO	CONNECTOR
Nº APA.	SERIES	REF.	REF.	REF.	REF.	REF. 8829	REF. 2441	REF. 4812	REF. 4830	REF. 3244	REF. 3255	REF. 9405	REF. 9406
4	S2	70018	8852				1 (2008)	1		1	2	4	4
6	S3	70028	8853				1 (2008)	1		1	2	6	6
8	S4	70048	8854				1 (2008)	1		1	2	8	8
10	S5	70128	8855				1	1		1	2	10	10
12	S5	70138	8855				1	1		1	2	12	12
14	S6	70228	8856				1	1		1	2	14	14
16	S6	70238	8856				1	1		1	2	16	16
18	S7	70328	8857				1	1		1	2	18	18
20	S7	70338	8857				2	1		1	2	20	20
22	S8	71148	8858				2	1		1	2	22	22
24	S8	71158	8858				2	1		1	2	24	24
26	S9	71628	8982				2		1	1	2	26	26
28	S9	71638	8982				2		1	1	2	28	28
30	S6	70228	8856	7268	8856	1	2		1	1	2	30	30
32	S6	70238	8856	7268	8856	1	2		1	1	2	32	32
34	S6	70238	8856	7027	8856	1	2		1	1	2	34	34
36	S7	70328	8857	7031	8857	1	3		1	1	2	36	36
38	S7	70328	8857	7040	8857	1	3		1	1	2	38	38
40	S7	70338	8857	7040	8857	1	3		1	1	2	40	40

If an Ac electric lock release is used, an additional power supply (ref.4800 - 12Vac/1,5A) or an AC electric lock commander (ref.3264) are required. Universal lock release ref.67501 - 990N-P22MAX.

VDS VIDEO. SKYLINE

SKYLINE PANEL																
Nº APART.	SERIES		FRAME REF.	FLUSH BOX	JOI-NING	CA-BLE	VIDEO COL.	201	202	204	BLANK MOD. V	BLANK MOD. W	POWER SUPPLY	DISTR. 4 WAYS	MONITOR	CONNEC-TOR
					REF. 8829	REF. 2541	REF. 7421	REF. 7376	REF. 7372	REF. 7371	REF. 7442	REF. 7443	REF. 4830	REF. 2449	REF.3311 B/W REF.3305 COL.	REF. 3314
2	S4	3V	7333	8854			1	1					1		2	2
4	S4	3V	7333	8854			1		1				1	1	4	4
6	S5	4V	7334	8855			1	1	1				1	2	6	6
8	S5	4V	7334	8855			1			1			1	2	8	8
10	S6	5V	7335	8856			1	1		1			1	3	10	10
12	S6	5V	7335	8856			1		1	1			1	3	12	12
14	S7	6V	7336	8857			1	1	1	1			1	4	14	14
16	S7	6V	7336	8857			1			2			1	4	16	16
18	S8	7V	7337	8858			1	1		2			1	5	18	18
20	S8	7V	7337	8858			1		1	2			1	5	20	20
22	S9	8V	7338	8982			1	1	1	2			1	6	22	22
24	S9	8V	7338	8982			1			3			1	6	24	24
24	S5	4V	7334^{X2}	8855^{X2}	1	1	1			3			1	6	24	24
26	S6	5V	7335^{X2}	8856^{X2}	1	1	1	1	2	2	1		1	7	26	26
28	S6	5V	7335^{X2}	8856^{X2}	1	1	1		1	3	1		1	7	28	28
30	S6	5V	7335^{X2}	8856^{X2}	1	1	1	1	1	3			1	8	30	30
32	S6	5V	7335^{X2}	8856^{X2}	1	1	1		2	3			1	8	32	32
32	S7	6V	7336^{X2}	8857^{X2}	1	1	1			4		1	1	8	32	32
34	S7	6V	7336^{X2}	8857^{X2}	1	1	1	1		4	1		1	9	34	34
36	S7	6V	7336^{X2}	8857^{X2}	1	1	1		1	4	1		1	9	36	36
38	S7	6V	7336^{X2}	8857^{X2}	1	1	1	1	1	4			1	10	38	38
40	S7	6V	7336^{X2}	8857^{X2}	1	1	1			5			1	10	40	40

*NOTE: If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1,5A) or an AC electric lock commander (ref.3264) are required. There are two distributor models, 2 and 4 ways, that can be combined in an installation. X2 = Order 2 units of the indicated reference.

Nº APART.=Nº APARTMENTS

SKYLINE PANEL														
Nº APART.	SERIES		FRAME REF.	FUSH BOX	JOINING BOLTS	CABLE	AMPLI.	201	202	204	BLANK MODULE V	BLANK MODULE W	POWER SUPPLY	TELEPHONE
					REF. 8829	REF. 2541	REF. 7415	REF. 7376	REF. 7372	REF. 7371	REF. 7442	REF. 7443	REF. 4830	REF. 3390
2	S4	3V	7333	8854			1	1					1	2
4	S4	3V	7333	8854			1		1				1	4
6	S5	4V	7334	8855			1	1	1				1	6
8	S5	4V	7334	8855			1			1			1	8
10	S6	5V	7335	8856			1	1		1			1	10
12	S6	5V	7335	8856			1		1	1			1	12
14	S7	6V	7336	8857			1	1	1	1			1	14
16	S7	6V	7336	8857			1			2			1	16
18	S8	7V	7337	8858			1	1		2			1	18
20	S8	7V	7337	8858			1		1	2			1	20
22	S9	8V	7338	8982			1	1	1	2			1	22
24	S9	8V	7338	8982			1			3			1	24
24	S5	4V	7334^{x2}	8855^{x2}	1	1	1			3			1	24
26	S6	5V	7335^{x2}	8856^{x2}	1	1	1	1	2	2	1		1	26
28	S6	5V	7335^{x2}	8856^{x2}	1	1	1		1	3	1		1	28
30	S6	5V	7335^{x2}	8856^{x2}	1	1	1	1	1	3			1	30
32	S6	5V	7335^{x2}	8856^{x2}	1	1	1		2	3			1	32
32	S7	6V	7336^{x2}	8857^{x2}	1	1	1			4		1	1	32
34	S7	6V	7336^{x2}	8857^{x2}	1	1	1	1		4	1		1	34
36	S7	6V	7336^{x2}	8857^{x2}	1	1	1		1	4	1		1	36
38	S7	6V	7336^{x2}	8857^{x2}	1	1	1	1	1	4			1	38
40	S7	6V	7336^{x2}	8857^{x2}	1	1	1			5			1	40

*NOTE: If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1,5A) or an AC electric lock commander (ref.3264) are required. There are two distributor models, 2 and 4 ways, that can be combined in an installation. X2 = Order 2 units of the indicated reference.

A 12Vac electrical lock release is required (ref.30711).

SKYLINE PANEL													
		FRAME REF.	FLUSH BOX	JOINING BOLTS	CABLE	AMPLIFIER	201	202	204	BLANK MODULE V	BLANK MODULE W	POWER SUPPLY	TELEPHONE
Nº APART.	SERIES			REF. 8829	REF. 2540	REF. 7400	REF. 7374	REF. 7370	REF. 7369	REF. 7442	REF. 7443	REF. 4800	REF. 3393
2	S4	7333	8854			1	1					1	2
4	S4	7333	8854			1		1				1	4
6	S5	7334	8855			1	1	1				1	6
8	S5	7334	8855			1			1			1	8
10	S6	7335	8856			1	1		1			1	10
12	S6	7335	8856			1		1	1			1	12
14	S7	7336	8857			1	1	1	1			1	14
16	S7	7336	8857			1			2			1	16
18	S8	7337	8858			1	1		2			1	18
20	S8	7337	8858			1		1	2			1	20
22	S9	7338	8982			1	1	1	2			1	22
24	S9	7338	8982			1			3			1	24
24	S5	7334^{x2}	8855^{x2}	1	1	1			3			1	24
26	S6	7335^{x2}	8856^{x2}	1	1	1	1	2	2	1		1	26
28	S6	7335^{x2}	8856^{x2}	1	1	1		1	3	1		1	28
30	S6	7335^{x2}	8856^{x2}	1	1	1	1	1	3			1	30
32	S6	7335^{x2}	8856^{x2}	1	1	1		2	3			1	32
32	S7	7336^{x2}	8857^{x2}	1	1	1			4		1	1	32
34	S7	7336^{x2}	8857^{x2}	1	1	1	1		4	1		1	34
36	S7	7336^{x2}	8857^{x2}	1	1	1		1	4	1		1	36
38	S7	7336^{x2}	8857^{x2}	1	1	1	1	1	4			1	38
40	S7	7336^{x2}	8857^{x2}	1	1	1			5			1	40

CITYLINE CLASSIC PANEL					
		PANEL	FLUSH BOX	POWER SUPPLY	TELEPHONE
Nº APART.	SERIES			ref.4800	ref.3393
1	S1	8500	8851	1	1
2	S1	8501	8851	1	2
3	S3	8560	8853	1	3
4	S2	8532	8852	1	4
5	S5	8622	8855	1	5
6	S3	8562	8853	1	6
8	S4	8591	8854	1	8
10	S5	8620	8855	1	10
12	S5	8621	8855	1	12
14	S6	8660	8856	1	14
16	S6	8661	8856	1	16
18	S7	8700	8857	1	18
20	S7	8701	8857	1	20
22	S8	8740	8858	1	22
24	S8	8741	8858	1	24
26	S9	8072	8982	1	26
28	S9	8073	8982	1	28

A 12Vac electrical lock release is required (ref.30711).

DUOX VIDEO. 1/W KIT

2 wires DUOX

- P1 DUOX CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501)*.
- A1 Power supply 18Vdc + 12Vac (ref.4812).
- D1 DUOX filter (ref.3244).
- M1 DUOX LOFT monitor (ref.3412).
- L1 Line adaptor (ref.3255).

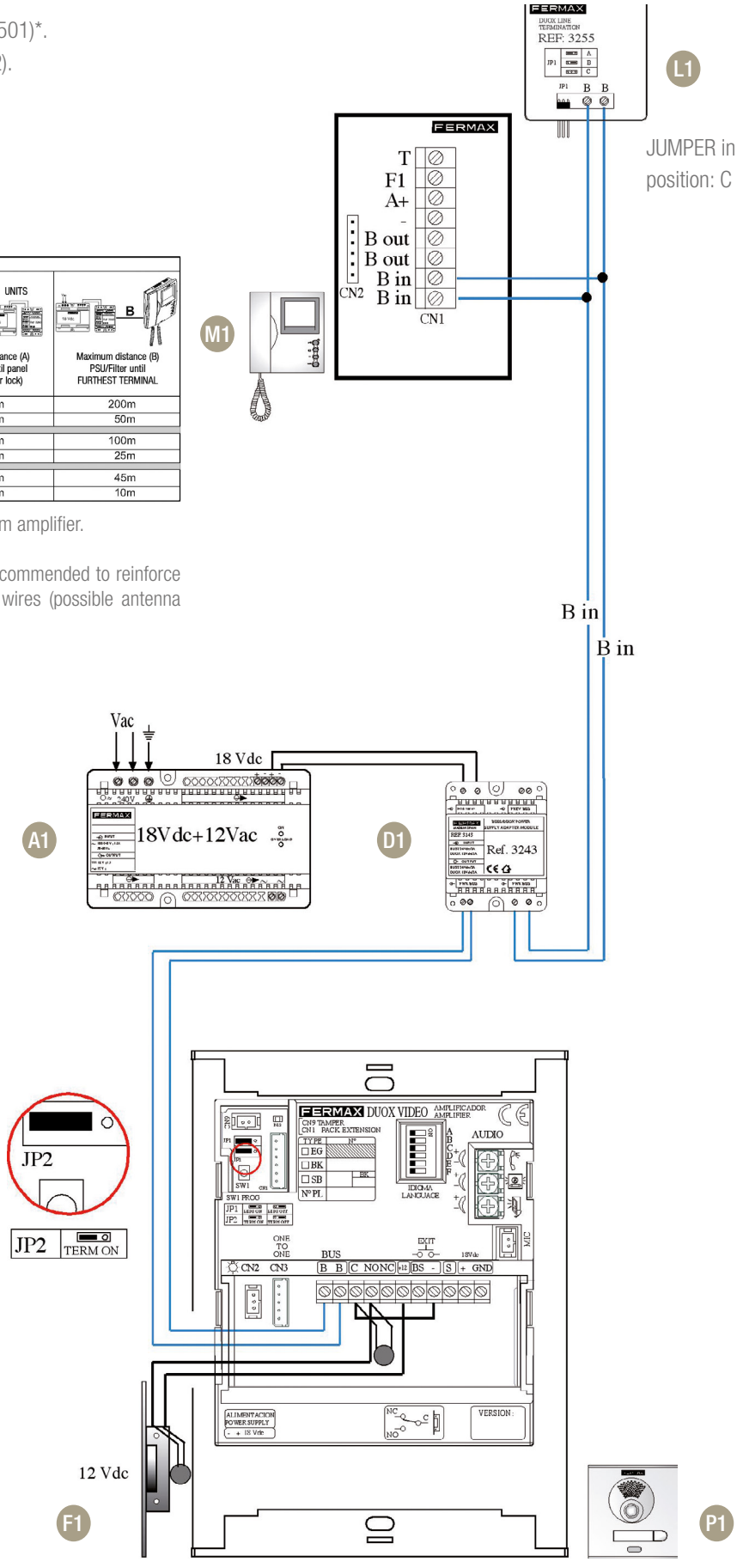
*Not included in kit.

1/W AND 2/W DUOX VIDEO KIT INSTALLATION

SECTION CABLE	UNITS TERMINALS per home without additional PSU	Maximum distance (A) PSU/Filter until panel (panel+door lock) (i)	Maximum distance (A) PSU/Filter until panel (without door lock)	Maximum distance (B) PSU/Filter until FURTHEST TERMINAL
2 x 1 mm²	1	50m	90m	200m
	2 / 3	30m	70m	50m
2 x 0,5 mm²	1	20m	60m	100m
	2 / 3	15m	30m	25m
2 x 0,2 mm²	1	10m	20m	45m
	2 / 3	5m	15m	10m

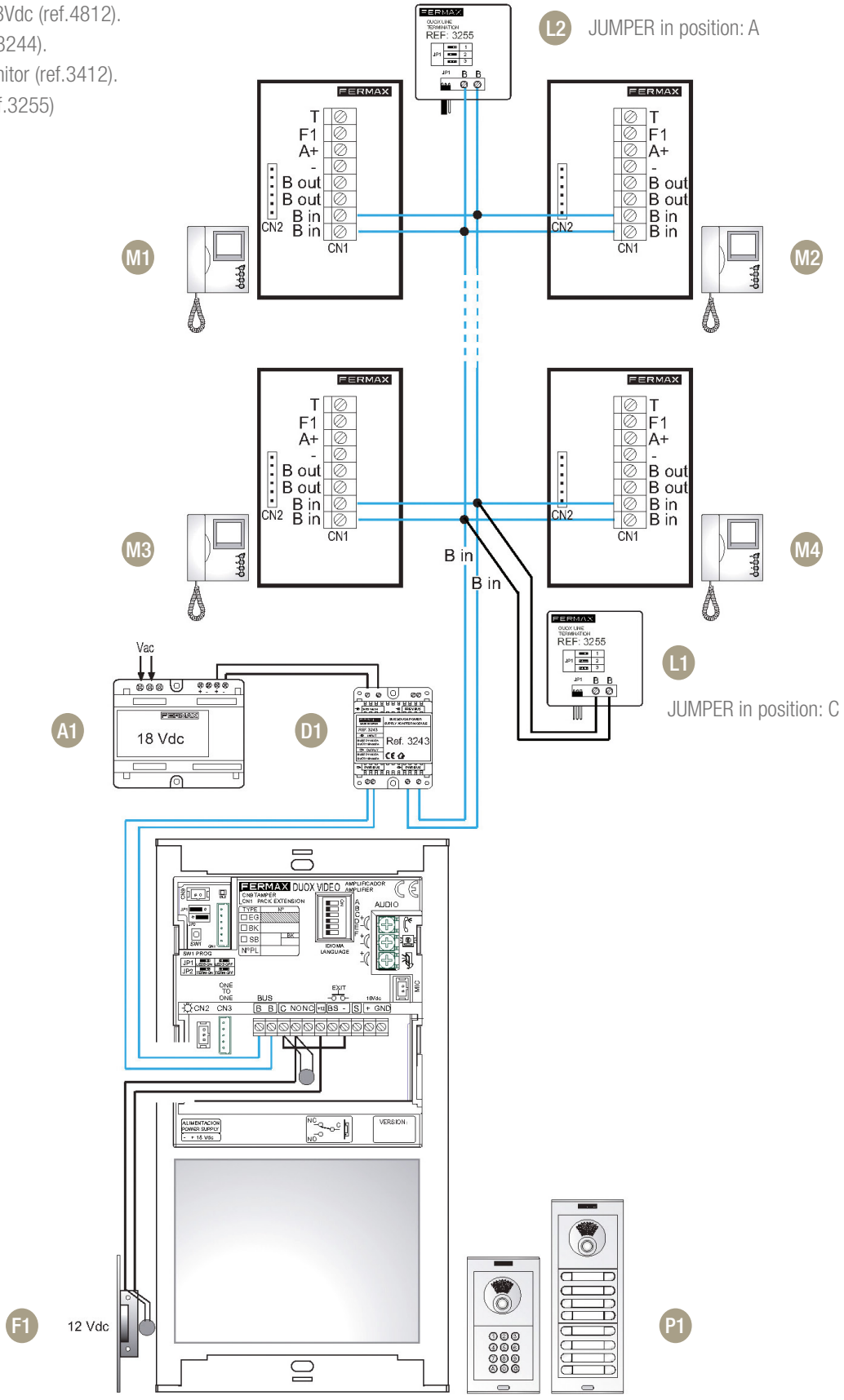
(i) For 12 Vdc door lock max. 250mA supplied from amplifier.

In case of existing spare wires in same slope, recommended to reinforce the 2 bus wires instead of remaining as loose wires (possible antenna effect)



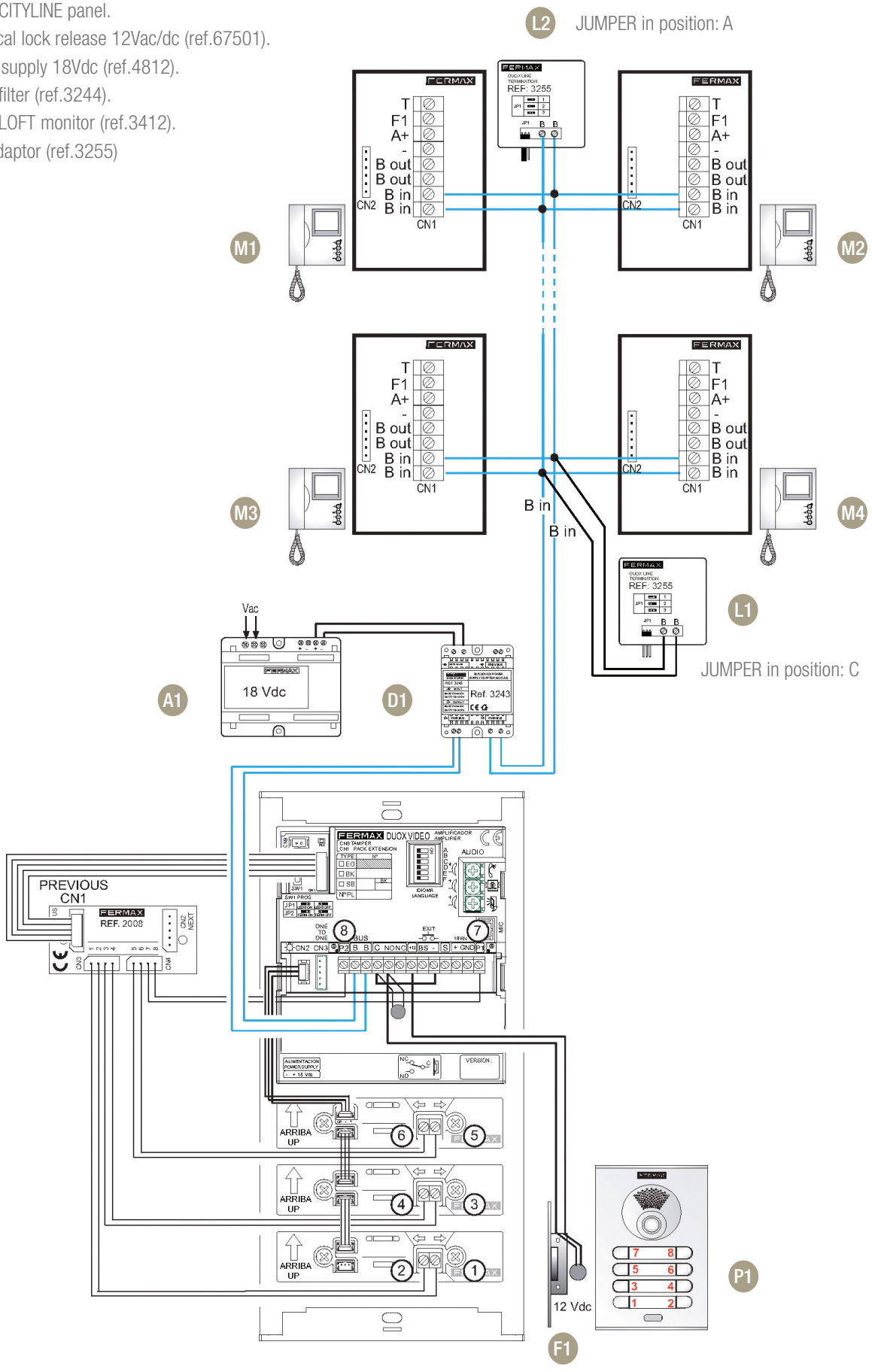
1 ACCES DUOX VIDEO WITH SKYLINE PANEL. INSTALLATION: 2 WIRES

- P1 DUOX SKYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4812).
- D1 DUOX filter (ref.3244).
- M1 M2 DUOX LOFT monitor (ref.3412).
- L1 L2 Line adaptor (ref.3255)



1 ACCES DUOX VIDEO WITH CITYLINE PANEL. INSTALLATION: 2 WIRES

- P1 DUOX CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4812).
- D1 DUOX filter (ref.3244).
- M1 M2 DUOX LOFT monitor (ref.3412).
- L1 L2 Line adaptor (ref.3255)

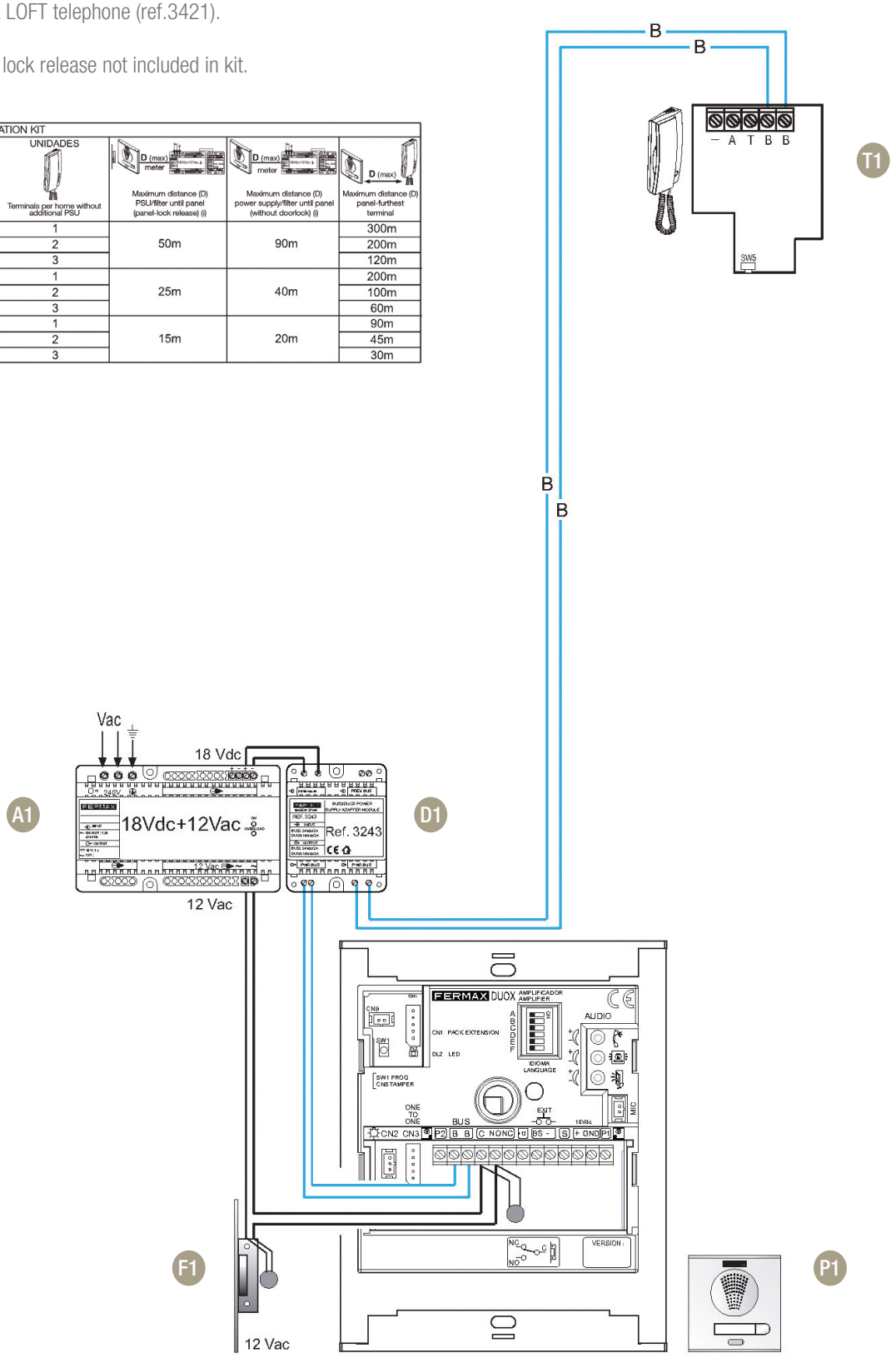


- P1 DUOX CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501)*.
- A1 Power supply 18Vdc + 12Vac (ref.4810).
- D1 DUOX filter (ref.3244).
- T1 DUOX LOFT telephone (ref.3421).

*Electrical lock release not included in kit.

AUDIO INSTALLATION KIT

CABLE SECTION	UNIDADES Terminals per home without additional PSU	Maximum distance (D) PSU/filter until panel (panel-lock release) (i)	Maximum distance (D) power supply/filter until panel (without doorlock) (i)	Maximum distance (D) panel-furthest terminal
2 x 1 mm²	1	50m	90m	300m
	2			200m
	3			120m
2 x 0,5 mm²	1	25m	40m	200m
	2			100m
	3			60m
2 x 0,2 mm²	1	15m	20m	90m
	2			45m
	3			30m



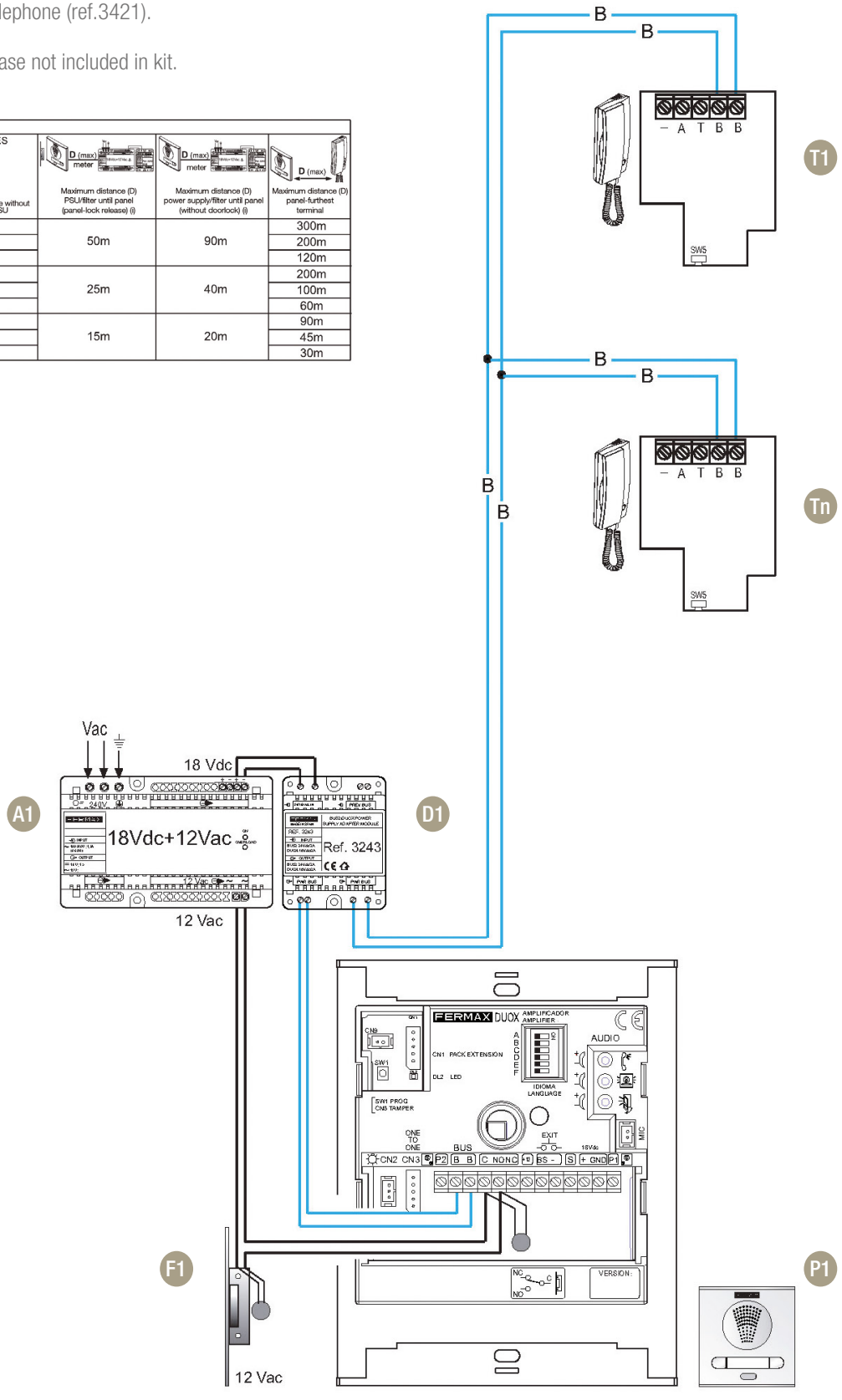
DUOX AUDIO. 2/W KIT

2 wires DUOX

- P1 DUOX CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501)*.
- A1 Power supply 18Vdc + 12Vac (ref.4810).
- D1 DUOX filter (ref.3244).
- T1 DUOX LOFT telephone (ref.3421).

*Electrical lock release not included in kit.

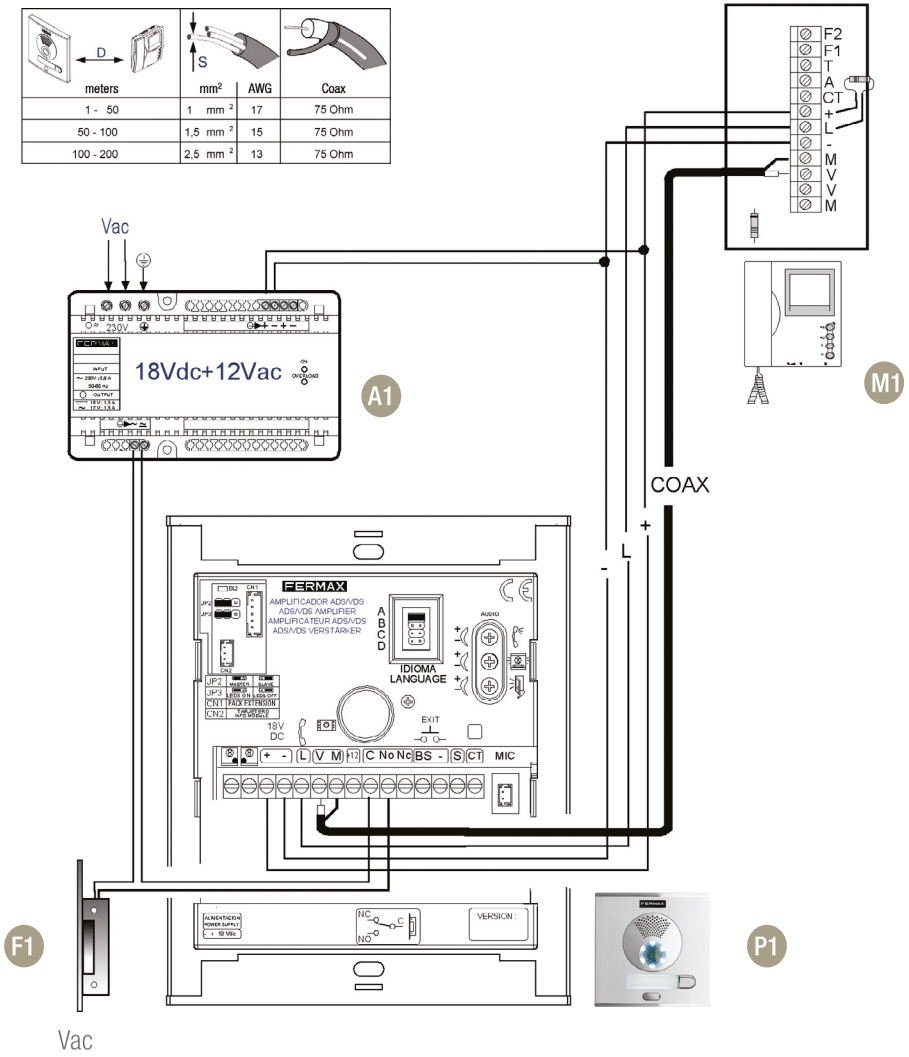
AUDIO INSTALLATION KIT				
CABLE SECTION	UNIDADES Terminals per home without additional PSU	Maximum distance (D) PSU/filter until panel (panel-lock release) (i)	Maximum distance (D) power supply/filter until panel (without doorlock) (i)	Maximum distance (D) panel-furthest terminal
2 x 1 mm²	1	50m	90m	300m
	2			200m
	3			120m
2 x 0,5 mm²	1	25m	40m	200m
	2			100m
	3			60m
2 x 0,2 mm²	1	15m	20m	90m
	2			45m
	3			30m



VDS VIDEO KIT. INSTALLATION: 3+COAX

- P1 CITYLINE kit panel.
- F1 Electrical lock release 12Vac/dc (ref.67501)*.
- A1 Power supply 18Vdc/12Vac (ref.4810).
- M1 LOFT monitor (B/W ref.3311 or COLOUR ref.3305) + Connector (ref.3314).

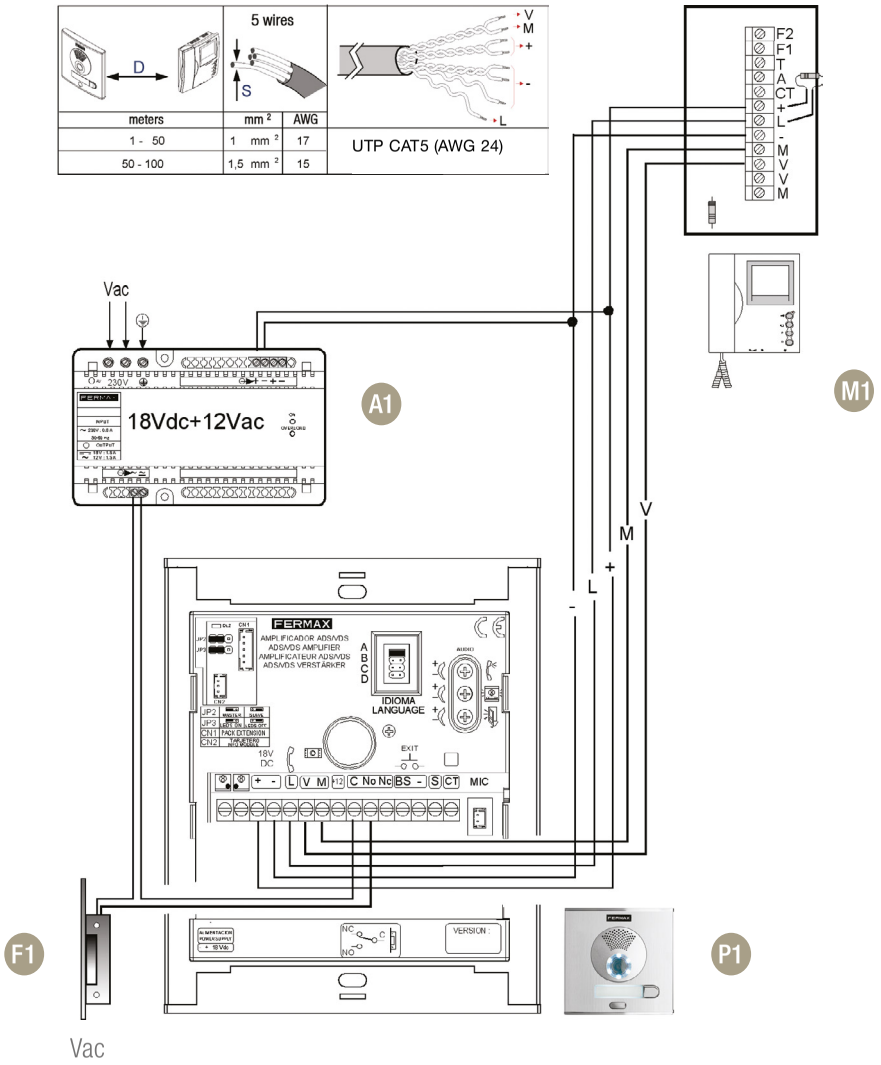
* Lock release not included in kit.



VDS VIDEO KIT. INSTALATION: 5 WIRES / UTP CAT5

- P1 CITYLINE kit panel.
- F1 Electrical lock release 12Vac/dc (ref.67501)*.
- A1 Power supply 18Vdc/12Vac (ref.4810).
- M1 LOFT monitor (B/W ref.3311 or COLOUR ref.3305) + Connector (ref.3314).

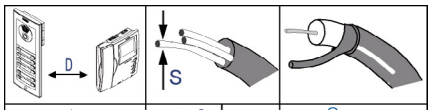
* Lock release not included in kit.



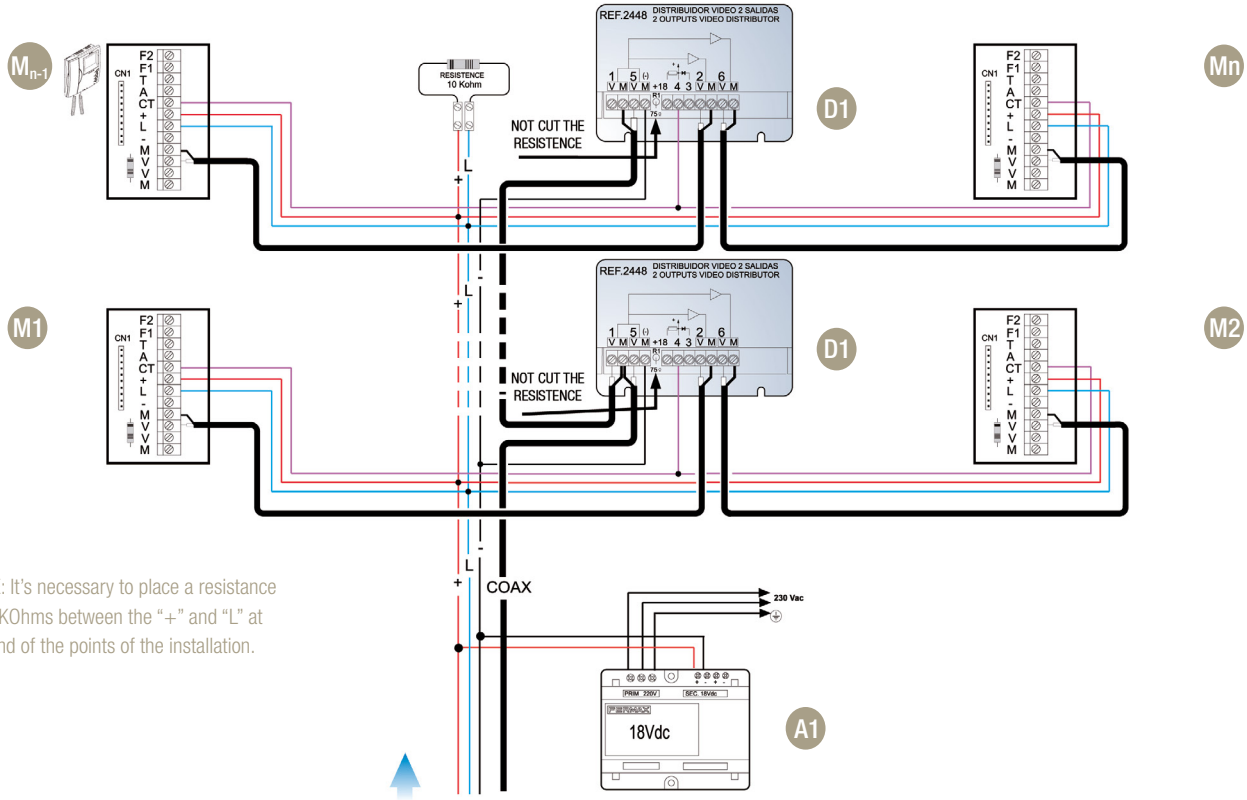
VDS VIDEO. SKYLINE / CITYLINE

1 ACCESS VDS VIDEO WITH SKYLINE/CITYLINE PANEL. INSTALLATION: 3+COAX

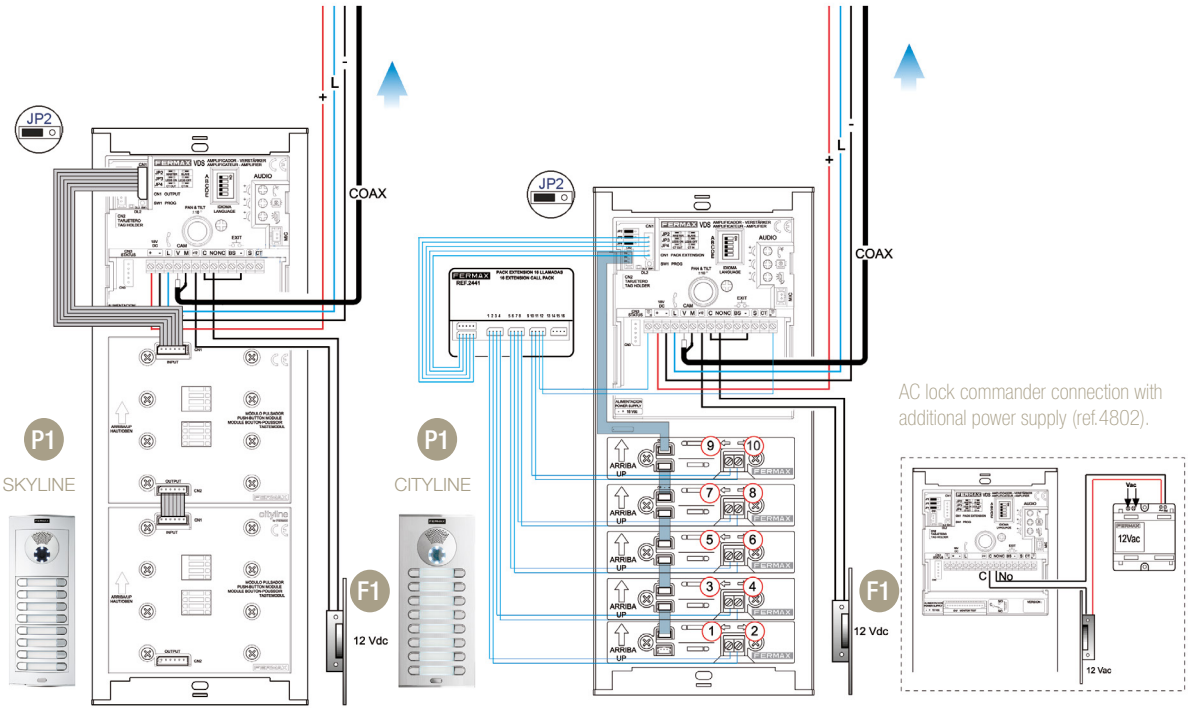
- P1 SKYLINE/CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4830).
- D1 2 ways video distributor (ref.2448).
- M1 LOFT monitor (B/W ref.3311 or Colour ref.3305)+VDS connector ref.3314



meters	mm ²	AWG	Coax
1 - 50	1 mm ²	17	75 Ohm
50 - 100	1,5 mm ²	15	75 Ohm
100 - 200	2,5 mm ²	13	75 Ohm



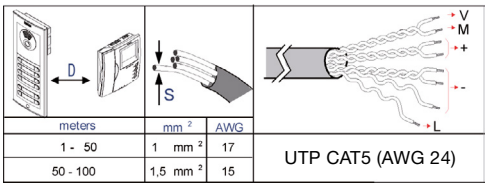
NOTE: It's necessary to place a resistance of 10KOhms between the "+" and "L" at the end of the points of the installation.



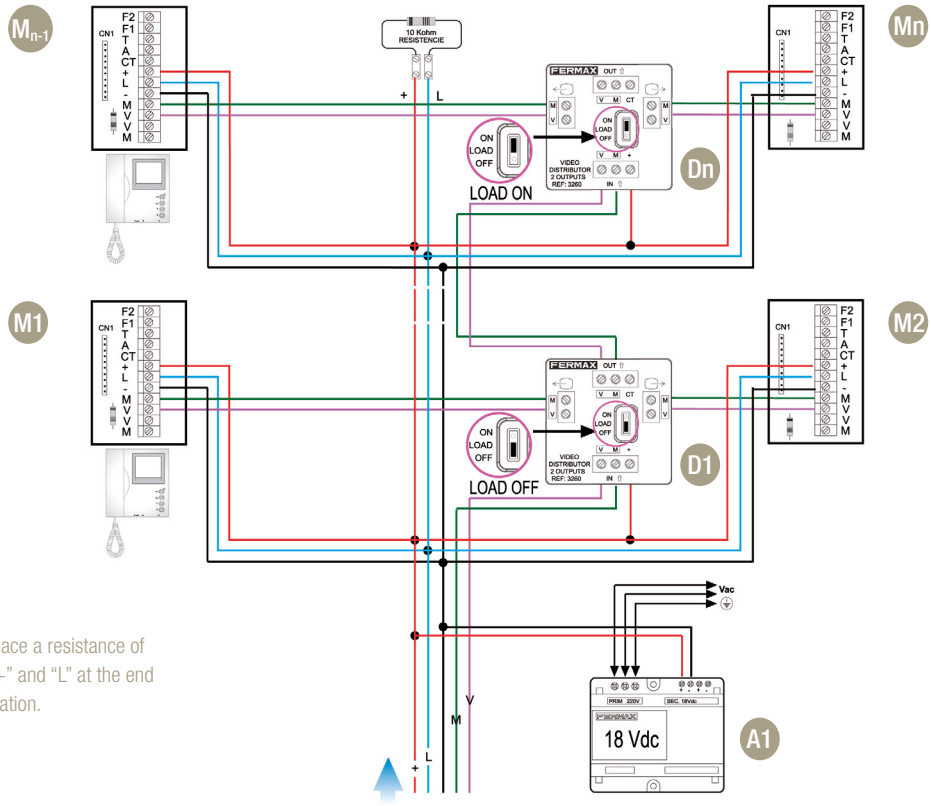
TECH. INFO

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

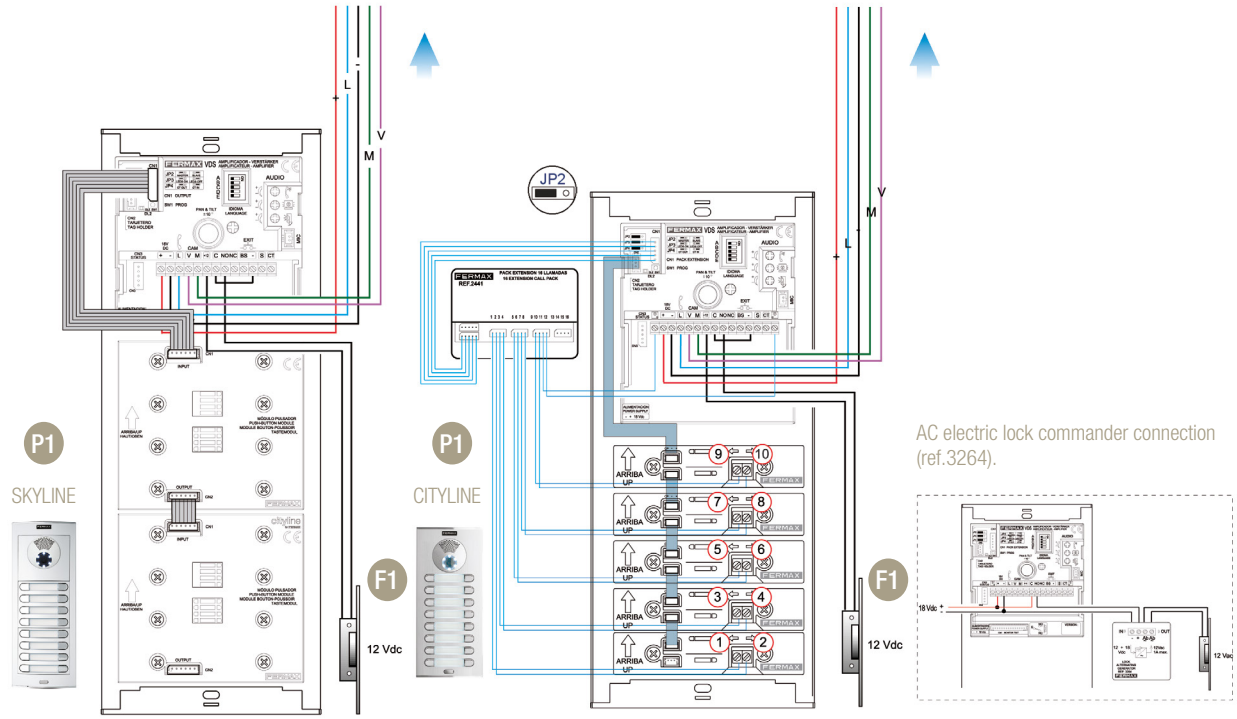
- P1 SKYLINE/CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4830).
- D1 2 ways video Minidistributor (ref.3260).
- M1 LOFT monitor (B/W ref.3311 or Colour ref.3305)+ VDS Connector (ref.3314)



meters	mm ²	AWG	
1 - 50	1 mm ²	17	UTP CAT5 (AWG 24)
50 - 100	1,5 mm ²	15	



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

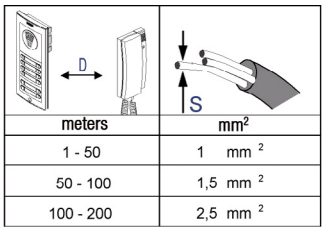


AC electric lock commander connection (ref.3264).

VDS AUDIO. SKYLINE/CITYLINE

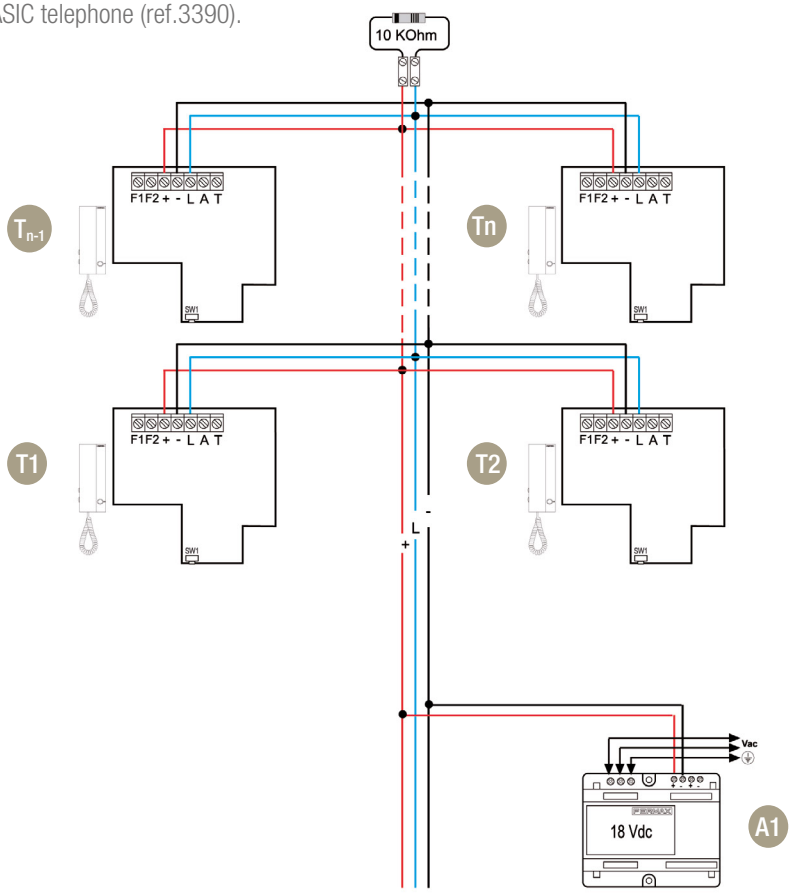
1 ACCESS VDS AUDIO WITH SKYLINE/CITYLINE PANEL

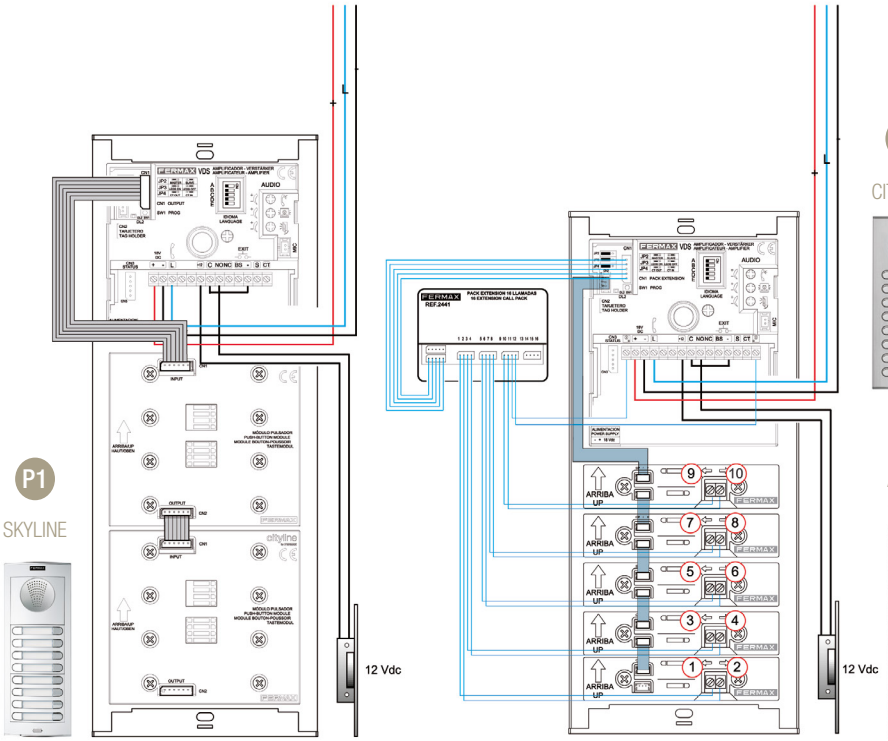
- P1 SKYLINE/CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4830).
- T1 VDS LOFT BASIC telephone (ref.3390).



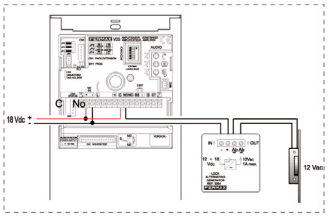
meters	mm^2
1 - 50	1 mm^2
50 - 100	1,5 mm^2
100 - 200	2,5 mm^2

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





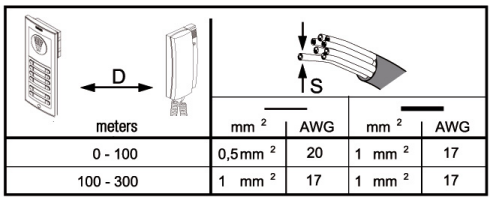
AC electric lock commander connection (ref.3264).



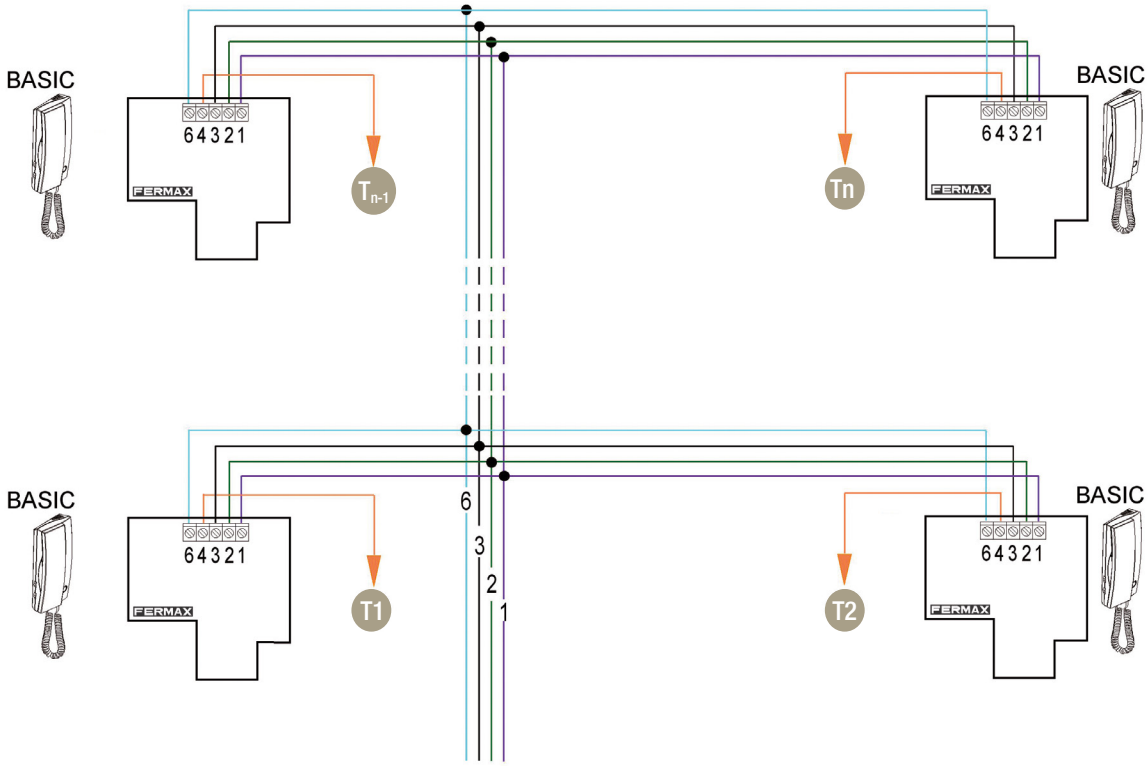
TECH. INFO

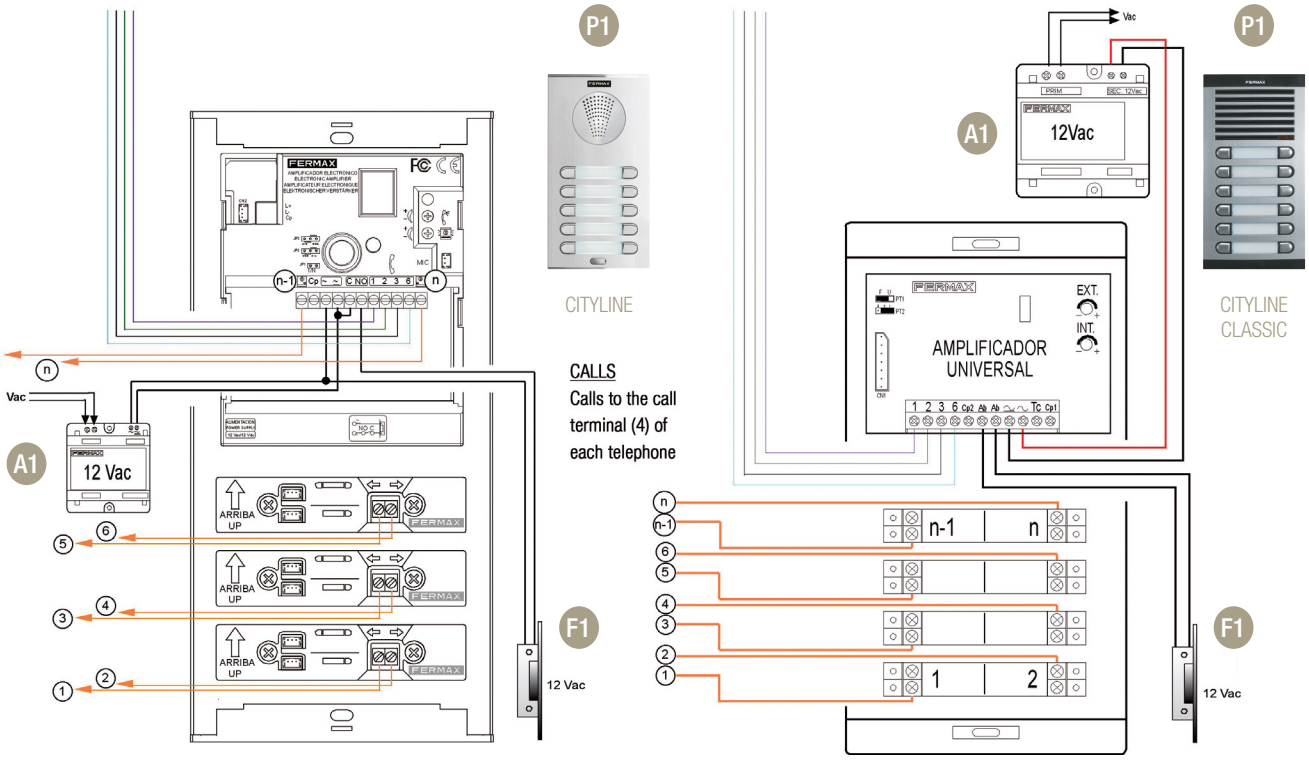
1 ACCESS 4+N AUDIO WITH CITYLINE/CITYLINE CLASSIC PANEL

- P1 4+N CITYLINE/CITYLINE CLASSIC panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 12Vac (ref.4802).
- T1 LOFT BASIC telephone (ref.3393).



meters	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





DUOX. FEATURES

· Up to 999.999 apartments.
· Up to 10 General entrance panels.
· Up to 100 Interior blocks with 10 panels and 9.999 apartments.
· Up to 100 Sub-blocks with 10 panels and 99 apartments.

1 RISER: VIDEO BUILDING INSTALLATION

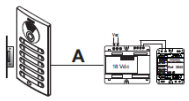
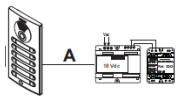
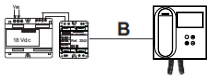
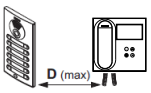
CABLE SECTION	 Maximum distance (A) PSU/Filter until panel (Panel+Lock release) (i)	 Maximum distance (A) PSU/Filter until panel (w/o Lock release)	 Maximum distance (B) PSU/Filter until furthest terminal (ii) (Before the next power supply)	Max. quantity of MONITORS per PSU (ii)		 Maximum distance Panel-Furthest terminal with additional PSU/ Filters (iii)	Max. TOTAL quantity of MONITORS
				4830 (3A)	4812 (1,5A)		
2 x 1.0mm^2	20m	20m	55m	40	24	120m	100
2 x 0.5mm^2	15m	20m	45m	40	24	100m	80
2 x 0.2mm^2	10m	15m	36m	40	24	100m	80

Table with up to 6 apartments for floor.

2 RISERS: VIDEO BUILDING INSTALLATION

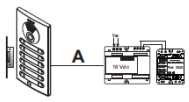
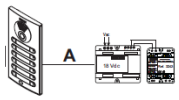
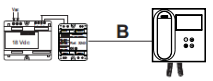
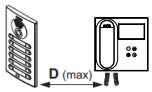
CABLE SECTION	 Maximum distance (A) PSU/Filter until panel (Panel+Lock release) (i)	 Maximum distance (A) PSU/Filter until panel (w/o Lock release)	 Maximum distance (B) PSU/Filter until furthest terminal (ii) (Before the next power supply)	Max. quantity of MONITORS per PSU (ii)		 Maximum distance Panel-Furthest terminal with additional PSU/ Filters (iii)	Max. TOTAL quantity of MONITORS
				4830 (3A)	4812 (1,5A)		
2 x 1.0mm^2	10m	10m	55m	40	24	100m	100 (50/ per riser)
2 x 0.5mm^2	10m	10m	45m	40	24	85m	80 (40/ per riser)
2 x 0.2mm^2	10m	10m	36m	40	24	85m	80 (40/ per riser)

Table with up to 6 apartments for floor.

3 RISERS: VIDEO BUILDING INSTALLATION

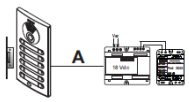
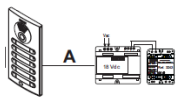
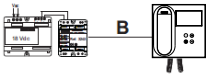
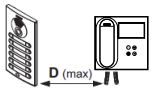
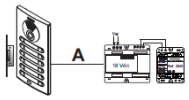
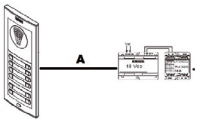
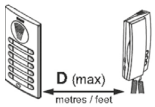
CABLE SECTION	 Maximum distance (A) PSU/Filter until panel (Panel+Lock release) (i)	 Maximum distance (A) PSU/Filter until panel (w/o Lock release)	 Maximum distance (B) PSU/Filter until furthest terminal (ii) (Before the next power supply)	Max. quantity of MONITORS per PSU (ii)		 Maximum distance Panel-Furthest terminal with additional PSU/ Filters (iii)	Max. TOTAL quantity of MONITORS
				4830 (3A)	4812 (1,5A)		
2 x 1.0mm^2	10m	10m	55m	40	24	70m	60 (20/ per riser)
2 x 0.5mm^2	10m	10m	45m	40	24	70m	60 (20/ per riser)
2 x 0.2mm^2	10m	10m	36m	40	24	70m	60 (20/ per riser)

Table with up to 6 apartments for floor.

(i) For 12 Vdc door lock max. 250 mA supplied from amplifier.
(ii) Each additional PSU+filter allows for the expansion of the system in distance and terminals according to the table.
(iii) Longer distances can be reached via regenerators.
In case of installations which do not fit these parametres, consult our Technical Department: tec@fermax.com
Maximum derivation distance: 20m. Additional monitor: Power supply required.

1 RISER: DUOX BASIC AUDIO BUILDING INSTALLATION WITHOUT ADITIONAL ELEMENTS

CABLE SECTION	 Maximum distance (A) PSU/Filter until Panel (Panel+door lock) (i)	 Maximum distance (A) PSU/Filter until Panel (without door lock)	Maximum Distance (B) PSU/Filter until FURTHEST TERMINAL (ii)	Max. Quantity of TELEPHONS per PSU (ii)	 Maximum Distance PANEL-FURTHEST TERMINAL with additional PSUs+filters (iii)
2 x 1.0mm^2	25m	50m	75m	48	300m
2 x 0.5mm^2	15m	30m	60m	32	300m
2 x 0.2mm^2	10m	15m	35m	16	300m

Expands with 2 terminals for apartments.

IN THE APARTMENT

Depending on the required technology, choose between monitor or telephone.

	MONITORS						TELEPHONES		
TECHNOLOGY	VEO	LOFT	iLOFT	iLOFT PURE	SMILE 7”	SMILE 3,5”	LOFT	iLOFT	CITYMAX
DUOX	YES	YES	YES	YES			YES		YES
VDS		YES	YES	YES	YES	YES	YES	YES	
ANALOGUE MDS		YES					YES		YES

DOOR ENTRY PANELS

Depending on the required technology, choose the door entry panel required.

	SKYLINE		CITYLINE PUSH BUTTONS		CITYLINE DIGITAL	CITYLINE DIRECT	CITYLINE CLASSIC	MARINE PUSH BUTTONS		MARINE DIGITAL
TECHNOLOGY	VIDEO	AUDIO	VIDEO	AUDIO	VIDEO	VIDEO	AUDIO	VIDEO	AUDIO	VIDEO
DUOX	YES	YES	YES	YES	YES	YES		YES	YES	YES
VDS	YES	YES	YES	YES	YES	YES		YES	YES	YES
ANALOGUE MDS	YES	YES		YES	YES	YES	YES	YES	YES	YES

SPECIAL APPLICATION FORM

FERMAX

SPECIAL **MARINE PANELS**

DIMENSIONS MARINE SERIES (MM)

	HEIGHT	WIDTH
ST1	180	150

MARK ☐

	HEIGHT	WIDTH
ST2	250	150

MARK ☐

	HEIGHT	WIDTH
ST3	360	150

MARK ☐

	HEIGHT	WIDTH
ST4	485	150

MARK ☐

	HEIGHT	WIDTH
ST SPECIAL		

MARK ☐

Amplifier:

VDS ☐
DUOX ☐
4+N ☐

Camera:

COLOUR ☐

150

Amplifier

Proximity

OneToOne

1 push button

1 push. without cardholder

Camera

Keypad

Digital display

2 push buttons

2 push. without cardholder

Complements or printing (draw here)

DESIGN YOUR SPECIAL MARINE PANEL

MARK THE TYPE OF BOX

☐ FLUSH BOX ☐ SURFACE BOX ☐ WITHOUT BOX

DATE

CUSTOMER NUMBER	CONTACT PERSON
AREA	PRICE

TECH. INFO

REFERENCE
DESCRIPTION
FAMILY
PAGE

INDEX OF REFERENCES

FERMAX

INDEX

REF.	DESCRIPTION	FAM.	PAGES
1021	EMERGENCY MODULE. 18VDC	02	72,79,85,96
1065	RF DIGITAL RECEIVER	02	92, 110
1076	MAGNETIC CONTACT	02	53
1087	IP REMOTE MANAGEMENT MODULE	02	94,109
1170	32 LANGUAGES VOICE SYNTHESIZER	02	88
1300	MINIDECODER AUDIO 4+N	02	89,96
1345	FIBER OPTICS CONVERTER	02	96,109
1401	1/W 7" WAY VIDEO KIT	03	16
1402	2/W 7" WAY VIDEO KIT	03	16
1405	7" WAY KIT MONITOR 1	03	16
1406	7" WAY KIT MONITOR 2	03	16
1407	1/W COLOUR WAY VIDEO KIT PANEL	03	16
1408	2/W COLOUR WAY VIDEO KIT PANEL	03	16
1410	WAY KIT P.S.U. DIN10 28VDC-2A	02	16
1727	MECHANISM 540aD-412 MAX	02	51
1728	MECHANISM 540Aa-412 MAX	02	51
1777	MECHANISM 540N MAX	02	51
1780	MECHANISM 540Aa MAX	02	51
1781	MECHANISM 540AaD MAX	02	51
1782	MECHANISM 540N-412 MAX	02	51
1786	700N-512/524 ELECTRIC DROP BOLT	02	53
1794	MECHANISM 540N-512 MAX	02	51
1799	MECHANISM 540ND MAX	02	51
1810	MECHANISM 540Ab-412 MAX	02	51
1811	MECHANISM 540AbD MAX	02	51
1812	MECHANISM 540Ab MAX	02	51
1813	MECHANISM 990ND MAX	02	51
1814	MECHANISM 990ND TOPMAX	02	51
1820	LOCK RELEASE 540Ab-412-S MAX	02	51,73,79
1821	LOCK RELEASE 540Ab-S MAX	02	51,73,79,85
2008	8 CALL EXTENSION MODULE	02	70,77
2013	ADDITIONAL FUNCTION RELAY	02	75,82,89,110
2040	ELECTRONIC CALL EXTENSION BELL	02	75,83,88
2060	EMERGENCY BATTERY ADAPTOR. 12Vdc	02	96,108,113
2065	GENERAL CALL AMPLIFIER	02	88
2127	DECORATIVE FRAME	02	65,86
2289	JOINING BOLT SET	02	45,46,72,77,91
2306	PRIVATE PROGRAMMING KEYPAD	02	103
2336	PROXIMITY CARD WITH MAGNETIC BAND	02	36,92,103,111
2338	RS-232 TO RS-485 PC ADAPTOR	02	94,109
2339	MDS/AC+ REPEATER	02	96,108
2340	4+N/MDS CALL MULTIPLIER	02	89
2379	2 ACCESSES SWITCHER	02	93
2405	MDS 1 ACCESS CENTRAL UNIT	02	93
2409	VDS/MDS DECODER	02	79,97
2418	4-WAYS MDS VIDEO DISTRIBUTOR	04	97
2419	8-WAYS MDS VIDEO DISTRIBUTOR	04	97
2424	4-WAYS MDS AUDIO DECODER	02	97
2425	8-WAYS MDS AUDIO DECODER	02	97
2426	4-WAYS MDS AUDIO ISO DECODER	02	97
2429	8 MDS/AC+ SENSOR DECODER	02	97, 110
2430	8 MDS/AC+ RELAY DECODER	02	97, 110
2436	4-PANELS MDS DECODER	02	97
2438	LIGHT OR BUZZER ACTIVATOR	02	75, 83

REF.	DESCRIPTION	FAM.	PAGES
2440	MDS CITY DIGITISER MODULE	02	42
2441	16 CALL EXTENSION MODULE	02	70,77
2443	MDS DIRECT/CITY 1 ACCESS SWITCHER	04	95
2448	2 WAYS VIDEO DISTRIBUTOR	04	81,87
2449	4 WAYS VIDEO DISTRIBUTOR	04	81,87
2450	VDS VIDEO SWITCHER	04	79,83
2466	PC DECODER PROGRAMMING MODULE	02	93, 109
2472	8-CAMERAS SELECTOR	04	83,89
2492	VDS GUARD UNIT CONNECTION MODULE	02	80
2532	MDS DIRECT/CITY CITYMAX GUARD UNIT	02	95
2536	VDS CITYMAX GUARD UNIT	02	80
2537	MDS DIGITAL GUARD UNIT	02	93
2540	4+N (3W) CONNECTION CABLE	02	32
2541	DUOX/VDS (6W) CONNECTION CABLE	02	32
2542	DUOX/VDS (5W) CONNECTION CABLE	02	32
2543	MDS (7W) CONNECTION CABLE	02	32
2545	PROX (4W) CONNECTION CABLE	02	32
2837	U BRACKET (for ref.3052)	02	53
2878	DOUBLE KEY 961 ELECTRIC RIM LOCK	02	53
2893	M-type GREY LARGE shield	02	53
2894	P22-TYPE SHORT shield	02	53
2913	2C (WHITE) DOUBLE DOOR CONTACT	02	53
2917	LOCK RELEASE A-2001 CHROME	02	52
2922	3C TRIPLE DOOR CONTACT	02	53
2923	LOCK RELEASE N-2001 CHROME	02	52
2940	LOCK RELEASE N-2003 ALUMINIUM ANODIZED	02	52
2942	LOCK RELEASE A-2003 ALUMINIUM ANODIZED	02	52
2964	TYPE-2007 GREY CASE	02	52
2973	s-type GREY SHORT shield	02	53
2975	G-TYPE GREY LARGE shielD (36mm)	02	53
2979	TYPE-2001 CHROME CASE	02	52
2984	8000N LOCK RELEASE WITH CHAIN	02	53
2985	GE-TYPE GREY LARGE shielD (12mm)	02	53
2987	TYPE-2006 GREY CASE	02	52
2998	GLASS CAD CHROMED LOCK RELEASE	02	53
3004	LOCK RELEASE 6000N GREY	02	52
3005	LOCK RELEASE 6000A GREY	02	52
3006	LOCK RELEASE 6000AD GREY	02	52
3021	MECHANISM 660N	02	52
3030	LOCK RELEASE 480N	02	52
3031	LOCK RELEASE 480A	02	52
3034	LOCK RELEASE 490N	02	52
3035	LOCK RELEASE 490A	02	52
3050	FLUSH-MOUNTED 300KG	02	53
3052	SURFACE 300KG	02	53
3078	BRACKET (for ref.3052)	02	53
3079	DOUBLE Z BRACKET	02	53
3083	X1 FLEXIBLE CONDUIT (30cm)	02	53
3084	X2 RIGID VANDAL PROOF CONDUIT (26cm)	02	53
3098	GLASS CIIN-512-SX LOCK RELEASE	02	53
3101	850/50 A AUTOMATIC LOCK	02	53
3102	850/25 A AUTOMATIC LOCK	02	53
3172	MARINE SPECIAL PANEL	02	47
3244	DUOX FILTER	04	72

INDEX

REF.	DESCRIPTION	FAM.	PAGES
3253	VIDEO DUOX TRUNK SHUNT ISOLATOR	04	73
3255	DUOX LINE ADAPTOR	02	72
3256	DUOX REGENERATOR	02	73
3257	DUOX RELAY MODULE	02	75
3258	AUDIO DUOX TRUNK SHUNT ISOLATOR	02	73
3260	2 WAYS VIDEO MINI DISTRIBUTOR	04	81
3262	4 WAYS VIDEO MINI DISTRIBUTOR	04	81
3264	AC ELECTRIC LOCK COMMANDER	02	73,79,96
3265	VDS TESTER	02	79
3299	VDS COLOUR LOFT MEMORY MONITOR	04	81
3305	VDS COLOUR LOFT MONITOR	04	81
3307	COLOUR LOFT MONITOR	04	86
3310	B/W LOFT MONITOR	04	86
3311	VDS B/W LOFT MONITOR	04	81
3314	VDS LOFT CONNECTOR	04	81
3315	LOFT CONNECTOR	04	86
3324	DESKTOP CONNECTOR	04	86
3325	VDS LOFT DESKTOP CONNECTOR	04	81
3380	DECORATIVE FRAME	02	64,74,81,86
3384	VDS LOFT CONNECTOR W/DECOR. FRAME	04	81
3386	DECORATIVE FRAME. 250x240	04	59,74,81
3388	UNIVERSAL DECORATIVE FRAME. 120x240	04	67,74,81,87
3389	LARGE UNIVERSAL DECOR. FRAME. 210x240	04	67,74,81,87
3390	VDS LOFT BASIC TELEPHONE	02	81
3391	VDS LOFT EXTRA TELEPHONE	02	81
3393	BASIC LOFT TELEPHONE	02	86
3394	EXTRA LOFT TELEPHONE	02	86
3399	UNIVERSAL LOFT TELEPHONE	02	86
3412	DUOX COLOUR LOFT MONITOR	04	74
3415	DUOX LOFT CONNECTOR	04	74
3416	DUOX DESKTOP SUPPORT. 210x240	04	74
3417	LOFT DUOX CONNECTOR W/DECOR. FRAME	04	74
3421	DUOX BASIC PLUS LOFT TELEPHONE	02	74
3422	DUOX EXTRA LOFT TELEPHONE	02	74
3425	DUOX BASIC CITYMAX TELEPHONE	02	74
3441	LOFT HANDSET WITH INDUCTION LOOP	02	59,64,81,86
3491	DIN RAIL RELAY. 12Vdc/12A	02	82,89,110
3623	LOFT MEMOKEY KIT	03	102
3749	DESKTOP SUPPORT	02	64,65,74,81,86
4110	VIDEO AMPLIFIER	04	83,89,96
4341	1/W DUOX COLOUR CITY VIDEO KIT	03	17
4342	2/W DUOX COLOUR CITY VIDEO KIT	03	17
4410	AC PLUS CENTRAL UNIT	03	108
4420	DOOR CONTROLLER	03	92,111
4515	PROXIMITY KEYRING	03	36,92,103,111
4530	LOFT PRIVATE READER	03	103
4540	LOFT MEMOKEY	03	102
4545	TELEPHONE INTERFACE	02	82,88
4550	LOFT WIEGAND PROXIMITY/KEYPAD READER	03	111
4560	LOFT WIEGAND PROXIMITY READER	03	111
4614	2ND CAMERA SELECTOR	04	83,89
4641	MARINE FLUSH BOX ST1:130x160x55	02	45
4642	MARINE FLUSH BOX ST2: 130x220x55	02	45
4643	MARINE FLUSH BOX ST3: 130x340x55	02	45,46,72,77,91
4645	MARINE SURFACE BOX ST1: 154x184x96	02	45
4646	MARINE SURFACE BOX ST2: 154x244x96	02	45
4647	MARINE SURFACE BOX ST3: 154x364x96	02	45,46,77,91
4696	AC PLUS/MDS MARINE KEYPAD	02	46,92,110
4699	MEMOKEY MARINE READER	02	46, 102
4701	MARINE HOOD ST1	02	45
4702	MARINE HOOD ST2	02	45
4703	MARINE HOOD ST3	02	45
4800	POWER SUPPLY. DIN 4. 12Vac/1,5A	02	53,79,84
4802	POWER SUPPLY. DIN 4. 12Vac/1A	02	53,79,84
4810	POWER SUPPLY. 18Vdc/1,5A-12Vac/1,5A	02	72,79
4812	POWER SUPPLY. 18Vdc/1,5A	02	72,79,85,95
4813	POWER SUPPLY. DIN 6. 12Vdc/2A	02	53,95,103,108,113
4830	POWER SUPPLY. 18Vdc/3,5A	03	79,84,95
4842	1/W VDS MEMOPHONE KIT CITY PANEL	02	21
4843	22/W 4+N CITY KIT AUDIO PANEL	03	23
4844	24/W 4+N CITY KIT AUDIO PANEL	03	23
4845	1/W 4+N CITY KIT AUDIO PANEL	03	20,21,22
4846	2/W 4+N CITY KIT AUDIO PANEL	03	22
4847	3/W 4+N CITY KIT AUDIO PANEL	03	22
4848	4/W 4+N CITY KIT AUDIO PANEL	03	22
4849	6/W 4+N CITY KIT AUDIO PANEL	03	22
4852	8/W 4+N CITY KIT AUDIO PANEL	03	22
4853	10/W 4+N CITY KIT AUDIO PANEL	03	22
4854	12/W 4+N CITY KIT AUDIO PANEL	03	22
4855	14/W 4+N CITY KIT AUDIO PANEL	03	23
4856	16/W 4+N CITY KIT AUDIO PANEL	03	23
4857	18/W 4+N CITY KIT AUDIO PANEL	03	23
4858	20/W 4+N CITY KIT AUDIO PANEL	03	23
4860	1/W 4+N CITY AUDIO KIT	03	20,22
4862	2/W 4+N CITY AUDIO KIT	03	20,22
4863	3/W CITY AUDIO KIT	03	22
4864	4/W CITY AUDIO KIT	03	22
4865	10/W CITY AUDIO KIT	03	22
4866	6/W CITY AUDIO KIT	03	22
4867	12/W CITY AUDIO KIT	03	22
4868	8/W CITY AUDIO KIT	03	22
4869	14/W CITY AUDIO KIT	03	23
4871	16/W CITY AUDIO KIT	03	23
4874	18/W CITY AUDIO KIT	03	23
4875	20/W CITY AUDIO KIT	03	23
4876	22/W CITY AUDIO KIT	03	23
4877	24/W CITY AUDIO KIT	03	23
4878	1/W VDS iloft audio kit	03	21
4889	1/W VDS COLOUR ONE-TO-ONE VIDEO KIT	03	17
4902	1/W COLOUR VDS MEMOVISION KIT CITY PANEL	03	17
4906	CITYLINE MEMOKEY KIT	03	102
4910	1/W VDS BIOVISION KIT PANEL	03	102
4911	1/W VDS BIOPHONE KIT PANEL	03	102
4915	VDS DIGITAL KIT	03	19
4916	199 DIGITAL VOX KIT	03	23
4920	1/W DUOX CITY AUDIO KIT	03	20
4921	2/W DUOX CITY AUDIO KIT	03	20
4925	1/W VDS BIOPHONE KIT	03	21

FERMAX INDEX

REF.	DESCRIPTION	FAM.	PAGES
4926	1/W COLOUR VDS BIOVISION KIT	03	17
4933	1/W BUS2 COLOUR CITY VIDEO KIT	03	17
4950	1/W VDS iLOFT VIDEO KIT	03	16
4956	DUOX DIRECT KIT	03	19
4957	DUOX DIGITAL KIT	03	19
4960	1/W VDS B/W CITY VIDEO KIT	03	16
4961	1/W VDS COLOUR CITY VIDEO KIT	03	16
4979	VDS DIRECT KIT	03	19
4980	199 VOX KIT	03	23
4982	1/W VDS MEMOPHONE KIT	03	21
4984	1/W COLOUR VDS MEMOVISION KIT	03	17
5021	1/W VDS iLOFT PURE SURFACE VIDEO KIT	03	16
5061	1/W VDS 3,5" SMILE KIT	03	16
5062	2/W VDS 3,5" SMILE KIT	03	16
5071	1/W VDS 7" SMILE KIT	03	16
5072	2/W VDS 7" SMILE KIT	03	16
5250	AXESKEY BASIC-2B RF RECEIVER. 12/24V	03	106
5251	AXESKEY PLUS-2B RF CONTROLLER. 12/24V	03	106
5252	AXESKEY PLUS-2 RF CONTROLLER. 230V	03	106
5253	AXESKEY EXTRA-500 RF CONTROLLER. 230V	03	107
5254	AXESKEY EXTRA-5K RF CONTROLLER. 12/24V	03	107
5255	SLIM 13.56 WG/AXES PROXIMITY READER	03	107,113
5256	FLUSH-MOUNTED VR KEYPAD. 868MHZ	03	107
5257	SURFACE VR KEYPAD. 868MHZ	03	107
5258	USERPLUS RF-PROX PROGRAMMING KIT	03	106
5259	MINI KEYSINGLE RF EMITTER	03	107,111,113
5260	MINI KEYDUAL RF EMITTER (emitter+proximity)	03	107,113
5261	KEYTRI PLUS2 RF EMITTER (emitter+proximity+hands-free)	03	107
5262	PROXIMITY PRE KEYCARD. 13.56MHZ	03	107,113
5263	PROXIMITY PRE KEYRING. 13.56MHZ	03	107,113
5264	HANDS-FREE HF ANTENNA. 1.5MTS	03	107
5265	HANDS-FREE HF WRISTBAND. 868MHZ	03	107
5266	WIEGAND RF RECEIVER	03	106,111,113
5267	TEMP. POT-TRO (PLUS) RELAY CARD	03	107
5268	PROG-TSA (EXTRA-500) RELAY CARD	03	107
5269	1000-EVENTS (EXTRA-500) CARD	03	107
5270	GSM (EXTRA-5K) REMOTE CARD	03	107
5271	MEMORY 500 (PLUS_BASIC) CARD	03	107
5272	MEMORY 500C (EXTRA-500) CARD	03	107
5273	HANDS-FREE HF IDENTIFIER	03	107
5274	MIFARE PROXIMITY KEYRING	03	104,111,113
5275	MIFARE PROXIMITY CARD	03	104,111,113
5276	1 DOOR WG STAND-ALONE CONTROLLER	03	104
5277	MIFARE MINI WG PROXIMITY READER	03	104,111,113
5278	MINI KEYPAD WITH PROXIMITY WG	03	104,113
5280	IP_AXES 1/2 CENTRAL CONTROLLER	03	112
5281	IP_AXES 4 EXPANSION	03	113
5282	IP_AXES I/O EXPANSION	03	113
5283	10 READERS IP_AXES LICENCE	03	113
5284	40 READERS IP_AXES LICENCE	03	113
5285	80 READERS IP_AXES LICENCE	03	113
5286	140 READERS IP_AXES LICENCE	03	113
5431	1/W VDS MARINE AUDIO KIT	03	21
5432	1/W VDS COLOUR MARINE VIDEO KIT	03	17
5465	VDS DIGITAL AUDIO MARINE PANEL ST3	02	77
5467	MDS DIGITAL AUDIO MARINE PANEL ST3	02	91
5468	VDS DIGITAL VIDEO PANEL ST3	02	46,77
5470	MDS DIGITAL VIDEO PANEL ST3	02	46,91
5471	DIRECTORY PANEL ST3	02	46,72,77,91
5472	MARINE PROXIMITY READER	03	46,92,103,110,111
5482	MARINE FINGERPRINT READER	03	46,92,104,111
5483	DUOX DIGITAL VIDEO PANEL ST3	02	46,72
5523	DUOX DIGITAL AUDIO MARINE PANEL ST3	02	72
5601	VDS iLOFT TELEPHONE	02	81
5602	DUOX iLOFT MONITOR	02	74
5603	DUOX iLOFT PURE MONITOR	02	74
5606	SURFACE VDS iLOFT PURE MONITOR	04	81
5620	VDS iLOFT MONITOR	04	81
5630	iLOFT FLUSH BOX. 108x158x45	04	74,81
5631	iLOFT CRYSTAL DECORATIVE FRAME	04	61,74,81
5633	SILVER iLOFT COVER	04	61,81
5634	BLACK iLOFT COVER	04	61,81
5635	GOLD iLOFT COVER	04	61,81
5636	iLOFT VDS TELEPHONE DESKTOP SUPPORT	02	66
5637	iLOFT PURE MONITOR DESKTOP SUPPORT	04	66,74
5918	DECODER-PANEL-FXL CENTRAL UNIT BUS CABLE (1M)	00	97
5919	VIDEO BUS CABLE. 1M	00	83,97
5922	DECODER-TELEPH. CONNECTION CABLE (1M)	00	97
5925	DUOX PARALLEL CABLE. 2x1mm2	00	75
6201	1/W CITYMAX AUDIO KIT	03	20,24
6202	2/W CITYMAX AUDIO KIT	03	20,24
6203	3/W CITYMAX AUDIO KIT	03	24
6204	4/W CITYMAX AUDIO KIT	03	24
6206	6/W CITYMAX AUDIO KIT	03	24
6208	8/W CITYMAX AUDIO KIT	03	24
6210	10/W CITYMAX AUDIO KIT	03	24
6212	12/W CITYMAX AUDIO KIT	03	24
6214	14/W CITYMAX AUDIO KIT	03	25
6216	16/W CITYMAX AUDIO KIT	03	25
6218	18/W CITYMAX AUDIO KIT	03	25
6220	20/W CITYMAX AUDIO KIT	03	25
6222	22/W CITYMAX AUDIO KIT	03	25
6224	24/W CITYMAX AUDIO KIT	03	25
6545	3,5" VDS SMILE MONITOR	04	80
6546	3,5" SMILE FLUSH BOX	04	57, 80
6547	3,5" SMILE WHITE DECORATIVE FRAME	04	57, 80
6548	VDS SILVER SMILE CONNECTOR	04	80
6550	7" VDS SMILE MONITOR	04	80
6551	7" SMILE FLUSH BOX	04	57, 80
6552	7" SMILE WHITE DECORATIVE FRAME	04	57, 80
6555	7" VDS ABSOLUTE WHITE SMILE MONITOR	04	80
6556	7" VDS SILVER SMILE MONITOR	04	80
6557	7" VDS BLACK SMILE MONITOR	04	80
6558	3,5" VDS ABSOLUTE WHITE SMILE MONITOR	04	80
6559	7" SMILE SILVER DECORATIVE FRAME	04	57, 80
6560	7" SMILE BLACK DECORATIVE FRAME	04	57, 80

INDEX

REF.	DESCRIPTION	FAM.	PAGES
6563	3,5" VDS SILVER SMILE MONITOR	04	80
6564	3,5" VDS BLACK SMILE MONITOR	04	80
6565	VDS WHITE SMILE CONNECTOR	04	80
6566	SMILE MONITOR DESKTOP SUPPORT	04	66, 80
6567	VDS BLACK SMILE CONNECTOR	04	80
6570	3,5" SMILE SILVER DECORATIVE FRAME	04	57, 80
6571	3,5" SMILE BLACK DECORATIVE FRAME	04	57, 80
6750	MECHANISM 990N MAX	02	51,73,79,96
6752	MECHANISM 990A MAX	02	51,73,79
6753	MECHANISM 990AD MAX	02	51
6780	MECHANISM 990N-512 MAX	02	51
6935	CITYLINE FINGERPRINT READER	03	92,104,111
6936	FINGERPRINT READER W	03	36,71,78,104,111
6937	CITYLINE KEYPAD/FINGERPRINT READER	03	104,111
6945	BRAILLE SINGLE PUSH BUTTON LABEL. Nº1-76	02	34
6946	BRAILLE DOUBLE PUSH BUTTON LABEL. Nº1-76	02	34
6991	CITYLINE MEMOKEY	03	102
6992	CITY PROXIMITY READER	03	92,103,110,111
6994	MDS CITY KEYPAD	03	92, 110
6995	CITYLINE KEYPAD/PROXIMITY READER	03	110,111
7061	CITY SURFACE BOX S1: 130x128x33	02	33
7062	CITY SURFACE BOX S2: 130x151x33	02	33
7064	CITY SURFACE BOX S4: 130x199x33	02	33
7065	CITY SURFACE BOX S5: 130x246x33	02	33
7066	CITY SURFACE BOX S6: 130x294x33	02	33,94
7067	CITY SURFACE BOX S7: 130x341x33	02	33,91
7068	CITY SURFACE BOX S8: 130x389x33	02	33
7069	CITY SURFACE BOX S9: 130x436,5x33	02	33
7209	1 V CITYLINE PANEL	02	39
7287	MDS COLOUR CITY DIRECT VIDEO PANEL S5	02	41,94
7297	MDS COLOUR CITY DIGITAL VIDEO PANEL S7	02	41,91
7299	VDS COLOUR CITY DIGITAL VIDEO PANEL S7	02	41,77
7301	MDS CITY DIGITAL AUDIO PANEL S7	02	41,91
7303	VDS CITY DIGITAL AUDIO PANEL S7	02	41,77
7305	VDS COLOUR CITY DIRECT VIDEO PANEL S5	02	41,77
7309	DIRECTORY PANEL S5	02	41,72,77
7310	DIRECTORY PANEL S7	02	41,72,77,91
7318	DIRECTORY PANEL S6	02	41,94
7332	SKYLINE FRAME 2V - S2 130x151	02	32,71,78
7333	SKYLINE FRAME 3V - S4 130x199	02	32,71,78
7334	SKYLINE FRAME 4V - S5 130x246	02	32,71,78
7335	SKYLINE FRAME 5V - S6 130x294	02	32,71,78
7336	SKYLINE FRAME 6V - S7 130x341	02	32,71,78
7337	SKYLINE FRAME 7V - S8 130x389	02	32,71,78
7338	SKYLINE FRAME 8V - S9 130x436,5	02	32,71,78
7341	SKYLINE FRAME 1V - S1 130x128	02	32,71,78
7357	1/W VDS VIDEO CITY KIT PANEL W INF SCRE	02	17
7361	DUOX DIRECT AUDIO CITY PANEL S5	02	72
7363	DUOX COLOUR CITY DIRECT VIDEO PANEL S5	02	41,72
7364	DUOX COLOUR CITY DIGITAL VIDEO PANEL S7	02	41,72
7365	4 PUSH. 104W 4+N	02	34
7366	2 PUSH. 102V 4+N	02	34
7367	4 Push. 104W DUOX/VDS SKYLINE MODULE W	02	34,71,78
7368	2 Push. 102V DUOX/VDS SKYLINE MODULE V	02	34,71,78
7369	8 PUSH. 204W 4+N	02	34
7370	4 PUSH. 202V 4+N	02	34
7371	8 Push. 204W DUOX/VDS SKYLINE MODULE W	02	34,71,78
7372	4 PUSH. 202V DUOX/VDS SKYLINE MODULE V	02	34,71,78
7373	1 PUSH. 101V 4+N	02	34
7374	2 PUSH. 201V 4+N	02	34
7375	1 PUSH. 101V DUOX/VDS	02	34,71,78
7376	2 PUSH. 201V DUOX/VDS	02	34,71,78
7384	DUOX CITY DIGITAL AUDIO PANEL S7	02	41,72
7390	DUOX AUDIO SKYLINE MODULE W	02	71
7391	DUOX VIDEO MODULE W	02	34,71
7399	4+N AUDIO KIT MODULE W	02	34
7400	4+N AUDIO MODULE W	02	34
7406	4+N VIDEO MODULE W	02	34
7415	VDS AUDIO MODULE W	02	34,78
7421	VDS VIDEO MODULE W	02	34,78
7438	MEMOKEY W	03	36,71,78,102
7439	DUOX/VDS/MDS DIRECT KEYPAD W	02	35,71,78
7440	PROXIMITY READER V	03	36,71,78 103,110,111
7442	METALLIC COMPLEMENT V	02	35,71,78
7443	METALLIC COMPLEMENT W	02	35,71,78
7444	CARDHOLDER V	02	35,71,78
7445	CARDHOLDER W	02	35,71,78
7447	DUOX/VDS/MDS DIGITAL KEYPAD W	02	35,71,78
7448	ONE-TO-ONE MODULE V	02	35,71,78
7449	DUOX/VDS DIGITAL DISPLAY W	02	35,71,78
7451	MDS DIGITAL DISPLAY W	02	35
7453	AC PLUS/MDS KEYPAD W	03	36, 110
7457	AC PLUS DIRECT KEYPAD W	02	36, 110
7460	MDS DIGITISER V	02	35,95
7770	YS-TYPE SHORT SHIELD (TOP)	02	53
7771	YG-TYPE SHORT SHIELD (TOP)	02	53
7776	2CN (BLACK) DOUBLE DOOR CONTACT	02	53
7900	COMPATIBLE SINGLE-CHANNEL RECEIVER	03	88,105
7903	REMOTE CONTROL RECEIVER FOR SHOPS	03	105
7952	SINGLE CHANNEL RF RECEIVER. 433Mhz	03	105
7960	SEGURITY RF RECEIVER	03	105
8039	UNIVERSAL CITYMAX TELEPHONE (PEARL)	02	86
8053	4+N/MDS LIGHT OR BUZZER COMMANDER	02	89
8084	BUS PALACE TELEPHONE	02	87
8251	CITY SINGLE DECORATIVE FRAME S1: 225x310	02	33
8252	CITY SINGLE DECORATIVE FRAME S2: 225x310	02	33
8254	CITY SINGLE DECORATIVE FRAME S4: 225x375	02	33
8255	CITY SINGLE DECORATIVE FRAME S5: 225x375	02	33
8256	CITY SINGLE DECORATIVE FRAME S6: 225x450	02	33
8257	CITY SINGLE DECORATIVE FRAME S7: 225x450	02	33,91
8258	CITY SINGLE DECORATIVE FRAME S8: 225x450	02	33
8259	CITY SINGLE DECORATIVE FRAME S9: 225x495	02	33
8300	1/W CITY CLASSIC KIT PANEL	03	24
8301	2/W CITY CLASSIC KIT PANEL	03	24
8302	3/W CITY CLASSIC KIT PANEL	03	24
8303	4/W CITY CLASSIC KIT PANEL	03	24
8304	6/W CITY CLASSIC KIT PANEL	03	24

FERMAX

INDEX

REF.	DESCRIPTION	FAM.	PAGES
8305	8/W CITY CLASSIC KIT PANEL	03	24
8320	10/W CITY CLASSIC KIT PANEL	03	24
8321	12/W CITY CLASSIC KIT PANEL	03	24
8378	CITY ANGULAR COMPLEMENT S1	02	33
8379	CITY ANGULAR COMPLEMENT S2	02	33
8381	CITY ANGULAR COMPLEMENT S4	02	33
8382	CITY ANGULAR COMPLEMENT S5	02	33
8383	CITY ANGULAR COMPLEMENT S6	02	33
8384	CITY ANGULAR COMPLEMENT S7	02	33
8385	CITY ANGULAR COMPLEMENT S8	02	33
8386	CITY ANGULAR COMPLEMENT S9	02	33
8400	CITY SINGLE HOOD S1: 135x130	02	33
8401	CITY SINGLE HOOD S2: 135x155	02	33
8403	CITY SINGLE HOOD S4: 135x203	02	33
8404	CITY SINGLE HOOD S5: 135x250	02	33
8405	CITY SINGLE HOOD S6: 135x300	02	33
8406	CITY SINGLE HOOD S7: 135x345	02	33
8407	CITY SINGLE HOOD S8: 135x393	02	33
8480	CITY SINGLE HOOD S9: 135x440,5	02	33
8500	4+N 1 AP 101 CITY CLASSIC PANEL	02	43
8501	4+N 1 AP 201 CITY CLASSIC PANEL	02	43
8532	4+N 2 AP 202 CITY CLASSIC PANEL	02	43
8534	4+N 2 AP 102 CITY CLASSIC PANEL	02	43
8560	4+N 3 AP 103 CITY CLASSIC PANEL	02	43
8562	4+N 3 AP 203 CITY CLASSIC PANEL	02	43
8591	4+N 4 AP 204 CITY CLASSIC PANEL	02	43
8593	4+N 4 AP 104 CITY CLASSIC PANEL	02	43
8605	4+N 4 AVP 101 CITY CLASSIC PANEL	02	43
8620	4+N 5 AP 205 CITY CLASSIC PANEL	02	43
8621	4+N 5 AP 206 CITY CLASSIC PANEL	02	43
8622	4+N 5 AP 105 CITY CLASSIC PANEL	02	43
8623	4+N 5 AP 106 CITY CLASSIC PANEL	02	43
8660	4+N 6 AP 207 CITY CLASSIC PANEL	02	43
8661	4+N 6 AP 208 CITY CLASSIC PANEL	02	43
8662	4+N 6 AP 107 CITY CLASSIC PANEL	02	43
8663	4+N 6 AP 108 CITY CLASSIC PANEL	02	43
8700	4+N 7 AP 209 CITY CLASSIC PANEL	02	43
8701	4+N 7 AP 210 CITY CLASSIC PANEL	02	43
8702	4+N 7 AP 109 CITY CLASSIC PANEL	02	43
8703	4+N 7 AP 110 CITY CLASSIC PANEL	02	43
8791	EMERGENCY AUDIO POWER SUPPLY	02	85
8809	VOLTAGE DISTRIBUTOR	02	85
8811	AUDIO AUTOMATIC SWITCHER	02	85
8812	VIDEO AUTOMATIC SWITCHER	04	85
8819	1/W AUDIO AUTOMATIC SWITCHER	02	85
8820	PANORAMIC CARDHOLDER MODULE	02	42
8829	JOINING BOLTS SET	02	32,41,72,77,91
8851	CITY FLUSH BOX S1: 115x114x45	02	33,71,78
8852	CITY FLUSH BOX S2: 115x138x45	02	33,71,78
8854	CITY FLUSH BOX S4: 115x185x45	02	33,71,78
8855	CITY FLUSH BOX S5: 115x233x45	02	33,41,71,72,77,78
8856	CITY FLUSH BOX S6: 115x280x45	02	33,41,71,78,94
8857	CITY FLUSH BOX S7: 115x328x45	02	33,41,71,72,77,78,91
8858	CITY FLUSH BOX S8: 115x375x45	02	33,71,78

REF.	DESCRIPTION	FAM.	PAGES
8982	CITY FLUSH BOX S9: 115x420,5x45	02	33,71,78
9017	BUS MULTIWAY SWITCHER	02	87
9191	CITY MODULAR DECORATIVE FRAME S1: 211x210	02	33
9192	CITY MODULAR DECORATIVE FRAME S2: 211x234	02	33
9194	CITY MODULAR DECORATIVE FRAME S4: 211x281	02	33
9195	CITY MODULAR DECORATIVE FRAME S5: 211x329	02	33
9196	CITY MODULAR DECORATIVE FRAME S6: 211x376	02	33
9197	CITY MODULAR DECORATIVE FRAME S7: 211x424	02	33
9198	CITY MODULAR DECORATIVE FRAME S8: 211x471	02	33
9199	CITY MODULAR DECORATIVE FRAME S9: 211x519	02	33
9200	DOUBLE PANEL MODULAR FRAME KIT	02	33
9201	TRIPLE PANEL S9 MODULAR FRAME KIT	02	33
23361	PROXIMITY CARD W/O MAGNETIC BAND	03	36,92,103,104,111
24651	RF DIGITAL EMITTER	03	92,105,110
24661	USB ADAPTOR TO RS485	02	93,97,103,109
28151	LOCK RELEASE 540Aa-S MAX	02	51
28341	LOCK RELEASE 540ND-S MAX	02	51
29001	TIMER	02	75,82,89
30503	FLUSH-MOUNTED 750KG (swing door)	02	53
30691	LOCK RELEASE 540A-S MAX	02	51
30701	LOCK RELEASE 540N-412-S MAX	02	51,73,79,96
30711	LOCK RELEASE 540N-S MAX	02	51,73,79,85
48505	1/W COLOUR VDS VIDEO CITY KIT PANEL	03	16
48515	2/W COLOUR VDS VIDEO CITY KIT PANEL	03	16
49627	2/W VDS COLOUR CITY VIDEO KIT	03	16
49638	3/W DUOX VIDEO KIT	03	18
49648	4/W DUOX VIDEO KIT	03	18
49658	5/W DUOX VIDEO KIT	03	18
49668	6/W DUOX VIDEO KIT	03	18
49688	8/W DUOX VIDEO KIT	03	18
49718	10/W DUOX VIDEO KIT	03	18
49728	12/W DUOX VIDEO KIT	03	18
49738	14/W DUOX VIDEO KIT	03	18
49748	16/W DUOX VIDEO KIT	03	18
49758	18/W DUOX VIDEO KIT	03	18
49768	20/W DUOX VIDEO KIT	03	19
49778	22/W DUOX VIDEO KIT	03	19
49788	24/W DUOX VIDEO KIT	03	19
54333	VDS 1 AP101 MARINE PANEL	02	45
54334	1 AP101 DUOX AUDIO MARINE PANEL	02	45
54337	VDS 1 CP101 MARINE PANEL	02	45
54338	DUOX 1 CP101 MARINE PANEL	02	45
54343	VDS 1 AP201 MARINE PANEL	02	45
54344	1 AP201 DUOX AUDIO MARINE PANEL	02	45
54347	VDS 1 CP201 MARINE PANEL	02	45
54348	DUOX 1 CP201 MARINE PANEL	02	45
54353	VDS 2 AP102 MARINE PANEL	02	45
54354	2 AP102 DUOX AUDIO MARINE PANEL	02	45
54357	VDS 2 CP102 MARINE PANEL	02	45
54358	DUOX 2 CP102 MARINE PANEL	02	45
54363	VDS 2 AP103 MARINE PANEL	02	45
54364	2 AP103 DUOX AUDIO MARINE PANEL	02	45
54367	VDS 2 CP103 MARINE PANEL	02	45
54368	DUOX 2 CP103 MARINE PANEL	02	45

INDEX

REF.	DESCRIPTION	FAM.	PAGES
54373	VDS 2 AP202V MARINE PANEL	02	45
54374	2 AP202 DUOX AUDIO MARINE PANEL	02	45
54377	VDS 2 CP202	02	45
54378	DUOX 2 CP202	02	45
54383	VDS 2 AP203 MARINE PANEL	02	45
54384	2 AP203 DUOX AUDIO MARINE PANEL	02	45
54387	VDS 2 CP203	02	45
54388	DUOX 2 CP203	02	45
54393	VDS 3 AP104 MARINE PANEL	02	45
54394	3 AP104 DUOX AUDIO MARINE PANEL	02	45
54397	VDS 3 CP104 MARINE PANEL	02	45
54398	DUOX 3 CP104 MARINE PANEL	02	45
54403	VDS 3 AP105 MARINE PANEL	02	45
54404	3 AP105 DUOX AUDIO MARINE PANEL	02	45
54407	VDS 3 CP105 MARINE PANEL	02	45
54408	DUOX 3 CP105 MARINE PANEL	02	45
54413	VDS 3 AP106 MARINE PANEL	02	45
54414	3 AP106 DUOX AUDIO MARINE PANEL	02	45
54417	VDS 3 CP106 MARINE PANEL	02	45
54418	DUOX 3 CP106 MARINE PANEL	02	45
54423	VDS 3 AP107 MARINE PANEL	02	45
54424	3 AP107 DUOX AUDIO MARINE PANEL	02	45
54427	VDS 3 CP107 MARINE PANEL	02	45
54428	DUOX 3 CP107 MARINE PANEL	02	45
54433	VDS 3 AP204 MARINE PANEL	02	45
54434	3 AP204 DUOX AUDIO MARINE PANEL	02	45
54437	VDS 3 CP204 MARINE PANEL	02	45
54438	DUOX 3 CP204 MARINE PANEL	02	45
54443	VDS 3 AP205 MARINE PANEL	02	45
54444	3 AP205 DUOX AUDIO MARINE PANEL	02	45
54447	VDS 3 CP205 MARINE PANEL	02	45
54448	DUOX 3 CP205 MARINE PANEL	02	45
54453	VDS 3 AP206	02	45
54454	3 AP206 DUOX AUDIO MARINE PANEL	02	45
54457	VDS 3 CP206	02	45
54458	DUOX 3 CP206	02	45
54463	VDS 3 AP207	02	45
54464	3 AP207 DUOX AUDIO MARINE PANEL	02	45
54467	VDS 3 CP207	02	45
54468	DUOX 3 CP207	02	45
59200	DECODER-MONITOR CONNECTION CABLE (1M)	00	97
64551	LOCK RELEASE 540AbD-S MAX	02	51
64801	LOCK RELEASE 540N-512-S MAX	02	51
67500	MECHANISM 990N CTC MAX	02	51
67501	UNIVERSAL LOCK RELEASE 990N-P22 MAX	02	51,73,79,96
67511	UNIVERSAL LOCK RELEASE 990ND-P22 MAX	02	51
67521	LOCK RELEASE 990A-P22 MAX	02	51
67531	LOCK RELEASE 990AD-P22 MAX	02	51
67800	MECHANISM 990N-512 CTC MAX	02	51
70001	4+N 1 AP201 CITYLINE PANEL	02	39
70003	VDS 1 AP201 CITYLINE PANEL	02	39
70004	1 AP201 DUOX AUDIO CITYLINE PANEL	02	39
70007	VDS 1 CP201 CITYLINE PANEL	02	39
70008	DUOX 1 CP201 CITYLINE PANEL	02	39

REF.	DESCRIPTION	FAM.	PAGES
70011	4+N 2 AP202 CITYLINE PANEL	02	39
70013	VDS 2 AP202 CITYLINE PANEL	02	39
70014	2 AP202 DUOX AUDIO CITYLINE PANEL	02	39
70017	VDS 2 CP202 CITYLINE PANEL	02	39
70018	DUOX 2 CP202 CITYLINE PANEL	02	39
70021	4+N 3 AP203 CITYLINE PANEL	02	39
70023	VDS 3 AP203 CITYLINE PANEL	02	39
70024	3 AP203 DUOX AUDIO CITYLINE PANEL	02	39
70027	VDS 3 CP203 CITYLINE PANEL	02	39
70028	DUOX 3 CP203 CITYLINE PANEL	02	39
70041	4+N 4 AP204 CITYLINE PANEL	02	39
70043	VDS 4 AP204 CITYLINE PANEL	02	39
70044	4 AP204 DUOX AUDIO CITYLINE PANEL	02	39
70047	VDS 4 CP204 CITYLINE PANEL	02	39
70048	DUOX 4 CP204 CITYLINE PANEL	02	39
70051	4+N 4 AVP201 CITYLINE PANEL	02	39
70053	VDS 4 AVP201 CITYLINE PANEL	02	39
70054	4 AVP201 DUOX AUDIO CITYLINE PANEL	02	39
70057	VDS 4 CVP201 CITYLINE PANEL	02	39
70058	DUOX 4 CVP201 CITYLINE PANEL	02	39
70121	4+N 5 AP205 CITYLINE PANEL	02	39
70123	VDS 5 AP205 CITYLINE PANEL	02	39
70124	5 AP205 DUOX AUDIO CITYLINE PANEL	02	39
70127	VDS 5 CP205 CITYLINE PANEL	02	39
70128	DUOX 5 CP205 CITYLINE PANEL	02	39
70131	4+N 5 AP206 CITYLINE PANEL	02	39
70133	VDS 5 AP206 CITYLINE PANEL	02	39
70134	5 AP206 DUOX AUDIO CITYLINE PANEL	02	39
70137	VDS 5 CP206 CITYLINE PANEL	02	39
70138	DUOX 5 CP206 CITYLINE PANEL	02	39
70701	4+N 1 AP101 CITYLINE PANEL	02	39
70703	VDS 1 AP101 CITYLINE PANEL	02	39
70704	1 AP101 DUOX AUDIO CITYLINE PANEL	02	39
70707	VDS 1 CP101 CITYLINE PANEL	02	39
70708	DUOX 1 CP101 CITYLINE PANEL	02	39
70711	4+N 2 AP102 CITYLINE PANEL	02	39
70713	VDS 2 AP102 CITYLINE PANEL	02	39
70714	2 AP202 DUOX AUDIO CITYLINE PANEL	02	39
70717	VDS 2 CP102 CITYLINE PANEL	02	39
70718	DUOX 2 CP102 CITYLINE PANEL	02	39
70721	4+N 3 AP103 CITYLINE PANEL	02	39
70723	VDS 3 AP103 CITYLINE PANEL	02	39
70724	3 AP103 DUOX AUDIO CITYLINE PANEL	02	39
70727	VDS 3 CP103 CITYLINE PANEL	02	39
70728	DUOX 3 CP103 CITYLINE PANEL	02	39
70741	4+N 4AP104 CITYLINE PANEL	02	39
70743	VDS 4AP104 CITYLINE PANEL	02	39
70744	4 AP104 DUOX AUDIO CITYLINE PANEL	02	39
70747	VDS 4CP104 CITYLINE PANEL	02	39
70748	DUOX 4CP104 CITYLINE PANEL	02	39
70751	4+N 4 AVP101 CITYLINE PANEL	02	39
70753	VDS 4 AVP101 CITYLINE PANEL	02	39
70754	4 AVP101 DUOX AUDIO CITYLINE PANEL	02	39
70757	VDS 4 CVP101 CITYLINE PANEL	02	39

INDEX

REF.	DESCRIPTION	FAM.	PAGES
70758	DUOX CVP101 CITYLINE PANEL	02	39
70821	4+N 5 AP105 CITYLINE PANEL	02	39
70823	VDS 5 AP105 CITYLINE PANEL	02	39
70824	5 AP105 DUOX AUDIO CITYLINE PANEL	02	39
70827	VDS 5 CP105 CITYLINE PANEL	02	39
70828	DUOX 5 CP105 CITYLINE PANEL	02	39
70831	4+N 5 AP106 CITYLINE PANEL	02	39
70833	VDS 5 AP106 CITYLINE PANEL	02	39
70834	5 AP106 DUOX AUDIO CITYLINE PANEL	02	39
70837	VDS 5 CP106 CITYLINE PANEL	02	39
70838	DUOX 5 CP106 CITYLINE PANEL	02	39
79561	DUAL CHANNEL EMITER. 433MHZ	02	88,105
80447	BASIC CITYMAX TELEPHONE (WHITE)	02	86
84601	CITYCOM GUARD UNIT TELEPHONE	02	86
88039	BUS MULTIWAY POWER SUPPLY	02	87
88101	DOUBLE CONTACT RELAY. 18Vdc	02	82,89
88231	POWER SUPPLY/VOLTAGE DISTRIBUTOR	02	85

NOTES

FERMAX

NOTES

NOTES

FERMAX CONTACTS

SPAIN (GENERAL HEADQUARTERS)

FERMAX ELECTRÓNICA, S.A.U.
Avda. Tres Cruces, 133 • 46017 VALENCIA (Spain)

Offices in Alicante, Barcelona, Bilbao, Madrid, Málaga, Murcia, Valencia and Santiago de Compostela.

TELEPHONE

+34 96 317 80 11

SALES ASSISTANCE	☎ +34 963 178 011
BRANDING ASSISTANCE	☎ +34 963 178 022
TECHNICAL ASSISTANCE	☎ +34 963 178 002

FAX

+34 96 378 84 02

INTERNATIONAL SALES	FAX +34 963 788 402
BRANDING ASSISTANCE	FAX +34 963 788 826
TECHNICAL ASSISTANCE	FAX +34 963 170 427

EMAIL export@fermax.com

WEB www.fermax.com

SUBSIDIARIES AND REPRESENTATIVE OFFICES

FERMAX ASIA PACIFIC PTE LTD
Block 13, Loromg 8 Toa Payoh #07-12 Braddell Tech
319261 Singapore
☎ +65 6259 0700 - Fax: +65 6259 0070
fermax@fermax.com.sg / www.fermax.com.sg

FERMAX BELGIUM NV
Nieuwstraat,10 • B-1570 GALMAARDEN • Belgium
☎ +32 54 31 82 80 / info@fermax.be / www.fermax.be

FERMAX COLOMBIA
Cll 93B No 19-35/57 Oficina 201 • Bogotá D.C.- Colombia
☎ (+57) 1 6915832
fermax@fermax.com.co / www.fermax.com.co

FERMAX FRANCE S.A
1-15 rue Benoit Frachon
ZI des Vignes • 93000 Bobigny
☎ +33 1 43 60 11 20 - FAX +33 1 43 60 95 49
fermax@fermax.fr / www.fermax.fr

Agence Fermax Rhone-Alpes
13 Rue Edison
69500 BRON

FERMAX MIDDLE EAST REGIONAL OFFICE
Office No. 7WA 3046, Dubai
P.O. Box 293824
Dubai airport Freezone - Dubai (UEA)
☎ +971 4 253 3369 - FAX: +971 4 253 3370
mideast@fermax.com / www.fermax.com

FERMAX PORTUGAL
Av. do Atlântico, nº 1.19.02, 3º, Esct.7
1990 019 Lisboa
☎ +351 915169236
portugal@fermax.pt / www.fermax.pt

FERMAX POLSKA Sp. z o.o
ul. Szkolna 86 • 62-002 Suchy Las
☎ +48 618 112 303 - FAX +48 618 112 343
fermax@fermax.pl / www.fermax.pl

Office in Warsaw
ul. Minska 63a lok. 47 (budynek Pryzmat)
03-828 Warszawa
☎ +48 22 3308150

FERMAX (SHANGHAI) ELECTRONICS CO. LTD.
Rm. 703, Building A, Venture International Park,
No. 2679, Hechuan Rd. • Shanghai, 201103
☎ +86 21-64659292 - Fax: +86 21-64654992
fermax@fermax.com.cn / www.fermax.com.cn

FERMAX TURKEY
Perpa Ticaret Merkezi A • Blok Kat:11 No:1567
Sisli / Istanbul
☎ +90 212 3560565 - FAX +90 212 3560691
info@fermax.com.tr / www.fermax.com.tr

FERMAX UK LTD
36 Saffron Court
Southfields Industrial Estate
Laindon, Essex, SS15 6SS
☎ +44 1277 634555 - FAX +44 1277 634666
fermax@fermaxuk.com / www.fermax.co.uk.com

FERMAX INC
1214 Avenue M • Brooklyn, NY • 11230 USA
☎ +1 718 513 3941
fermax@fermaxusa.com / www.fermaxusa.com

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.

FERMAX

www.fermax.com | export@fermax.com

Follow us:

@fermax_global

https://www.youtube.com/user/FermaxEng

Fermax For Real App. Available at

PU01274_2V