



VDS DECODER

INSTALLATION MANUAL

ENGLISH

MANUAL DE USUARIO USER'S MANUAL MANUEL D'UTILISATION BENUTZE
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MDS-VDS DECODER

Code 97651Ib V01_12

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VDS DECODER Ref. 2409

Introduction

The VDS DECODER allows the user to combine the MDS infrastructure on General Entrances (MDS DIGITAL NCity entry panels) and on Interior Blocks, VDS equipment, panels and residential terminals.

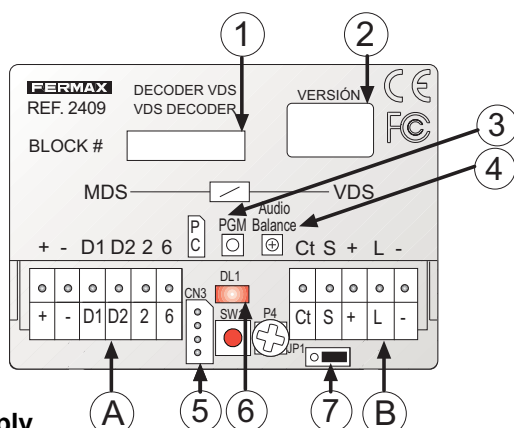
This provides a wide range of possibilities, taking the best from each system: the multiple MDS functions (various access points, guard unit/s, access control, various interior blocks, greater distancesetc) and the simplicity of a VDS system: 3+COAX or 5 wires or UTP CAT5 (based on the distances in question).

The VDS decoder on **version V10.26** or above, can work in 2 different ways:

1. It responds to **a range of telephones** which should be programmed using a starting value and an ending value (same as previous versions).
2. On an MDS system it acts as a 8 output audio decoder.

See the programming section for different options. The decoder comes configured by default as a range decoder.

Description / Technical Features



1. Identification Label
2. Version
3. PGM Programming Button (SW1)
4. Audio Balance Adjustment (P4)
5. PC Programming Connector
6. Activity Led (DL1)
7. JP1 Bridge selection version
 - previous decoder V1.x or V2.x: left
 - new decoder V10.26 or greater: right
 - (*See Resistor connecting negatives).

Power Supply

12 Vdc \pm 10% (CN1).
18 Vdc \pm 10% (CN2).

Consumption

12 Vdc: 13 mA in standby mode.
16 mA in active mode.

18 Vdc: 25 mA in standby mode.
162 mA in active mode.

Operating Temperature

-5 \div +40 °C with 90% RH without condensation.

Installation

Indoor built-in box or within a building.

Connection Terminals

CN1: MDS System.

+, -: 12 Vdc power supply.

D1, D2: Decoder Bus Data. RS-485.

2.6: MDS Audio Panels.

2: Entry Panel Audio Direction

6: residence direction.

CN2: VDS System.

+, -: 18 Vdc power supply.

L: VDS bus data and audio.

Ct: Video activation.

standby: 0v

active: 12Vdc. Max. 100 mA

S: Video switcher activation. Active open collector with active decoder. Max 100mA.


CN3: PC-Decoder interface connector for PC programming.

A. MDS Bus Connector




B. VDS Bus Connector




LED Signals (activity).

* NOT Powered Up / NOT Programmed.


-  - Off, with the power supply connected: Indicates that the decoder has not been programmed yet.
- off - Off: indicates that the power supply is not connected.

* DAY/NIGHT Mode on Guard Unit.

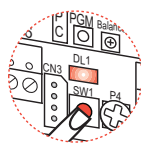

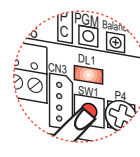












-  3s  3s  - DAY Mode: 2 flashes every 3 seconds: Indicates that the decoder is programmed and is in day mode (on an active guard unit).

-  3s  3s  - NIGHT Mode: 1 flash every 3 seconds: Indicates that the decoder is programmed and is in night mode (on an active guard unit).

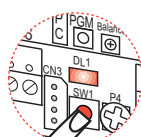






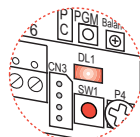














* "In Programming" Mode".

-  - On: indicates that the decoder is in programming mode.

* Mode Check: range / 8 way decoder: Press the programming button and the led will remain on, once re-pressed to exit programming mode. *Note: This operation can be carried out at any point without altering the decoder's functioning.*

-          - RANGE Mode: two bursts of quick flashes
-       - DECODER 8 Mode: a burst of flashes

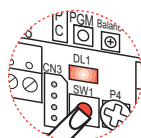
* "Deferred Programming" Mode: Hold the programming button down for a number of seconds (approx. 5 seconds), (when the decoder is programmed) until the led starts to flash continuously. Then the button can be released. While in this mode and as the terminals are being programmed, the led will flash quickly on a continuous basis until we exit this mode, for a period (approx. 2 minutes) or by pressing PGM. *Note: This programming option is only available on the 8 way decoder.*

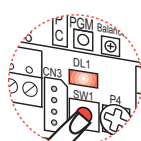
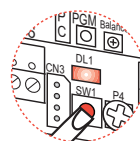
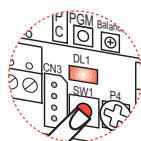
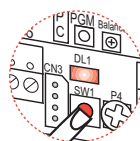
-                      

approx. 5 secs

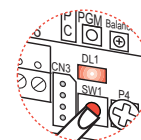
PGM Programming Button (mode changing/selection).

There are 3 different options for pressing the button.

-  - SHORT press: To enter programming mode, use a short press, (as used on previous decoder versions).

-     - 4 SHORT consecutive presses: To change from range / 8 way decoder mode, press the programming button four times QUICKLY and CONSECUTIVELY.

* *Note: every time we switch from range/8 way decoder mode, the led lets us know our current status. **Important: a change in status means the addresses will be deleted.***

-  - LONG Press: to enter deferred programming mode, hold the button down for 5 seconds until the led starts to flash. (Only available on the 8 way decoder).

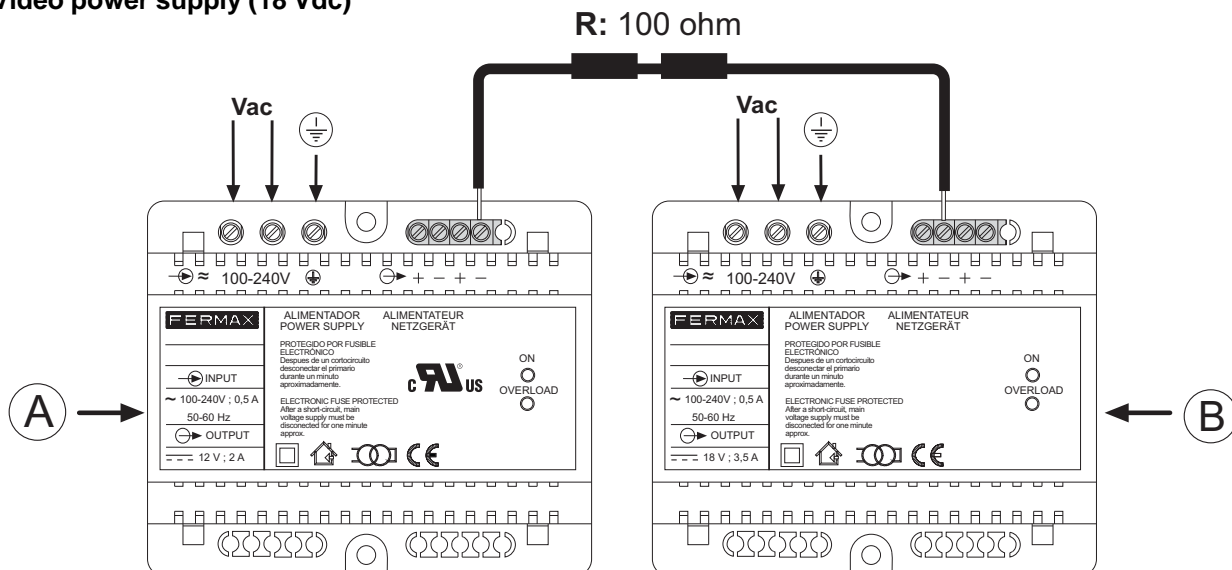
approx. 5 secs

Resistor connecting the negatives between power supplies in the MDS General Entrance

En In VIDEO installations with a Decoder version V10.26 or greater, a bridge should be made between the power supply negatives of the MDS General Entrance via the 100 Ohm resistor.

A. Audio power supply (12 Vdc)

B. Video power supply (18 Vdc)



Operation as a range decoder - MDS-VDS System

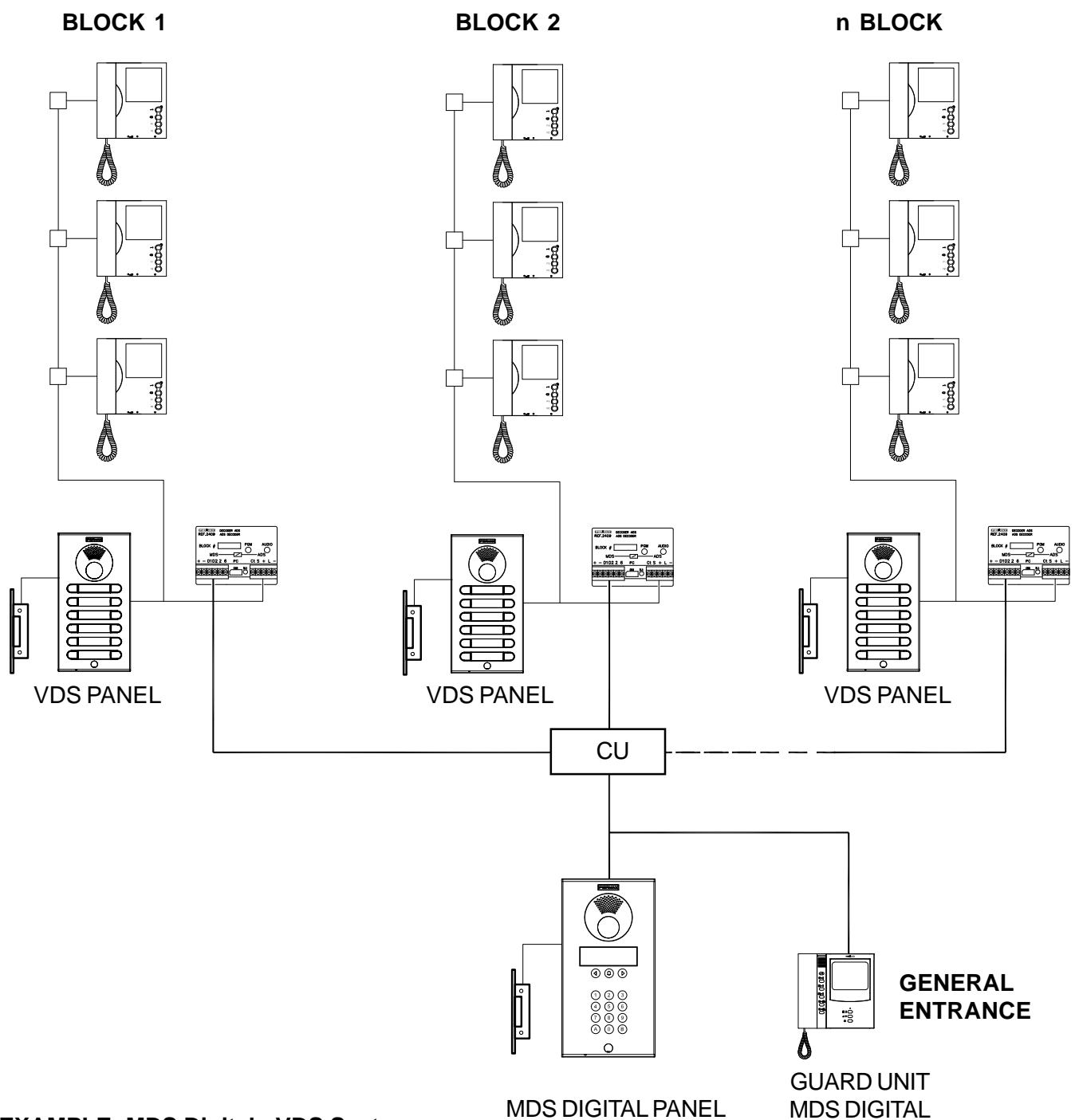
This device is typically used to enclose various VDS blocks with one or various general entrances and a general guard unit. . The system within the block is entirely VDS, and uses typical VDS components, while MDS elements are used for General Entrances.

This device is typically used to enclose various ADS blocks with one or various general entrances and a general guard unit. . The system within the block is entirely VDS, and uses typical VDS components, while MDS elements such as panels are used for General Entrances.

MDS DIGITAL + MDS DIRECT

MDS DIRECT panels can be used on general entrances (up to a maximum of 5) and configured as general entrance panels and/or MDS DIRECT guard units.

An MDS Digital central unit can be used on General Entrances and digital panels with an electronic directory and/or central guard unit connected to it. In this case we can connect up to 10 central guard units and up to 32 panels. You can also make use of all the additional functions an MDS Digital central unit offers: electronic directory, alarm sensors, building automation, access control, lift control, etc....



EXAMPLE: MDS Digital - VDS System

Overview

This device has been designed to combine General Entrances MDS and VDS Interior Blocks.

Conversations within each block are independent, they can be held simultaneously with the entry panel or the general entrance (either of these), this is because the VDS Decoder also acts as an audio changer, which when in standby mode isolates audio within the block from the general entrance allowing the interior panels (VDS) to hold independent conversations between their various residences. In this way it is possible to maintain simultaneous conversations in different blocks, each one with their own interior panel. When a call is made from the general entrance to one of the block's residences the decoder connects the audio to the general entrance. If the call from the general entrance is directed to another block the decoder disconnects the changer in such a way that the block's audio is isolated once again.

The VDS decoder should be installed preferably where the interior block power source is installed, together with the video switcher where applicable. It is very important to use a power source for every interior block to avoid interference between the signals generated from one block (calls, call confirmation tones, calls to guard unit etc).

A VDS decoder can manage between 1 and 199 residences (maximum allowed by VDS) depending on how it is configured.

There can be various construction types, even within the same building.

- Type A: Individual Chalets. This is the simplest case. A VDS decoder is used which responds to a unique chalet address. The decoder output is set up in parallel with the chalet's VDS kit panel and the residential terminal.

- Types B, C or D. Residential Buildings There are various options depending on each building's capacity. The logical thing is to choose certain digits to identify the block and others for the residences within the block.

Each residence has an assigned 4 digit call code for calls made from the general entrance panel. These digits can be assigned in the following manner:

	Call Digits	No of Blocks	No of residences/per block	Total
residences				
Type A (*)	VVVV		9999 (0001..9999)	9999
Type B (*)	BVVV	10 (0 .. 9)	199 (001..199)	1990
Type C:	BBVV	100 (00 .. 99)	99 (01 .. 99)	9900
Type D (*)	BBBV	1000 (000..999)	9 (1 .. 9)	9000

B: Block Digits.

V: Residence Digits

Type A -> Individual Residences Maximum per development: 999 chalets/residences.

Type B -> Large Blocks (more than 100 residences). Maximum per development: 10 blocks with 199 residences per block, (allows you take advantage of the VDS system's maximum capacity, 199 residences in each block).

Type C -> Medium Sized Blocks. Maximum per development: 100 blocks with 99 residences per block. The most common type.

Type D -> Small Blocks. Maximum per development: 1000 blocks with 9 residences per block.

(*) Note: these options can only be used if MDS Digital Interior Blocks are used in the system (1 Decoder per central unit). See advanced diagram in the MDS-VDS Technical Manual code. 97002b.

The conversation time between the panel and the residence is limited:

- by the "maximum conversation time" parameter on MDS panels (which can range from 10 seconds to 4 minutes).
- by the VDS terminals' own time settings (which limit the maximum conversation time to 90 seconds).

The time set will be the lower of these two.

If a call is made from an interior panel and then you try to call the same block from the MDS Digital general entrance, the MDS Digital general entrance panel will indicate that the audio line is busy, to facilitate internal communication. This time is set as the minimum conversation time established on the MDS Digital system.

VERY IMPORTANT

Calls from VDS interior panels can NEVER bypass the general entrance guard unit, nor can calls be made from these interior panels to the guard units.

The limitations inherent to the VDS system within each block must be kept in mind (distance, section, power supply).

Communication cannot be established within two residences even where an MDS guard unit is used, because the VDS system does not facilitate it.

*The VDS Decoder can act as a **mainpanel**, (it allows the user programme residential terminals from the general entrance panel/guard unit) or **alternatively as a secondary panel**, (allows the user to programme residential terminals from the Interior Block's VDS panel). See programming section.*

When calling residential terminals from the block programmed as 0, you don't need to key in the initial zeros.

*The VDS decoder in **version V10.26** or above, responds to a **range of telephone systems** which should be programmed with an initial and final value (the same as previous versions).*

1 MDS Repeater will be needed Ref. 2339 where the MDS BUS includes more than 128 VDS Decoders, (1 Repeater will be connected every 128 decoders).

Audio Balance Adjustment:

Only adjust this control if there is whistling or screeching during the conversation, when making calls from the General Entrance (3).

To facilitate this, use a VDS telephone connected between the "+", "L" and "-" terminals on the corresponding VDS Decoder (B).

Audio levels in the "entry panel - residence" and "residence - entry panel" direction can only be adjusted using the potentiometers located on the corresponding entry panel's amplifier.

Remember that before programming, the decoder should be in RANGE Decoder MODE

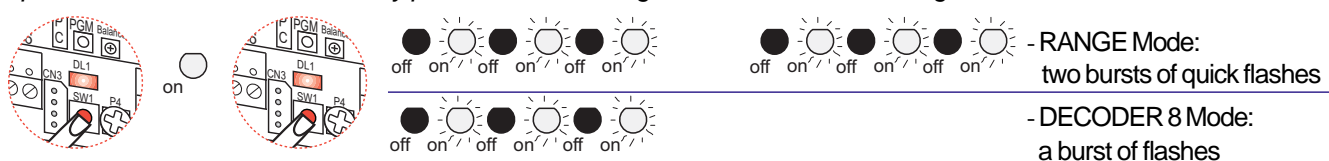
The VDS decoder in **version V10.26** or above, can work in 2 different ways:

1. It responds to **a range of telephones** which should be programmed using a starting value and an ending value. (the same as previous versions).
2. On an MDS system it acts as a 8 output audio decoder. **(New function!!!!!!!!!!)**

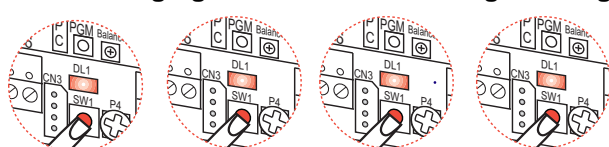
The decoder comes configured by default as a range decoder.

Mode Check: range / 8 way decoder

Press the programming button and the led will remain on, once re-pressed to exit programming mode. *Note: This operation can be carried out at any point without altering the decoder's functioning.*



Mode Changing / Selection. PGM Programming Button



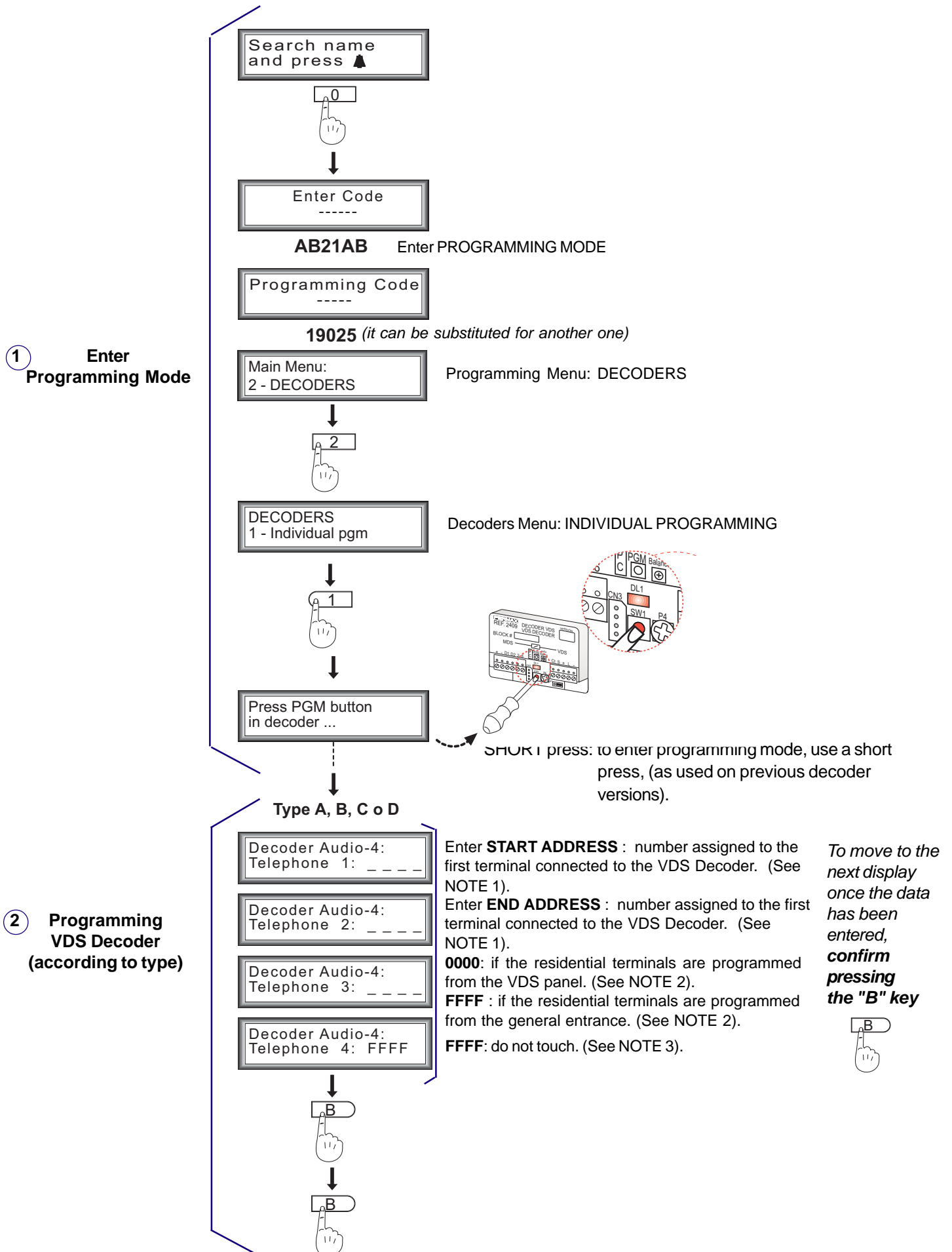
- 4 SHORT consecutive presses:

To change from range / 8 way decoder mode, press the programming button four times QUICKLY and CONSECUTIVELY.

* *Note: every time we switch from range/8 way decoder mode, the led lets us know our current status. **Important: a change in status means the addresses will be deleted.***

MDS-VDS SYSTEM PROGRAMMING

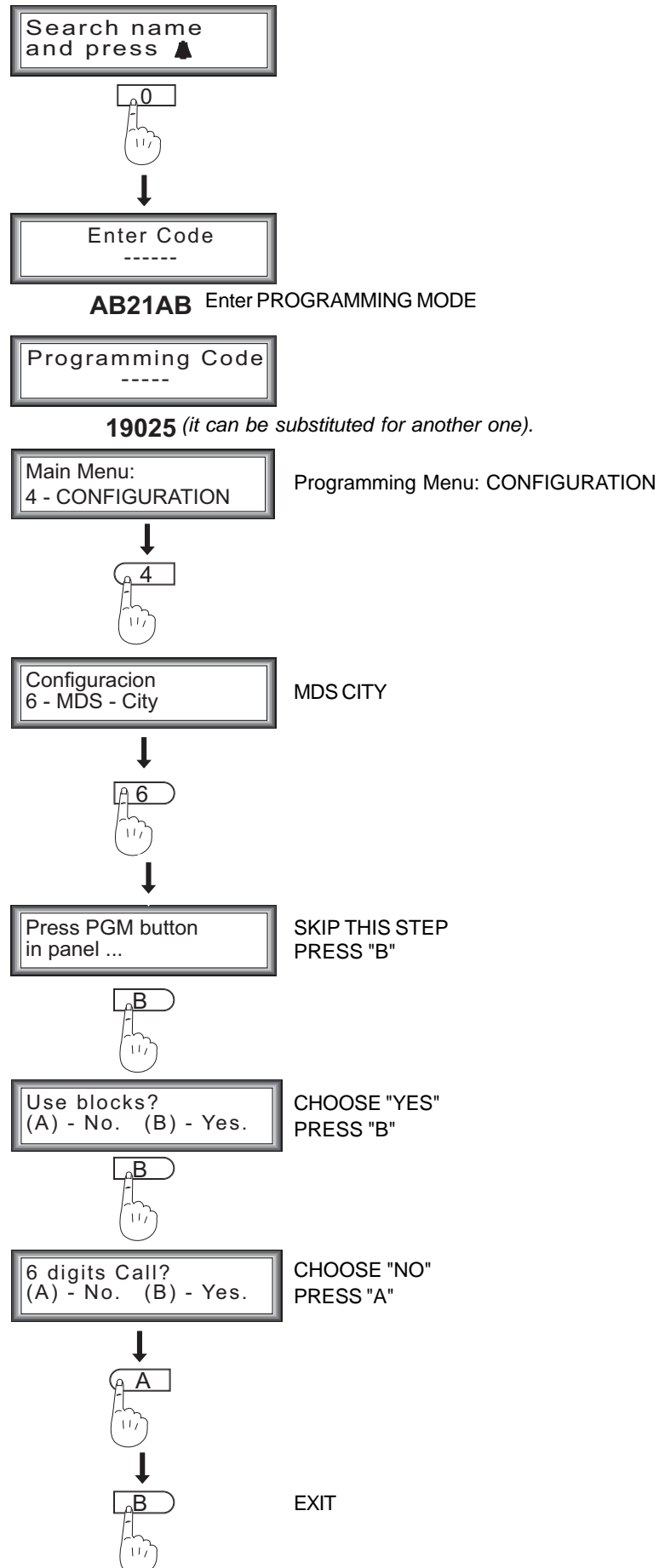
Programming the VDS DECODER (as range) from the MDS DIGITAL panel (Cityline / Classic Cityline)



See NOTES

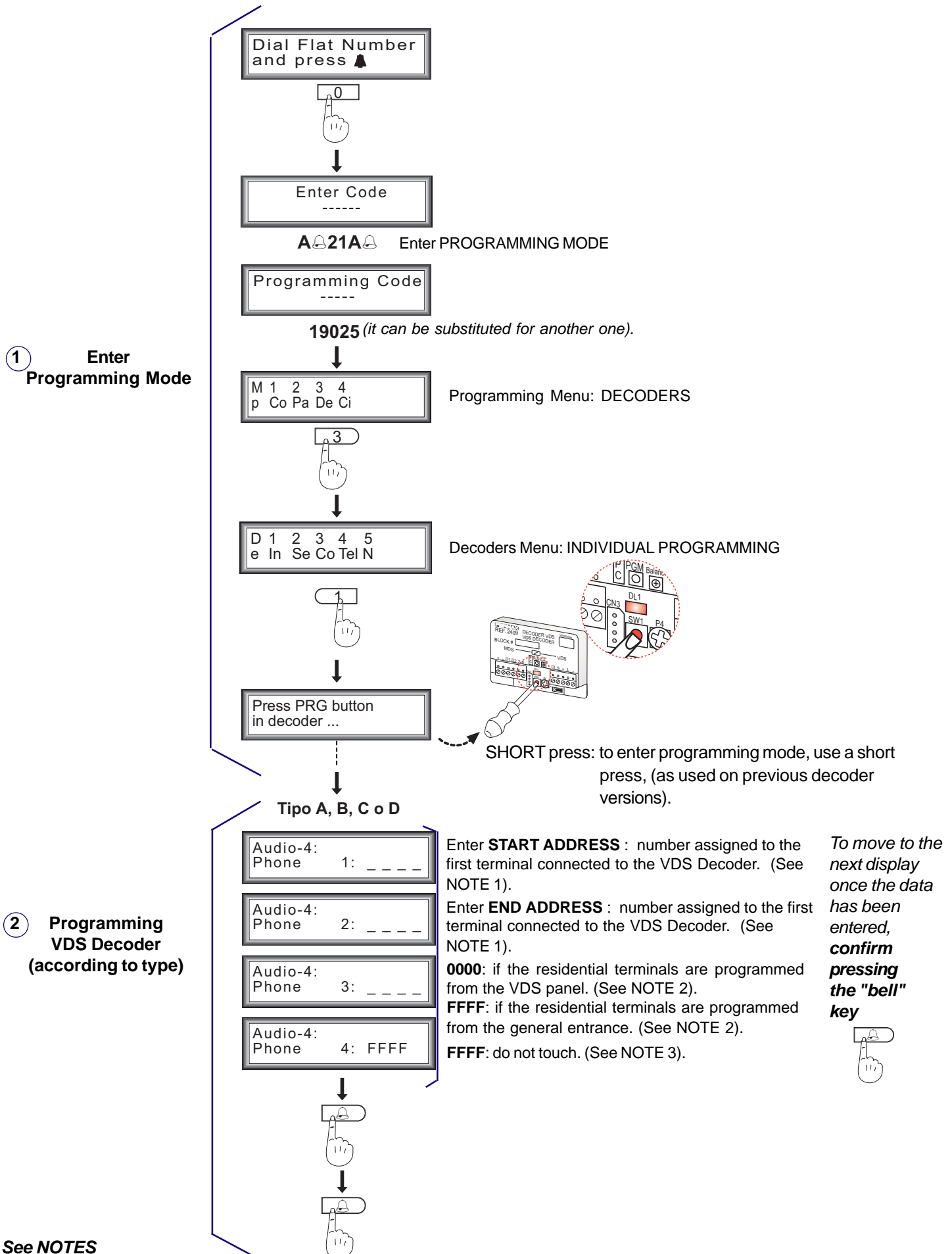
Appendix I: Interior Block Programming under Option "C" via the MDS Digital Panel

As described above there can be different types of set-up. If you choose option C, the Interior Block option should be selected via the MDS DIGITAL Panel, as detailed below.

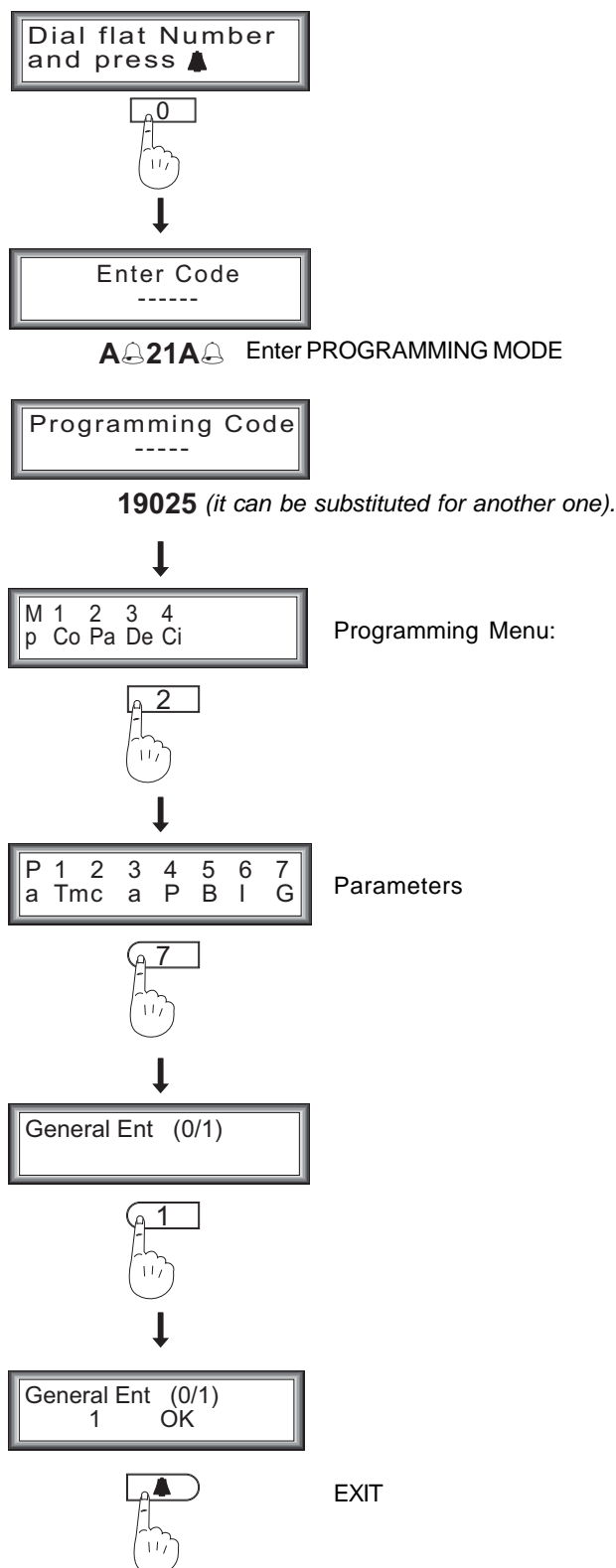


Programming the VDS DECODER (as range) from the MDS DIRECT panel (Cityline / Classic Cityline)

The MDS DIRECT Panel should be programmed as a General Entrance. See programming on the next page.



Appendix I: Programming using the MDS DIRECT panel as a General Entrance

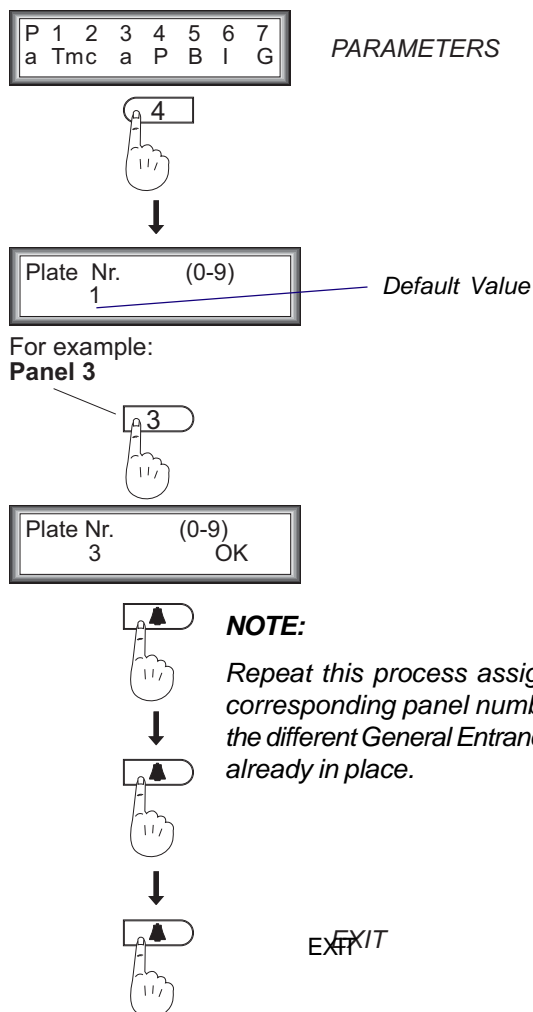


VERY IMPORTANT

If there is an MDS DIRECT General Entrance and an MDS DIRECT Guard Unit, the General Entrance panel(s) should be programmed from 1 upwards. They should NEVER be programmed with a 0 value.

NOTE:

If you have more than one General Entrance (MDS DIRECT), the number corresponding to each of the panels should be programmed by following the steps below:



NOTE 1 -> DECODER Address based on the set-up type (A, B, C or D):

	TYPE A	TYPE B	TYPE C	TYPE D
Features	Individual Chalet or Residence	Large Blocks - 199 Residences per block - 9 Blocks	Medium Sized Blocks - 99 Residences per block - 99 Blocks	Small Blocks - 9 Residences per block - 999 Blocks
Start Address	<i>i i i i</i>	<i>B i i i</i>	<i>B B i i</i>	<i>B B B i</i>
Final Address	<i>f f f f</i>	<i>B f f f</i>	<i>B B f f</i>	<i>B B B f</i>

i i i i = f f f f

B = Block no.

B B = Block no.

B B B = Block no.

Audio-4:
Telefono 1: _ _ _ _

Start
Address

Audio-4:
Telefono 2: _ _ _ _

Final
Address

Observations:

You can mix different types of set-ups within the same development but always respecting the following LIMITATIONS:

- a.) - Up to 9 Type B Blocks, (max. 199 Residences per block).
 - Up to 99 Type C Blocks, (max. 99 Residences per block).
 - Up to 999 Type D Blocks, (max. 9 Residences per block).
 - Up to 9999 Type A Residences, (max. 9999 Individual Chalets or Residences).
- b.) The same address should not be repeated on 2 different decoders, even where different TYPES of set-ups are used.

Example: Cannot co-exist

BLOCK 1

and

BLOCK 11

as both have the address 1115.

RESIDENCE 115

RESIDENCE 15

NOTE 2 -> The value is assigned.

- **0 0 0 0**, if the residential terminals (telephone systems/monitors) are going to be programmed via the **Interior Block's VDS panel**. See the section on programming the residential terminals from the interior block.

- **F F F F**, if the residential terminals (telephone systems/monitors) are going to be programmed via the **General Entrance panel or guard unit**. See the section on programming the residential terminals from the general entrance.

Audio-4:
Telefono 3: _ _ _ _

NOTE 3 -> Leave UNPROGRAMMED (F F F F).

If this value has been changed accidentally, it can be re-assigned the F F F F value:

- via the MDS DIGITAL panel, using the bell key.
- via the MDS DIRECT entry panel, press the "A" button on the keypad module.

To programme the VDS DECODER you must have the following software:

- * MDS DIRECT entry panel version 2.5 or above.
- * MDS DIRECT guard unit version 2.5 or above.

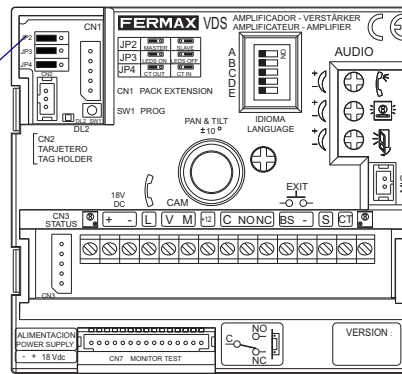
Audio-4:
Telefono 4: FFFF

VDS DECODER Programming via PC

- Connect the decoder-PC interface to the CN3 connector. The decoder should use a +12V power supply on CN1. (+, -). CN2 does not need to be powered up (+18V).
- Start up the "Decowin" programme and select the "Decoders" "Programming" "Individual" option.
- Follow the programme instructions. Request our DecoWin Programming Manual.

Programming VDS residential terminals via the interior blocks' VDS panel, monitors and telephones.

Leave the JP2 switch in place as the MAIN Panel



Configuration switch:

JP2 : Main/Secondary Panel Selection Switch

Main Panel

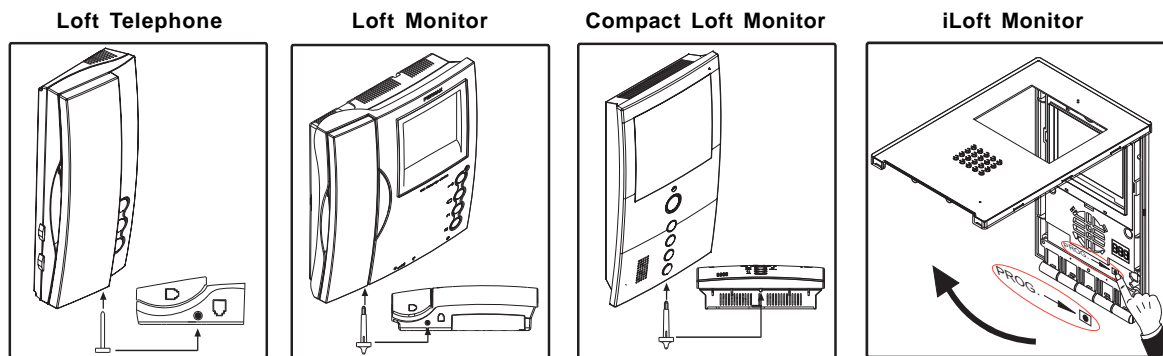
Secondary Panel

The programming procedure for VDS terminals is the same for monitors and telephones.

The residential terminals will not function if they have not been programmed

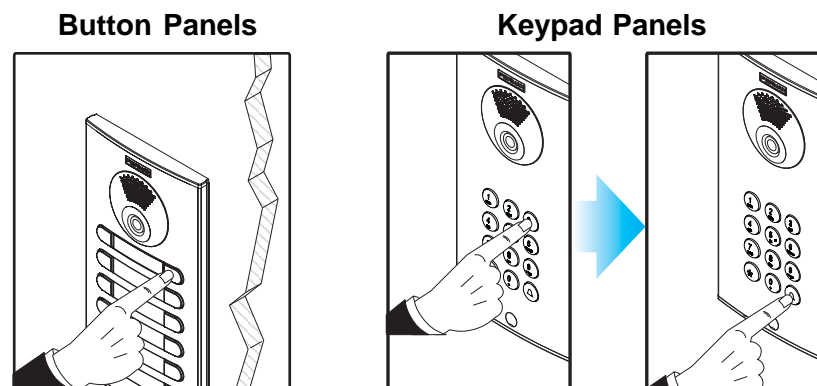
Terminal programming is carried out in 2 steps:

1.- Terminal Programming Setup:



Press the monitor programming setup button.

2.- Allocation of Call Codes



Press the residence's call button

Using the keypad, enter the call code and press the bell

A time period of 2 minutes exists within which to carry out step 2 after terminal programming setup.

Once this time has passed, the terminal will exit programming mode.

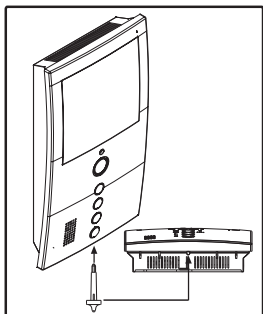
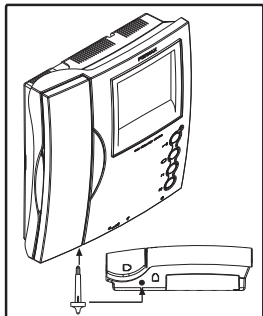
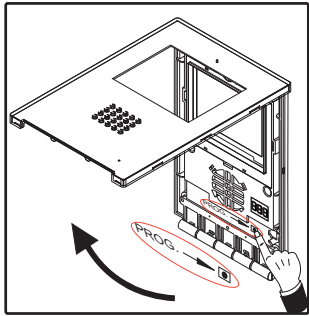
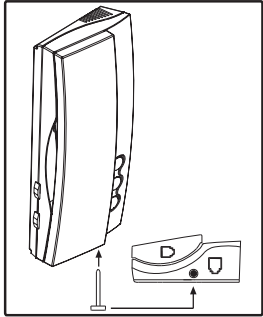
The Loft Compact and iLoft monitors have an additional function which enables monitor programming from the same monitor, without having to carry out any operation from the outdoor entry panel.

It is recommended that each of the Interior Block's residences are programmed from 1 upwards.

A detailed description of the features and functions corresponding to each terminal is given in the technical documentation:

Manuals available on the Fermax website: www.fermax.com.

VDS residential terminal programming via the General Entrance MDS DIGITAL Panel



Press the programming set-up button on the telephone or monitor.



Search name
and press ▲

0

Enter Code

AB21AB

ENTER
PROGRAMMING MODE

Programming Code

19025

(it can be substituted for another one)

Main Menu
2 - Decoders

2

DECODERS MENU

Decoders
4 -Pr. Telephone

4

PROGRAMMING
TELEPHONE

**Attended
Programming**

Prog. Telephone
1-Pr. Attended

1

Press lock release
in telephone ...

See NOTE 1

Original: - - - -
New : 0 0 0 0

See NOTE 2

B

to do again

**Sequential
Programming**

Prog. Telephone
2-Pr. Sequential

2

Starting Number:
0000

B

Press lock release
in telephone ...

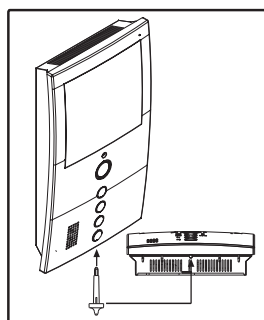
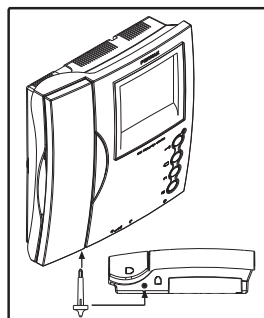
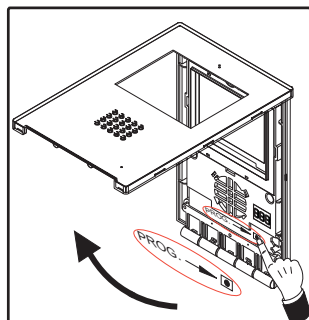
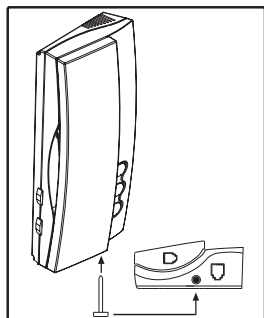
See NOTE 1
to do again

B

FINISHED OPERATION

See NOTES

Residential terminal programming via the General Entrance MDS DIRECT Panel



Press the programming set-up button on the telephone or monitor.



Dial Flat Number
and press

0

Enter Code

A 21A

ENTER
PROGRAMMING CODE

Programming Code

19025 (it can be substituted for another one)

M 1 2 3 4
p Co Pa De Ci

DECODERS MENU

3

D 1 2 3 4
e In Se Co Tel

PROGRAMMING
TELEPHONE

4

Telephone Prog.
1- Manual, 2-Auto.

Manual
Programming

1

Auto
Programming

2

Press open door
in telephone ...

See NOTE 1

Original: - - - -
New : 0 0 0 0

See NOTE 2

to do again

Starting code: 0000

Press open door
in telephone ...

See NOTE 1

to do again

FINISHED OPERATION

See NOTES

NOTES:

Remember that if you want to start the programming process from an MDS panel (including guard units) the VDS decoder must have been pre-programmed as detailed under the "VDS DECODER Programming" section, (Telephone 3: FFFF).



First make a call from the entry panel to any address in this block to activate the audio channel.

Telephone systems programmed with the sub-option "ANSWERED" will need one person on the entry panel and another person to go from residence to residence. A conversation can be held between the person on the entry panel and the residence to indicate what residence the other person is in.

Telephone systems programmed with the sub-option "SEQUENTIAL" should use consecutive numbers and just need one person to go from residence to residence.

NOTE 1-> A message reading "press lock-release button on telephone system" will appear, but actually you will need to press the programming button on the monitor or telephone.

NOTE 2-> The telephone's current number will appear on the panel, or alternatively will be set to 0000 if it hasn't yet been programmed.

Operation as a 8 way audio decoder - Overview

The VDS Decoder can also function from an MDS point of view as an 8 way audio decoder. It can store up to 8 MDS addresses which are associated with the VDS addresses (from 1 to 8 exclusively).

It connects to the MDS and VDS buses to translate the MDS commands to VDS and adapt one system's audio to the other's. Allows the use of non-consecutive residential codes and is limited to 8 residences per decoder. Free spaces can be kept in the memory.

Programming can be done in different ways:

1. Decoder Programming.

The decoder can be programmed in isolation by using individual or sequential programming.

2. Programming residential terminals.

Residential terminals can be programmed directly from the MDS general entrance panel. Both the terminals and the decoder will be programmed during this process.

VERY IMPORTANT

- In this case VDS addresses are associated with MDS addresses in chronological order: the first terminal programmed is set up under VDS address 1, the second under address 2 etc.
- If an MDS address is repeated during the programming process, a new VDS address will not be assigned, instead the same previously assigned VDS address will be used, that is it will be considered a second terminal within the same residence.

3. Deferred Programming.

The decoder can also be programmed as the number 1 point, outside the system, then can be connected to the system and the addresses programmed on the decoder can be "downloaded" to the residential terminals.

Once set up on the system, press and hold the button (to enter deferred programming mode, hold the button down for 5 seconds until the led starts to flash), from this point on, every time you press the programming button on a terminal, the first programmed address will be assigned. Press the next terminal and the second address will be assigned and repeat up to a maximum of 8.

4. Reprogramming.

This is an option if you want to reprogramme the decoder once the decoder telephones have been programmed, either as a result of extending the system or a change in the residential codes.

If the telephone to be programmed is new, this can be done as detailed in point 2 or 3.

If the telephone has already been programmed with both an MDS address and a VDS equivalent on the decoder, the decoder recognises that the terminal has already been programmed and while it will change the MDS address it will store the VDS one.

If we want to number the VDS and MDS addresses, without considering what was previously saved, we must use deferred programming (point 3). The decoder will be programmed first with the addresses and when this information is downloaded to the terminals all previous addresses will be deleted.

Remember that before programming, the decoder should be in 8 WAY Audio DECODER MODE

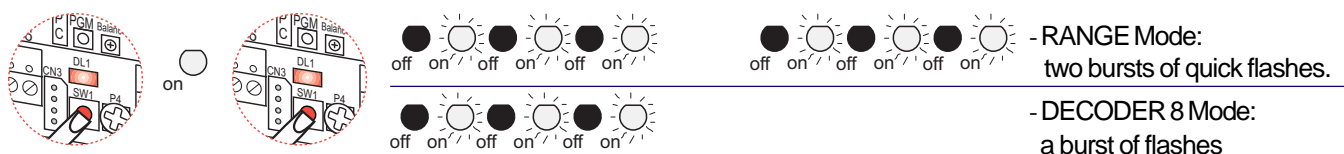
The VDS decoder on **version V2.5** or above, can work in 2 different ways:

1. It responds to **a range of telephones** which should be programmed using a starting value and an ending value (same as previous versions).
2. On an MDS system it acts as a 8 output audio decoder. **(New function!!!!!!!!!!)**

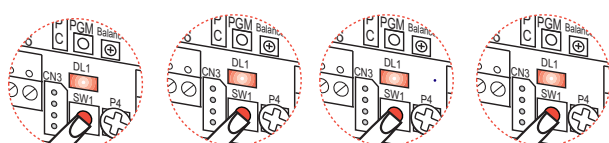
The decoder comes configured by default as a range decoder .

Mode Check: range / 8 way decoder

Press the programming button and the led will remain on, once re-pressed to exit programming mode. *Note: This operation can be carried out at any point without altering the decoder's functioning.*



Mode Changing / Selection. PGM Programming Button



- 4 SHORT consecutive presses:

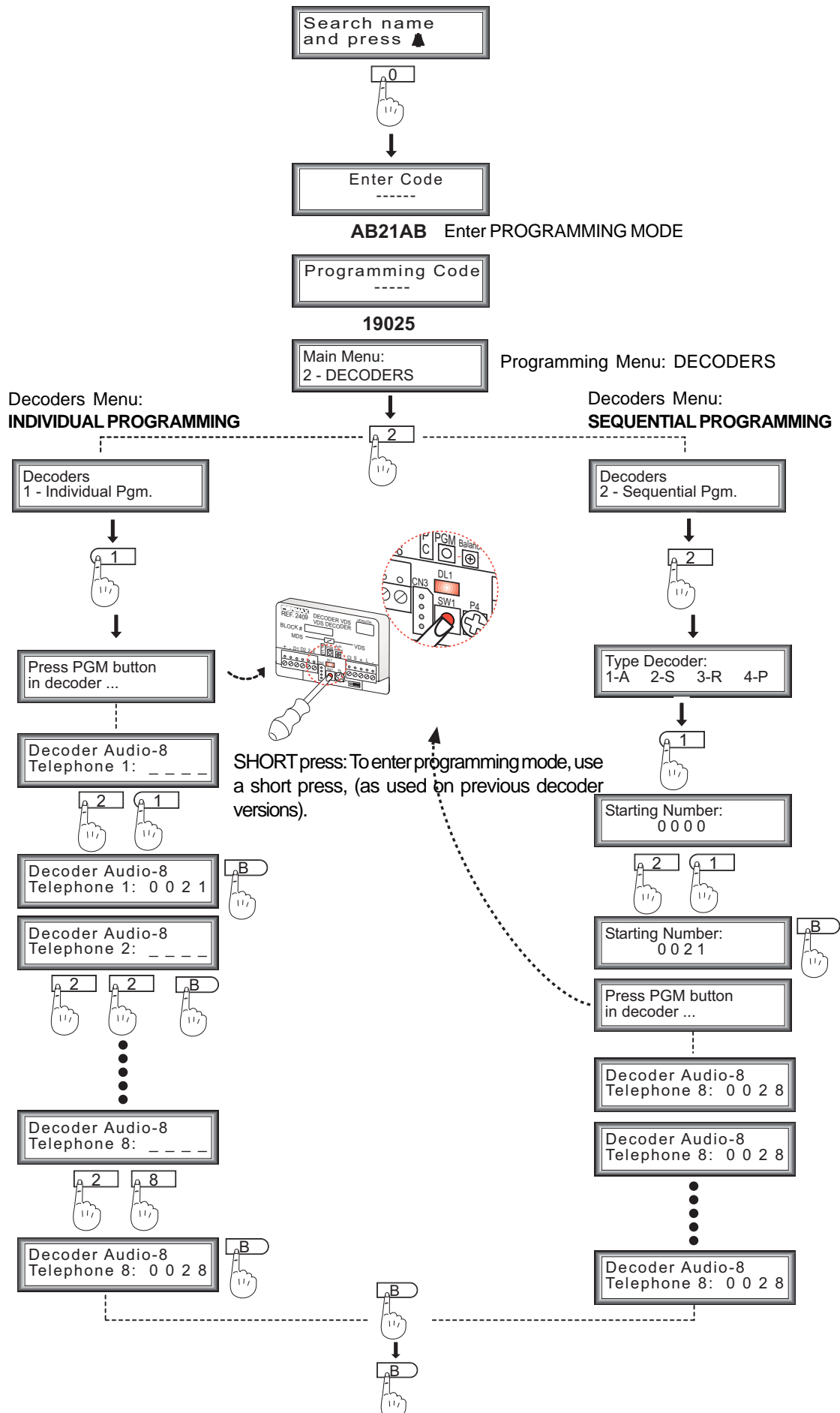
To change from range / 8 way decoder mode, press the programming button four times QUICKLY and CONSECUTIVELY.

* *Note: every time we switch from range/8 way decoder mode, the led lets us know our current status. **Important: a change in status means the addresses will be deleted.***

1. Programming the VDS DECODER (as an 8 way decoder) from the MDS DIGITAL panel (Cityline / Classic Cityline)

1. Decoder Programming.

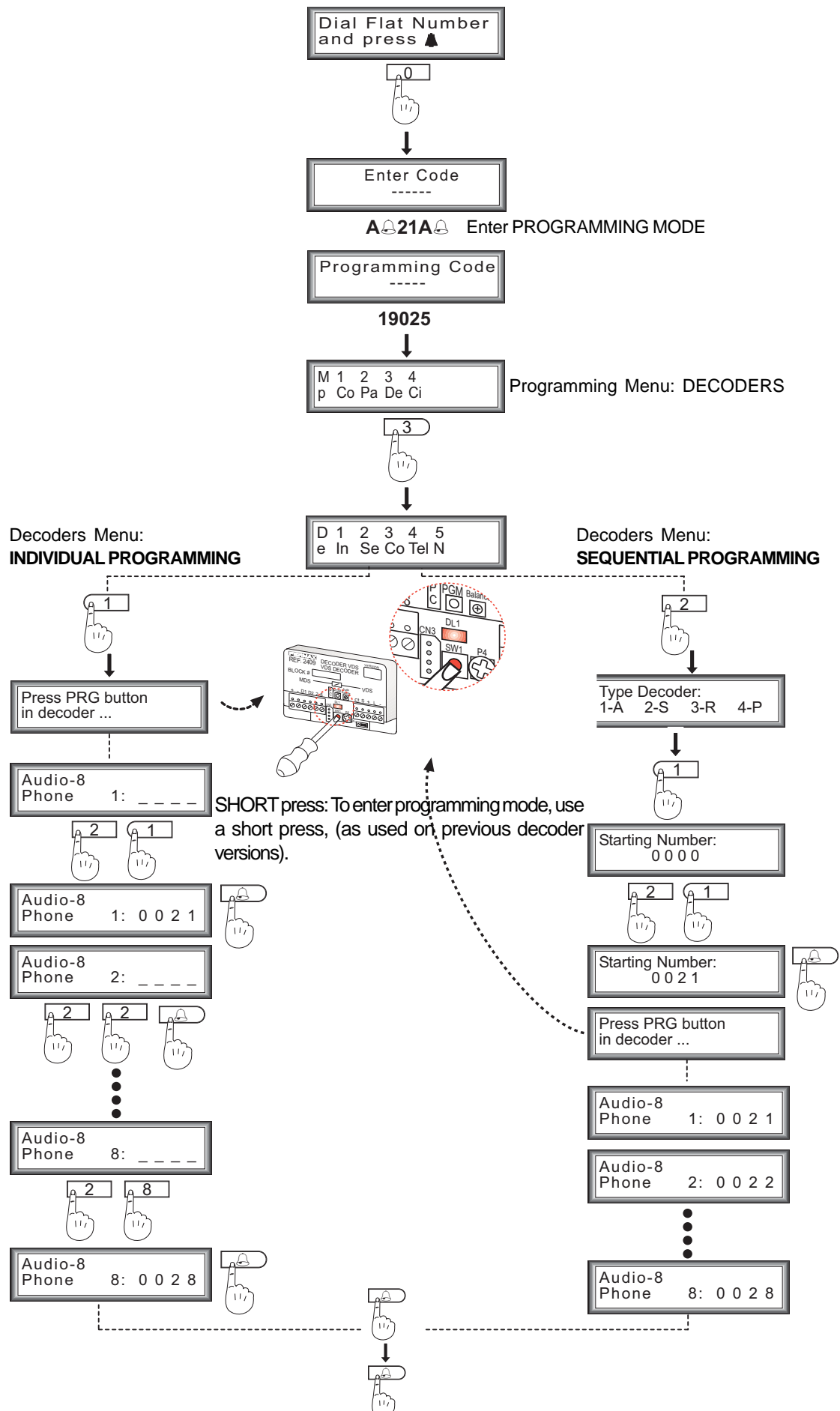
The decoder can be programmed in isolation by using individual or sequential programming.



1. Programming the VDS DECODER (as an 8 way decoder) from the MDS DIRECT panel (Cityline / Classic Cityline)

1. Decoder Programming.

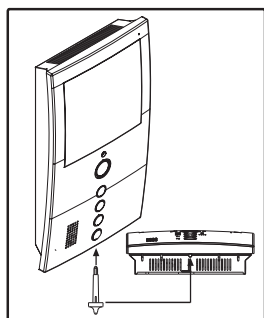
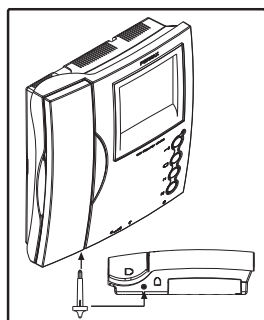
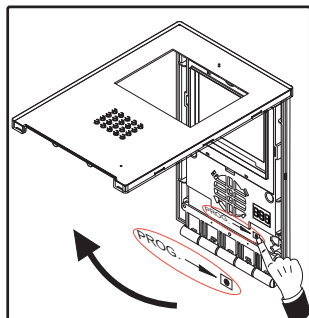
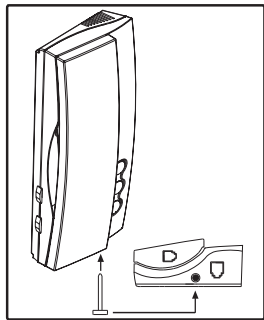
The decoder can be programmed in isolation by using individual or sequential programming.



2. Programming RESIDENTIAL TERMINALS and the VDS DECODER (as an 8 way decoder) from the MDS DIGITAL General Entrance Panel (Cityline / Classic Cityline)

2. Programming residential terminals.

Residential terminals can be programmed directly from the MDS general entrance panel. Both the terminals and the decoder will be programmed during this process.



Press the programming button on the telephone or monitor.

Search name and press ▲

0

Enter Code

AB21AB

ENTER PROGRAMMING MODE

Programming Code

19025

(it can be substituted for another one)

Main Menu
2 - Decoders

2

DECODERS MENU

Decoders
4 -Pr. Telephone

4

PROGRAMMING TELEPHONE

Attended Programming

Prog. Telephone
1-Pr. Attended

1

Sequential Programming

Prog. Telephone
2-Pr. Sequential

2

Press lock release in telephone ...

See NOTE 1

Original: - - - -
New : 0 0 0 0

See NOTE 2

B

to do again

Starting Number:
0000

B

Press lock release in telephone ...

See NOTE 1

to do again

B

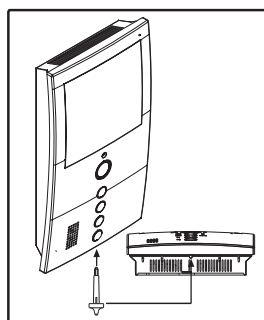
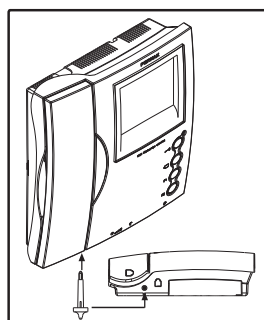
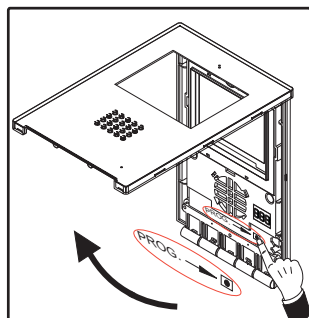
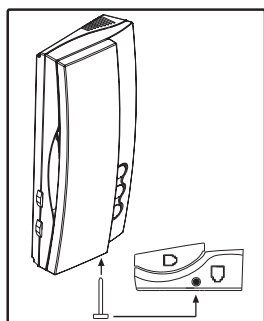
FINISHED OPERATION

See NOTES

2. Programming RESIDENTIAL TERMINALS and the VDS DECODER (as an 8 way decoder) from the MDS DIRECT General Entrance Panel (Classic Cityline)

2. Programming residential terminals.

Residential terminals can be programmed directly from the MDS DIGITAL general entrance panel. Both the terminals and the decoder will be programmed during this process.



Press the programming button on the telephone or monitor.

Dial Flat Number and press

0



Enter Code

A 21A

ENTER PROGRAMMING CODE

Programming Code

19025

(it can be substituted for another one)

M 1 2 3 4
p Co Pa De Ci

DECODERS MENU

3



D 1 2 3 4
e In Se Co Tel

4



PROGRAMMING TELEPHONE

Telephone Prog.
1- Manual, 2-Auto.

Manual Programming

1



Press open door in telephone ...

See NOTE 1

Original: ----
New : 0 0 0 0

See NOTE 2



to do again

Auto Programming

2



Starting code: 0000



Press open door in telephone ...

See NOTE 1

to do again



FINISHED OPERATION

See NOTES

NOTES:

Telephone systems programmed with the sub-option "ANSWERED" will need one person on the entry panel and another person to go from residence to residence. A conversation can be held between the person on the entry panel and the residence to indicate what residence the other person is in. The MDS address is linked to the relevant VDS telephone via this menu. Any of the free memory space at the beginning, middle or end can be kept, but the decoder will never allow you to link the same MDS address to two different VDS terminals.

Telephone systems programmed with the sub-option "SEQUENTIAL" should use consecutive numbers and just need one person to go from residence to residence.

NOTE 1-> A message reading "press lock-release button on telephone system" will appear, but actually you will need to press the programming button on the monitor or telephone.

NOTE 2-> The telephone's current number will appear on the panel, or alternatively will be set to 0000 if it hasn't yet been programmed.

3. DEFERRED Programming of RESIDENTIAL TERMINALS and the VDS DECODER (as an 8 way decoder) from the MDS DIGITAL/MDS DIRECT General Entrance Panel

3. Deferred Programming.

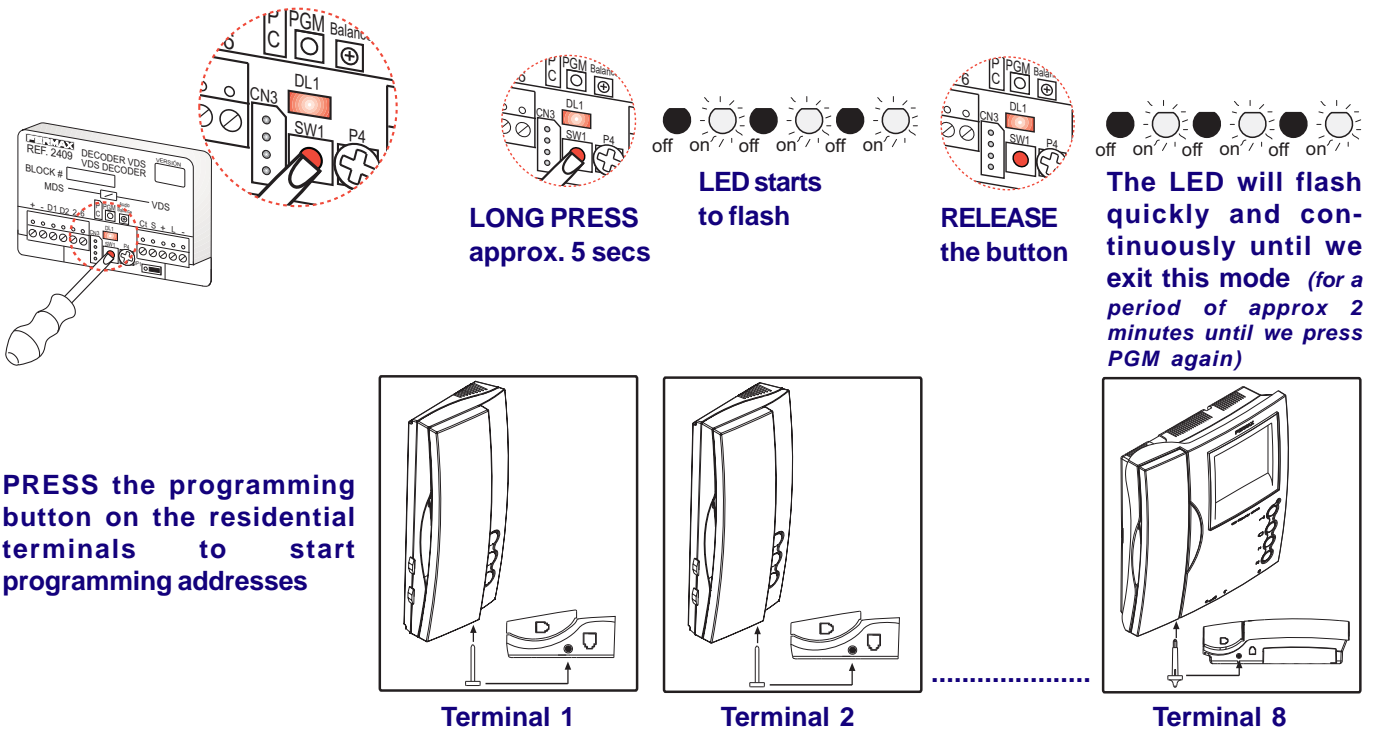
The decoder can also be programmed as the **number 1 point**, outside the system, then can be connected to the system and the addresses programmed on the decoder can be "downloaded" to the residential terminals.

1. Programming the VDS DECODER (as an 8 way decoder) via the MDS DIGITAL panel.

1. Programming the VDS DECODER (as an 8 way decoder) via the MDS DIRECT panel

Once the DECODER has been set up on the system, press and hold the button (to enter deferred programming mode, hold the button down for 5 seconds until the led starts to flash) , *from this point on, every time you press the programming button on a terminal, the first programmed address will be assigned. Press the next terminal and the second address will be assigned and repeat up to a maximum of 8.*

"Deferred" Programming" Mode: Hold the programming button down for a number of seconds (approx. 5 seconds), until the led starts to flash continuously. Then the button can be released. While in this mode and as the terminals are being programmed, the led will flash quickly on a continuous basis until we exit this mode.



Repeat these steps on the next Decoder.

4. Reprogramming

If the telephone to be programmed is new, this can be done as detailed in **point 2** or **3**.

2. Programming RESIDENTIAL TERMINALS and the VDS DECODER (as an 8 way decoder) from the MDS DIGITAL General Entrance Panel

2. Programming RESIDENTIAL TERMINALS and the VDS DECODER (as an 8 way decoder) from the MDS DIRECT General Entrance Panel

3. DEFERRED Programming of RESIDENTIAL TERMINALS and the VDS DECODER (as an 8 way decoder) from the MDS DIGITAL/MDS DIRECT General Entrance Panel

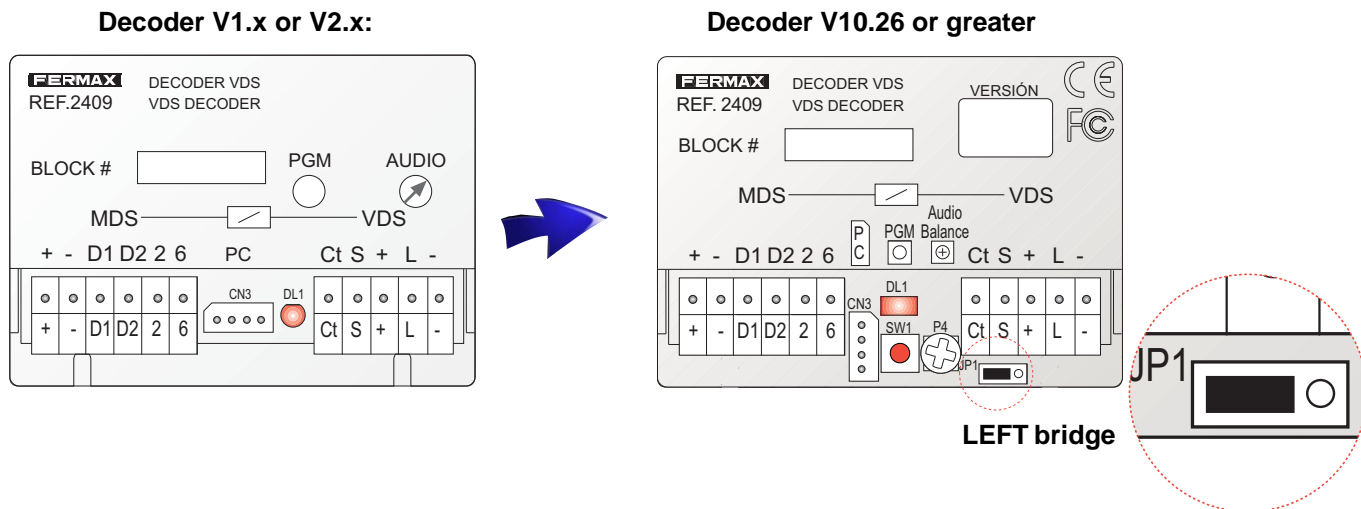
If the telephone has already been programmed with both an MDS address and a VDS equivalent on the decoder, the decoder recognises that the terminal has already been programmed and while it will change the MDS address it will store the VDS one.

If we want to number the VDS and MDS addresses, without considering what was previously saved, we must use deferred programming (point 3). The decoder will be programmed first with the addresses and when this information is downloaded to the terminals all previous addresses will be deleted.

3. DEFERRED Programming of RESIDENTIAL TERMINALS and the VDS DECODER (as an 8 way decoder) from the MDS DIGITAL/MDS DIRECT General Entrance Panel

Substituting the Decoder with version V1.x or V2.x

DECODER version V10.26 (or greater), must has the version selection bridge to the LEFT if substituted for version V1.x or V2.x.



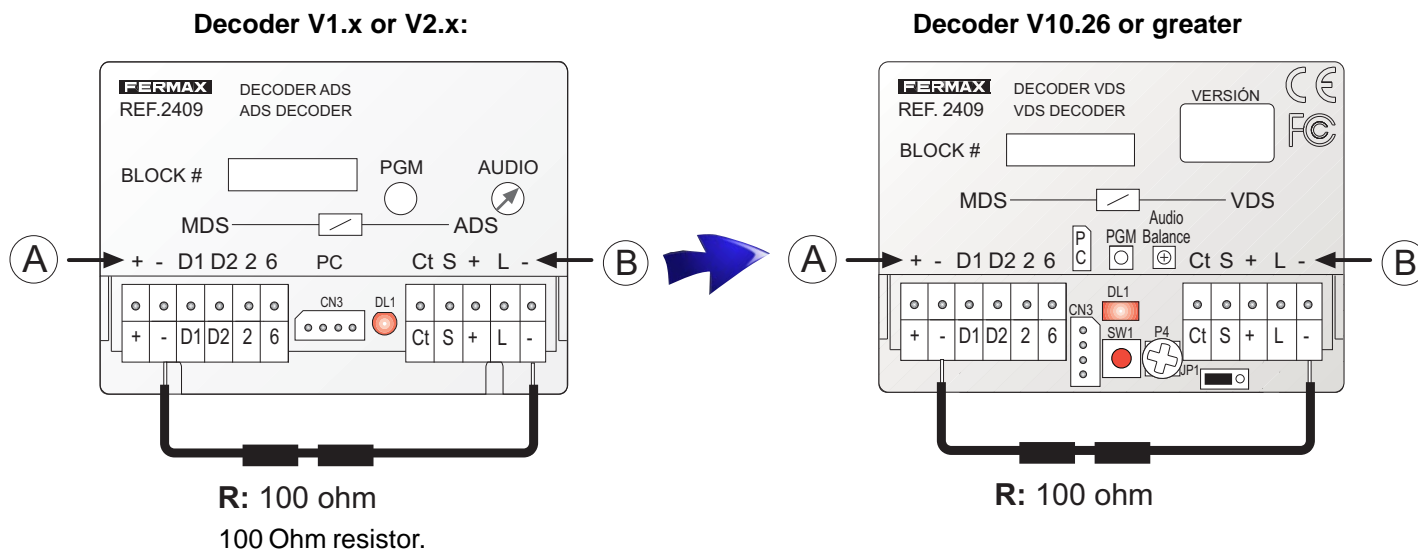
If a 100 Ohms resistor was connected on that previous decoder, due to the installation's requirements, it should remain connected as is.

APPENDIX: Installation Recommendations

MDS-ADS Decoder Resistor ref. 2409 in version V1.x or V2.x

In order to avoid operational problems with your system, a 100 ohm resistor should be installed between the decoder's "-" MDS and "-" ADS terminals by following the steps below:

- 1. VIDEO installations:** The resistor must be installed in the decoder furthest from the General Entrance.
- 2. AUDIO installations:** The resistor must be installed in all decoders within the system.
- 3. MIXED installations:** The resistor must be installed in the same way as on the VIDEO systems.



A. MDS Bus Connector

B. VDS Bus Connector



Audio and Video Door Entry Systems
www.fermax.com | fermax@fermax.com