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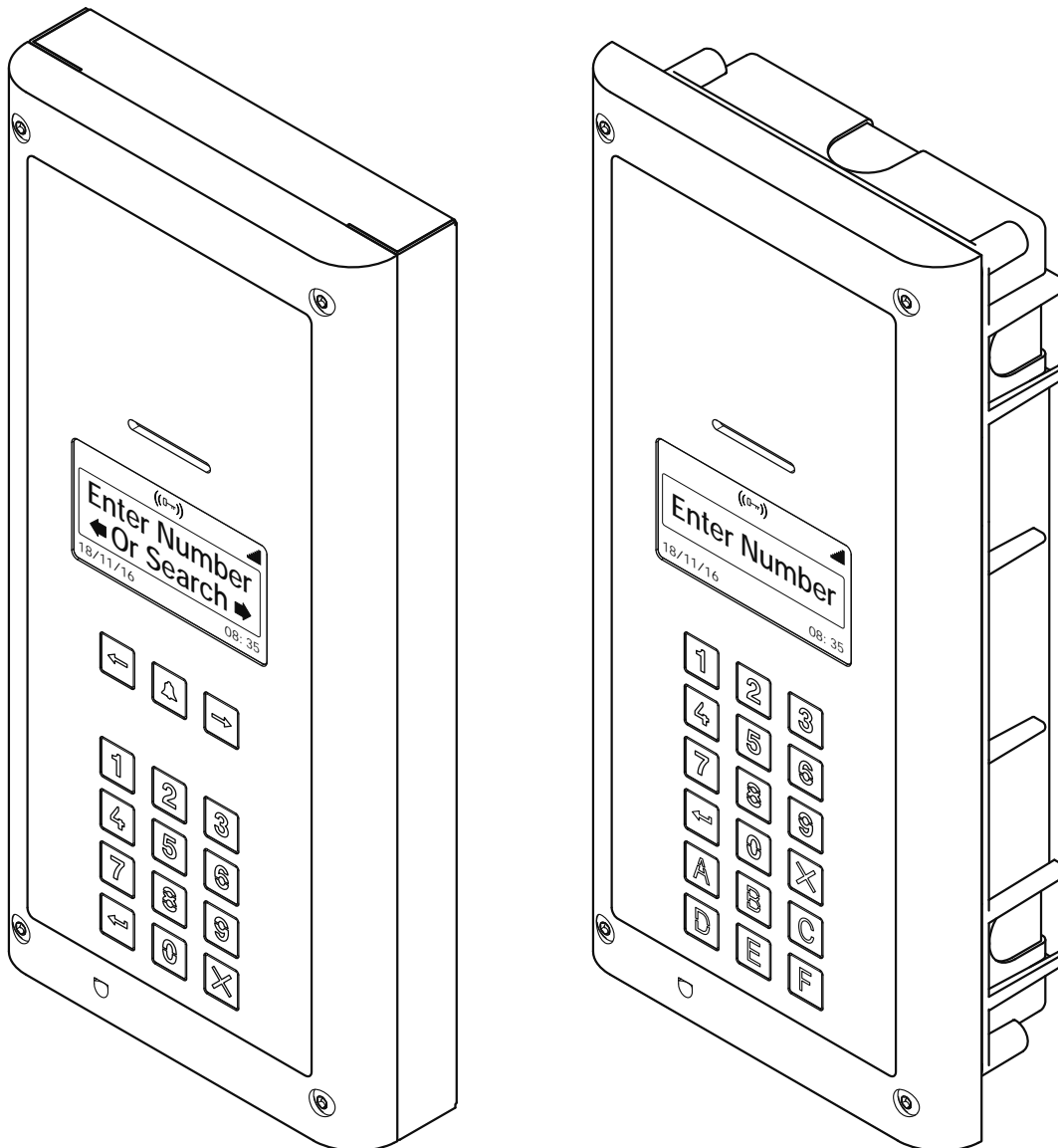
DIGITAL GSM

4000 Series Vandal Resistant Digital GSM Audio Intercom with Proximity

4812 / VR4812
4812R / VR4812R

Enter Number
◄ Or Search ►
18/11/16   08:35

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Technical Manual

⚠ **We recommend**
This equipment is installed by a Competent Electrician, Security or Communications Engineer.

Declaration of Conformity

EU RoHS DECLARATION OF CONFORMITY

2G version

Telit Communications certifies that the GL865-QUAD V3 (Quad Band GSM850/EGSM900/DCS1800/PCS1900 GPRS Wireless Module) is in conformity with Directive 2011/65/EU of the European Parliament and the Council of 8th June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. The conformity with the applicable requirements of the Directive 2011/65/EU has been demonstrated against the following harmonized standard: EN 50581:2012 Technical Documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

3G version

Telit Communications certifies that the UL865-EUR (Dual Band 2G EGSM900/DCS1800 and Dual Band 3G FDD I/FDD VIII Wireless Module) is in compliance with the essential requirements and other relevant provisions of European Directive 1999/5/EC (R&TTE). The conformity with the essential requirements of the Directive 1999/5/EC has been demonstrated against the following harmonized standards:

Article of Directive 1999/5/EC	Harmonized Standard Reference
Health & Safety (R&TTE art. 3.1a)	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC2011 EN 62311:2008
EMC (R&TTE art. 3.1b)	EN 301 489-1 V1.9.2 EN 301 489-7 V1.3.1 EN 301 489-24 V1.5.1
RF Spectrum use (R&TTE art. 3.2)	EN 301 511 V9.02 EN 301 908-1 V5.2.1 EN 301 908-2 V5.2.1

⚠

WARNING!

To comply with FCC RF exposure requirements, a separation distance of 20cm (7.87") or more must be maintained between the antenna of this product and all persons.

Separate FCC approval for this product is not required as it will be classed as a fixed installation.

THIS PRODUCT IS NOT DESIGNED TO BE USED AS AN EMERGENCY CALL POINT.

MANUFACTURER

VIDEX®
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SGS
ISO 9001
Cert. N. IT05/1217

made in
ITALY

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CE The product is CE marked demonstrating its conformity and is for distribution within all member states of the EU with no restrictions. This product follows the provisions of the European Directives 2014/30/EU (EMC); 2014/35/EU (LVD); 2011/65/EU (RoHS): CE marking 93/68/EEC.

Contents

Introduction

MANUAL INTRODUCTION

The information in this manual is intended as an installation and commissioning guide for the Digital GSM audio intercom system. This manual should be read carefully before the installation commences. Any damage caused to the equipment due to faulty installation where the information in this manual has not been followed is not the responsibility of Videx Security Ltd.

It is recommended that the Digital GSM audio intercom is installed by a competent electrician, security or communications engineer.

For UK customers Videx run free training courses for engineers who are unfamilier or who have not installed this system before. Technical help is also available on tel: 0191 224 3174 during office hours (8:30am - 5:00pm MON to FRI) or via e-mail: *tech@videxuk.com.*

A copy of this Technical Manual can also be downloaded from the Videx website: *www.videxuk.com, www.videx.it.*

SYSTEM INTRODUCTION

The vandal resistant digital GSM is designed to work on the same technology as mobile phones. It enables a call to be made from an entry point (door, gate etc), to any telephone number (mobile or land line). Up to 500 users can be programmed into the door panel, each able to call up to four telephone numbers (if the primary number is busy or not answered, the call can be diverted through to up to three different divert numbers). The standard digital GSM intercom works on a 2G network. A 3G variant is also available (suffix **/3G** to the part number e.g. **Art.4812/3G**, **Art.VR4812/3G** etc.).
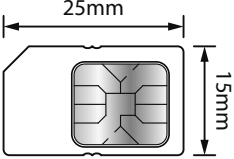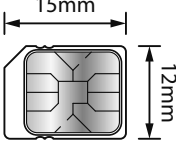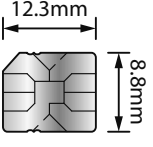
Key features of the system include:

- Vandal resistant brushed stainless steel (2mm thick) front panel.

- Blue back-lit alpha-numeric keypad (for system operation and programming).

- Blue back-lit 128x64 pixel graphical LCD display.

- Speech annunciation.

- Micro-USB connection (for ease of programming using the GSMSK PC software).

- A dry contact relay.

- A switched 0V auxiliary input (AI).

- An open collector auxiliary output (AO).

- Push to exit input.

- Trade input.

- RS485 connection (for ease of programming using the GSMSK PC software).

- Proximity fobs/cards for up to 2000 users.

- DTO (dial to open) facility for up to 2000 numbers.

- 500 programmable users (each with 4 numbers, 1 primary and 3 diverts).

- 500 programmable door access codes (1 code per user).

- 10 timebands (9 of which are programmable).

- Event log for 8000 events.

<u>IMPORTANT NOTE:</u> **Although all the features and general installation instructions mentioned in this technical manual make reference to the Art.4812 and Art.4812R digital GSM intercoms the same features and instructions can also be applied when installing the VR4812 and VR4812R digital GSM intercoms.**

SIM CARD SELECTION

A SIM card is required for this product but not supplied by Videx. The digital GSM intercom can only accept a standard size SIM card (refer to the following SIM card size chart), both a micro-SIM and nano-SIM are not suitable. It is recommended to choose the SIM card which has the best coverage for the area in which the intercom panel will be installed. Both contract and 'Pay as you go' SIM cards can be used, however if using a 'Pay as you go' we would recommend setting up an automatic top up to avoid running short on credit and losing the use of the intercom panel. Alternatively if you already have a contract mobile phone it should be possible to get a second SIM card and telephone number on the existing account. For more information contact the SIM card provider or visit their web sites.

Standard SIM	Micro-SIM	Nano-SIM
25mm / 15mm ☑	15mm / 12mm ☒	12.3mm / 8.8mm ☒

NETWORK PROVIDER SELECTION

It is imperative that for the reliable operation of the system that the best network provider for the area is selected. Problems such as network disconnection can occur if the provider has signal or interference problems for that area. We would recommend using a GSM signal strength meter to survey the intended antenna location. Contact Videx for more information on where to purchase a tester.

For UK customers, as an initial check we also recommend visiting the ofcom website ***www.ofcom.org.uk*** and follow the onsite links to their online mobile coverage tool. This tool will advise on the best coverage for the main network providers and other general queries that you may have about the service provider.

For customers from other countries we suggest consulting the website of the network provider that will be used to check the coverage.

The antenna should always be mounted vertically at the highest point possible. Metal structures and sources of interference such as power cables, control panels etc. can affect signals and so the antenna should be mounted away from these.

PRECAUTIONARY ADVICE

- When mounting the GSM antenna, choose a location which is away from human interaction and away from the intercom panel. Route the GSM antenna cable from the intercom panel so that it is separate from the power supply cables and microphone wire.

- Always ensure the power is switched OFF to the intercom panel before inserting or removing the SIM card.

- New SIM cards will need registering with the network service provider before they can be used. Full details of how this is done can normally be found in the SIM card pack. It will normally require that the SIM card is inserted into a mobile phone, a number dialled and instructions followed. While the SIM is in the mobile phone it would be a good time to disable any PIN codes, call diverts, ring back and disable features such as voicemail and text alerts. Details of how to do this can be found on the SIM card provider's web site or by calling their customer services. Recommended SIM card providers are: Vodafone, T-Mobile, O2 or Orange/EE. **The 3 network can only be used on our 3G devices (see note on page 4 and page 6).**

- To be able to receive text messages from the intercom panel, the SIM card will require an SMS service centre number. This is normally preinstalled on new SIM cards but if you are having trouble receiving SMS messages you will need to confirm this by inserting the SIM card into a mobile phone and using the phones menu options to check it. If a number is not programmed then it should be programmed while in the phone (the number can be obtained from the network service provider).

- Voicemail and text alerts must be switched OFF on the SIM card when using the dial in to release the door/gate feature. For Vodafone and O2 this can be done while the SIM card is in the intercom panel. For Orange/EE, T-Mobile and other providers the SIM card must be removed from the intercom panel, inserted into a mobile phone and the mobile phone menu instructions followed.

- When storing the intercom panel's telephone number in your own mobile phone avoid using an obvious name such as 'Front Door, or 'My Gate' as this would make it easy to decipher if your phone was lost or stolen.

- The PIN request feature must be disabled on the SIM card before using it in the Intercom panel. It is likely on a new SIM card that it will not be enabled but if it is, it will prevent the system from working at all.

- This product may not be suitable for installation in hospitals, health care facilities or in the presence of flammable gases or liquids. Seek advice and authorisation before installing this product in these locations. **This product is not designed to be used as an emergency call point.**

Network provider and services configuration codes mentioned in this manual are specific for the UK. Please contact the network provider of your country for the corresponding codes.

IMPORTANT NOTE ABOUT THE SIM

When using a pay monthly SIM card you must ask the service provider to put a spend limit (credit limit) on the account (Vodafone call this service 'spend checker'). This is to safeguard against possible problems which could result in a large phone bill at the end of the month. All providers offer this service. You will need to either ring them or e-mail them to set this up. Automatic top ups should also have a monthly limit. We would suggest a limit of £50.00 which should be more than enough. This service is not provided by Videx.

System Components and Available Versions

DESCRIPTION

The 4000 series vandal resistant (front plate in brushed stainless steel with 2.5mm thickness) digital GSM is designed to work on the same technology as mobile phones. The panel is compatible with the vandal resistant 4000 series modular range and is the size of two 4000 series modules. It enables a call to be made from an entry point (door, gate etc), to any telephone number (mobile or land line). Up to 500 users can be programmed into the door panel, each able to call up to four telephone numbers (if the primary number is busy or not answered, the call can be diverted through to up to three different divert numbers).

Additionally, each user can have a unique access code up to 6 digits, an apartment number up to 6 digits, their numbers added to the 'DTO' dial to open list (to allow them to dial into the panel and release the door/gate), a timeband facility to restrict when an apartment can receive calls (up to 10 timebands are available 9 of which can be programmed). On the scroll panel version a user name option is available with up to 16 characters.

Also, integrated into the panel is a proximity reader enabling up to 2000 user fobs/cards to be stored and used individually or in combination with the access code. In addition the panel includes a 128x64 pixel graphical LCD display with blue back light that provides both text and graphical messages guiding a user through the panel programming and operation. The LCD graphical display can also be used to display a company logo or name which can switch between the panel's standard (or customised) welcome message and the logo.

AVAILABLE VERSIONS

Two optional panels are available the Art.4812 (VR4812) and the Art.4812R (VR4812R) each with an integrated programmable keypad. The Art.4812 has 18 back lit buttons, 6 of which are alpha buttons (A - F), 10 are numeric buttons (0 - 9), plus an "ENTER" ⇐ and a "CLEAR" ⊠ button. The Art.4812R has 15 back lit buttons, 10 are numeric buttons (0 - 9), plus an "ENTER" and "CLEAR" button with a "CALL" ⊠ and two "SEARCH" buttons ⇐ , ⇒ . To compliment the visual messages provided by the display, the panel has a voice annunciation facility to supply audio messages concerning the system operation.

The onboard programming menu and setup menu are protected by two access codes with different login levels:

The master code: this code grants full access to all the programming functions (default '1111'):

1. **Apartment menu** - allows the programming of the apartment details, e.g. apartment name/numbers, telephone numbers etc.

2. **Proximity menu** - allows the programming of proximity fobs/cards.

3. **General settings menu** - allows the general set up of the digital GSM, e.g. the panel's volume controls, proximity reader enabling etc.

4. **Code settings menu** - allows the programming of the master code, admin code and trade code.

5. **Time settings menu** - allows the set up and programming of the digital GSM's time settings, e.g. call time, diver time, relay time and timebands etc.

The admin code: this code is limited to only specific programming functions (default '0000'):

1. **Apartment menu** - allows the programming of the apartment details, e.g. apartment name/numbers, telephone numbers etc.

2. **Proximity menu** - allows the programming of proximity fobs/cards.

Programming of the telephone numbers and the additional features, including programming key fobs for the integrated proximity access, can be carried out either using the alpha-numeric keypad on the front of the panel via graphical menus, text messaging (refer to pages 45 to 59) or by using the GSMSK PC software, refer to the manual **GSMSK-66251720-EN-V1-3** (or later version).

<u>IMPORTANT NOTE:</u> **The standard digital GSM intercom works on a 2G network. A 3G variant is also available (suffix /3G to the part number e.g. Art.4812/3G, Art.VR4812/3G etc.).**

ART. 4812 DIGITAL FRONT PANEL

Fig. 1 - Front View

Art. 4812, Art.VR4812
Art. 4812/3G, Art.VR4812/3G

Art. 4812R, Art.VR4812R
Art. 4812R/3G, Art.VR4812R/3G

Speaker
Proximity Reader
Display
Keypad

SMA antenna connection

Speaker
volume adjustment switches

SIM card holder

micro-USB connection

RS485
bus connection terminals

Connection terminals
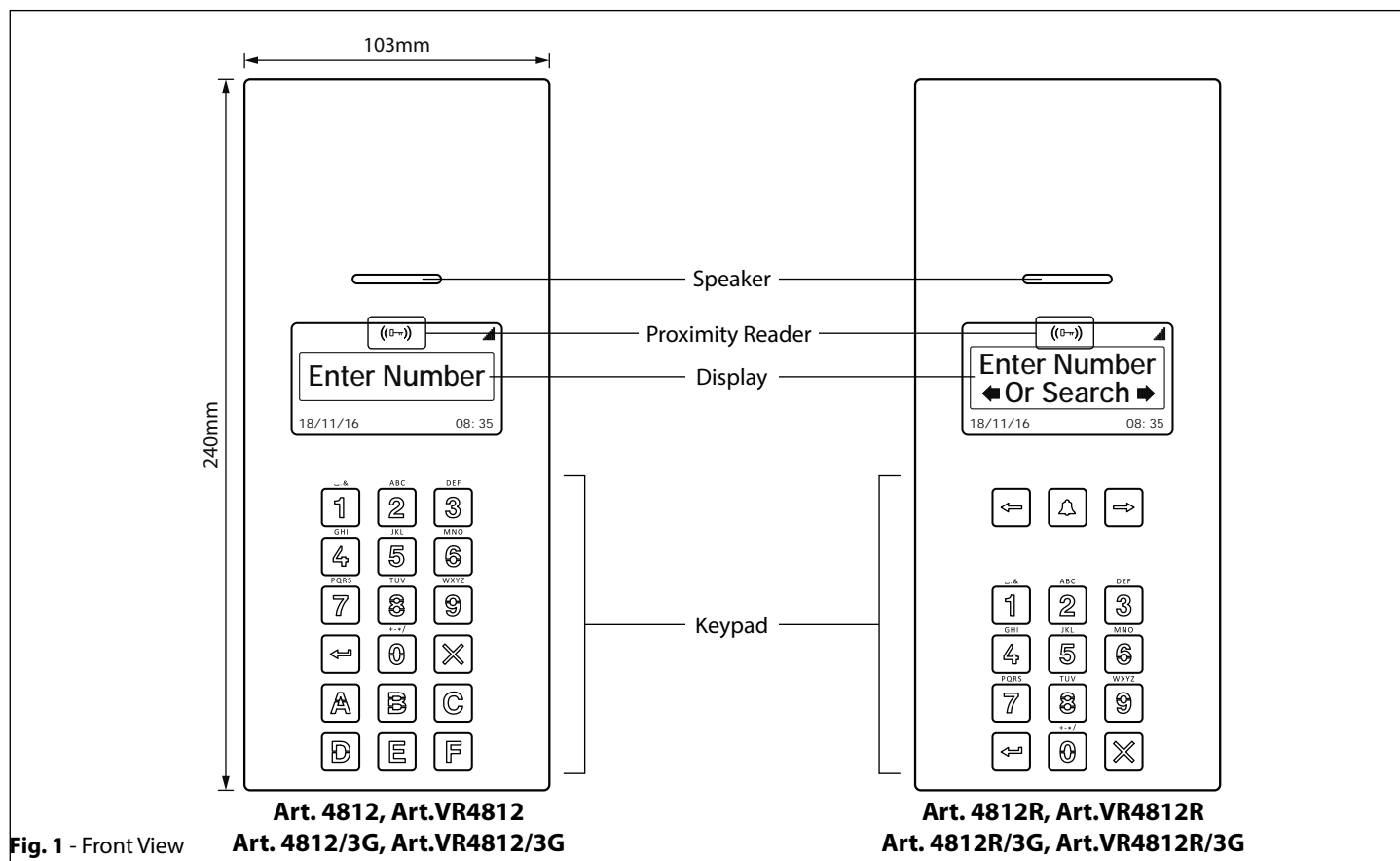
Fig. 2 - Rear View

Technical Information

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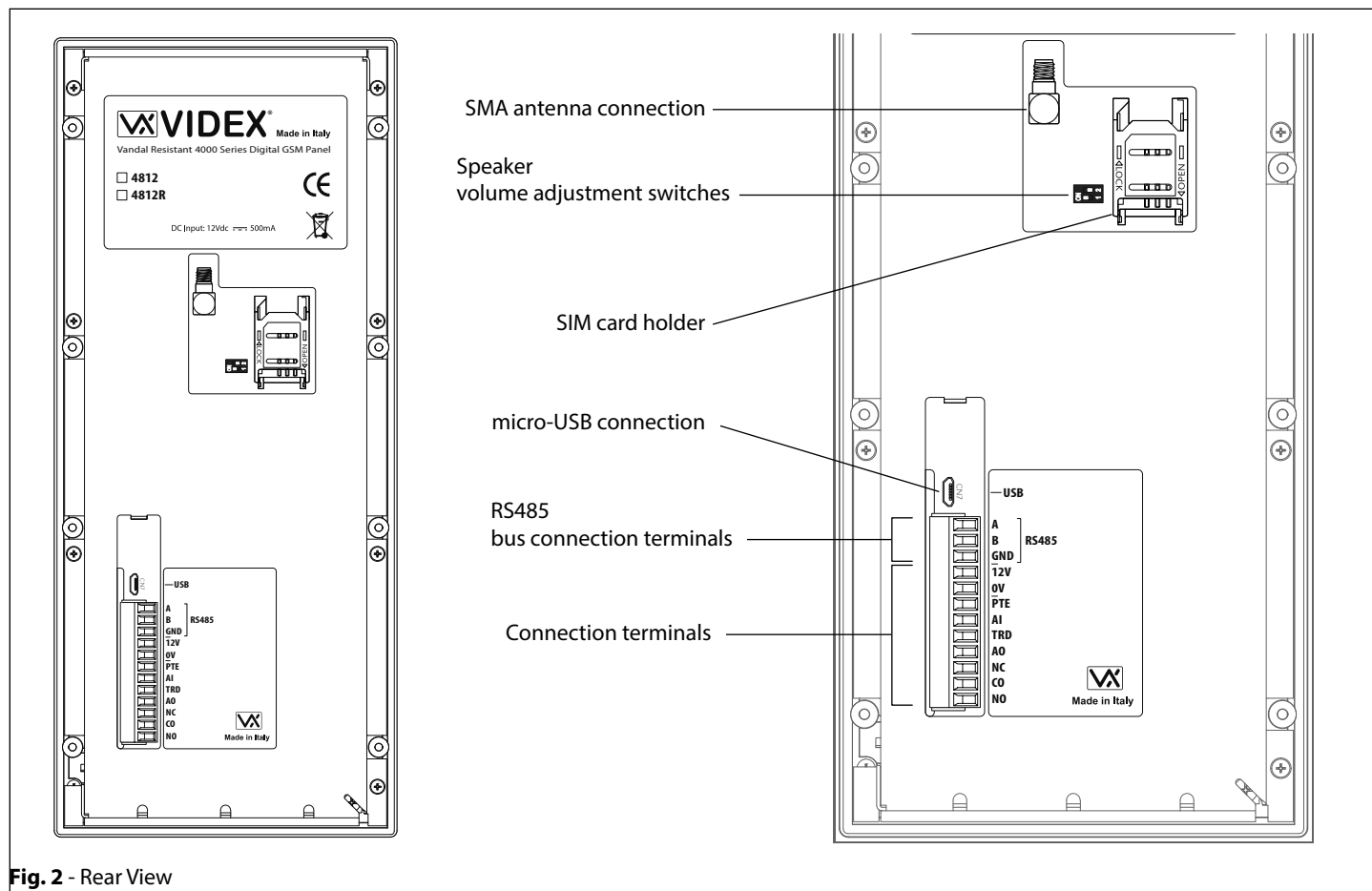
SPEAKER VOLUME ADJUSTMENT (DIP-SWITCH SETTINGS)

There are 2 dip-switches located on the back of the digital GSM module next to the SIM card holder. They can be used to adjust the volume from the door intercom speaker (see table below). Additionally, the volume can also be adjusted during a call electronically via the telephone keypad (refer to user command table 1 on page 62).

Dip-Switch	Dip-Switch Status		Gain (dB)
	Dip No.1	Dip No.2	
	ON	ON	6
	ON	OFF	12
	OFF	ON	18
	OFF	OFF	23.5

TERMINAL CONNECTIONS

Terminal	Description
A	RS485 A connection.
B	RS485 B connection.
GND	RS485 ground connection.
12V	+12Vdc power (500mA max.).
0V	0V ground power.
PTE	Push to exit input (switched 0V).
AI	Auxiliary input.
TRD	Trade input.
AO	Auxiliary output.
NC	Normally closed relay connection.
CO	Common relay connection.
NO	Normally open relay connection.

TECHNICAL SPECIFICATION

Working Voltage	: 12Vdc +/- 10%
Standby Current	: 60mA (max.)
Max. Current	: 500mA (max.)
No. of Users	: up to 500 (max.)
Telephone Numbers (per apartment)	: 4 telephone numbers (1 primary, 3 diverts)
Dial to Open Numbers	: up to 2000 (max.)
Proximity Access (fobs/cards)	: up to 2000 (max.)
Door/Gate Access Codes	: up to 500 (max., 1 per user)
Timebands	: 10 (1 preset, 9 programmable)
Programming	: via alpha-numeric keypad, SMS messaging or PC software
Push to Exit	: 1 (switched 0V input)
Auxiliary Input	: 1 (switched 0V input)
Auxiliary Output	: 1 (open collector output, switched 0V, 150mA max.)
Dry Contact Relay	: 3A @ 24Vdc, 3A @ 120Vac
Event Log	: up to 8000 events
USB port	: micro USB
RS485 connection	: 1 (A, B and GND)
Working Temp.	: -10 +50°C

Additional Components

Apart from the requirement of a SIM card additional parts will be required for the successful installation of the digital GSM. The following components will also be required:

4000 SERIES BACK BOXES AND MOUNTING FRAMES

Both the Art.4812 and Art.4812R are designed to fit the 4000 series range of back boxes and frames, both surface and flush back boxes and mounting frames are available. The digital GSM requires a 2 module back box and frame. Front support frames are available in a gun metal grey finish, chrome finish (suffix \C to the frame code) or gold finish (suffix \G to the frame code). The following surface (see **Fig.3**) and flush (see **Fig.4**) options are available.

Fig. 3

Fig. 4
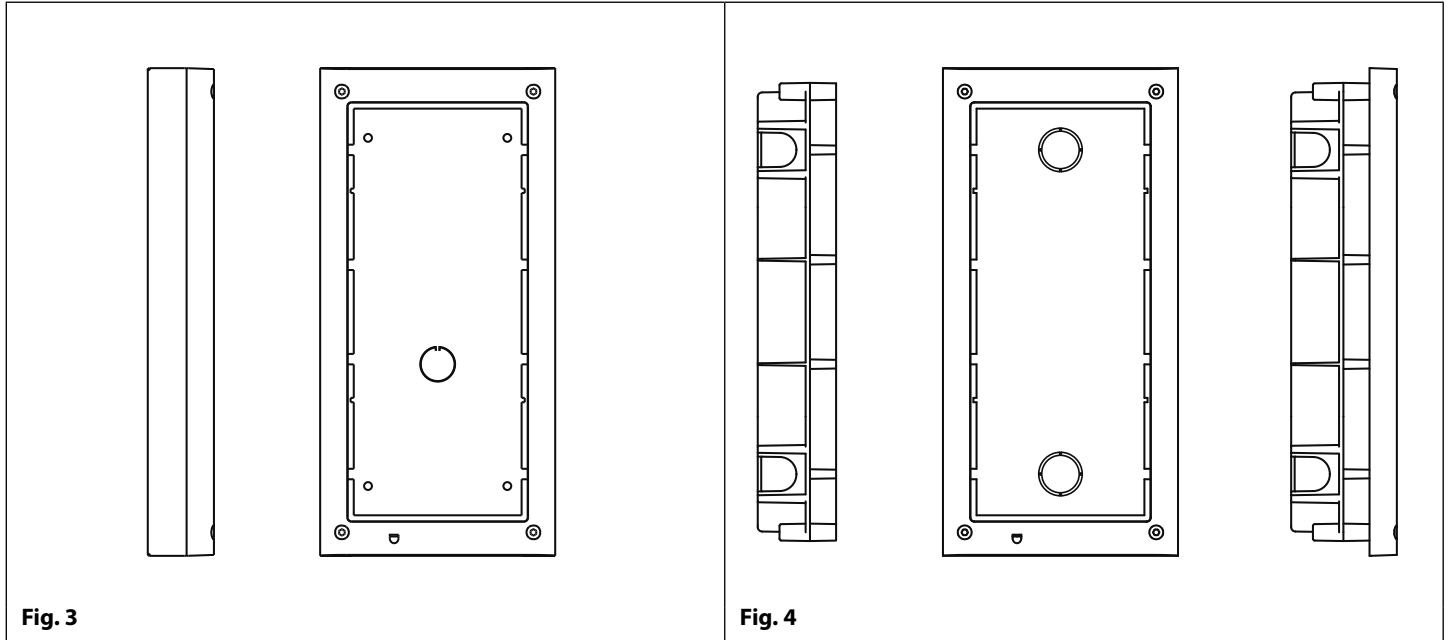
Surface Back Box Dimensions

Part No.	Housed Modules	No. of Columns	Back Box *(W x H x D)* mm
Art.4882	2	1	135 x 280.2 x 43

Flush Back Box Dimensions

Part No.	Housed Modules	Front Frame *(W x H x D)* mm	Back Box *(W x H x D)* mm
Art.4852	2	135 x 280.2 x 15.7	120 x 263.2 x 46

12VDC 1.25A POWER SUPPLY

The digital GSM intercom is designed to work with power supplies in the range of 12Vdc to 14Vdc and should be capable of supplying a constant current of no less than 1A. Typically the digital GSM can use a 12Vdc 1.25A power supply (DR15-12), refer to **Fig.5**.

Fig. 5
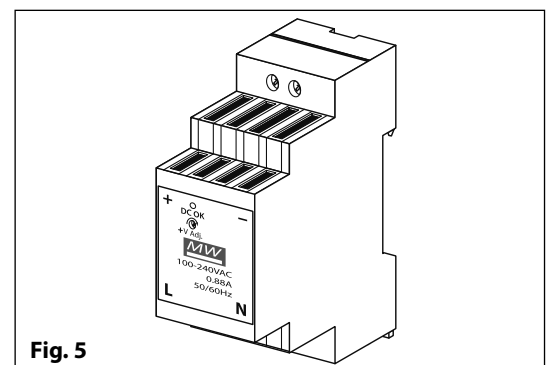
Additional Components

ART. 432 GSM ANTENNA

The digital GSM also requires an antenna to function, the Art.432 GSM antenna connects to the SMA female bulkhead connection on the rear of the digital GSM module. A GSM antenna with an SMA male connector should be used (refer to **Fig.6**).

Antenna Parts

1. GSM antenna with magnetic base.

2. Self-threading screw *(Ø3.5mm x 9.5mm)*.

3. Aluminium L bracket for mounting.

4. SMA male connector *(cable length 2.5m)*.

5. Expansion type wall plugs *(Ø6mm)*.

6. Self-threading screw *(Ø4mm x 30mm)*.

<u>IMPORTANT NOTE:</u> **An antenna must always be fitted for the digital GSM module to work. Always route the GSM antenna cable away from the microphone wires and the power supply wires to avoid interference on the speech channels.**

Antenna

SMA female bulkhead connection on rear of digital GSM module

Fig. 6
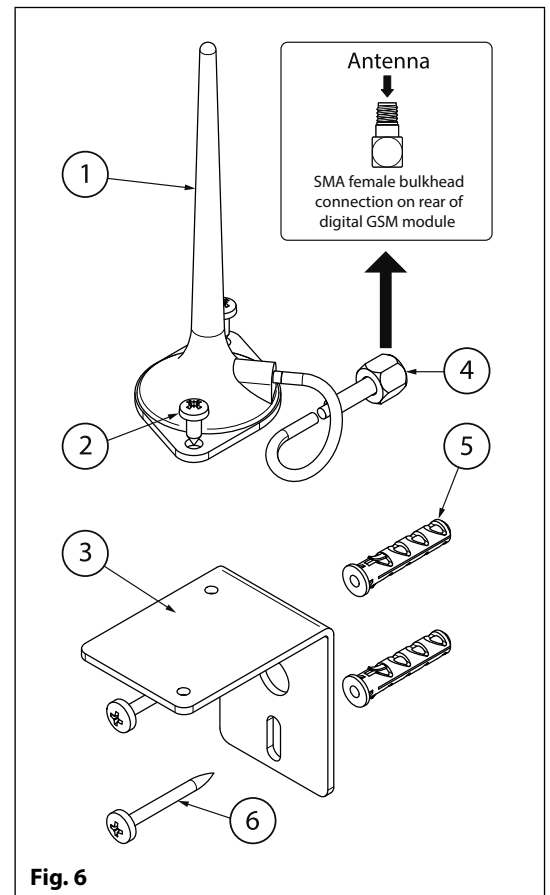
Wiring Diagrams

LOCK RELEASE AND VOLT FREE CONNECTIONS

Fig.7 below shows connections for a fail secure and a fail safe lock release and also volt free contacts.
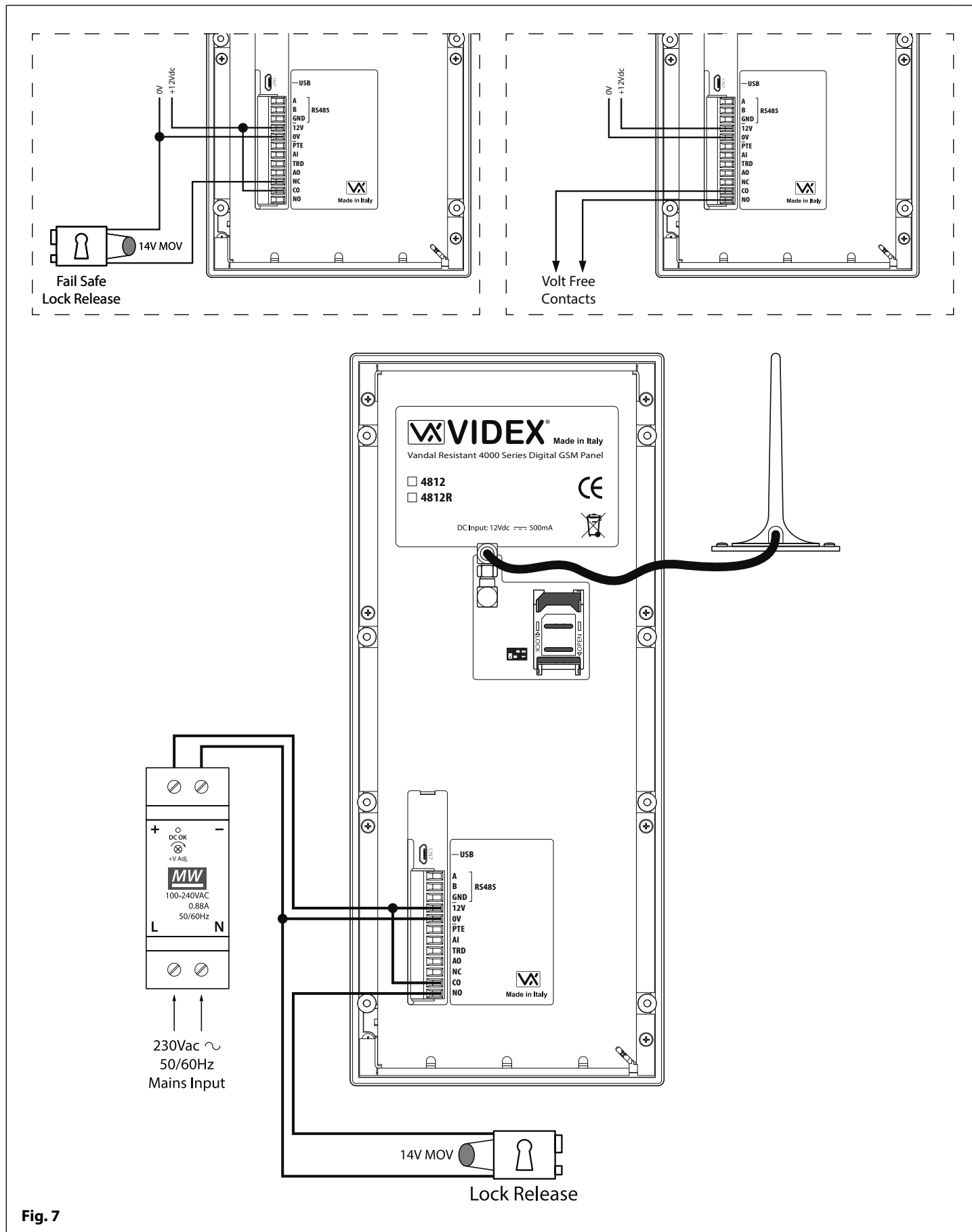
Fig. 7

TRADE INPUT AND PUSH TO EXIT INPUT CONNECTIONS

Fig.8 below shows connections for the trade input using an Art.701T timeclock (in timeclock mode) and **Fig.9** shows connections for the push to exit input using a push-to-make (normally open going closed) switch/button.
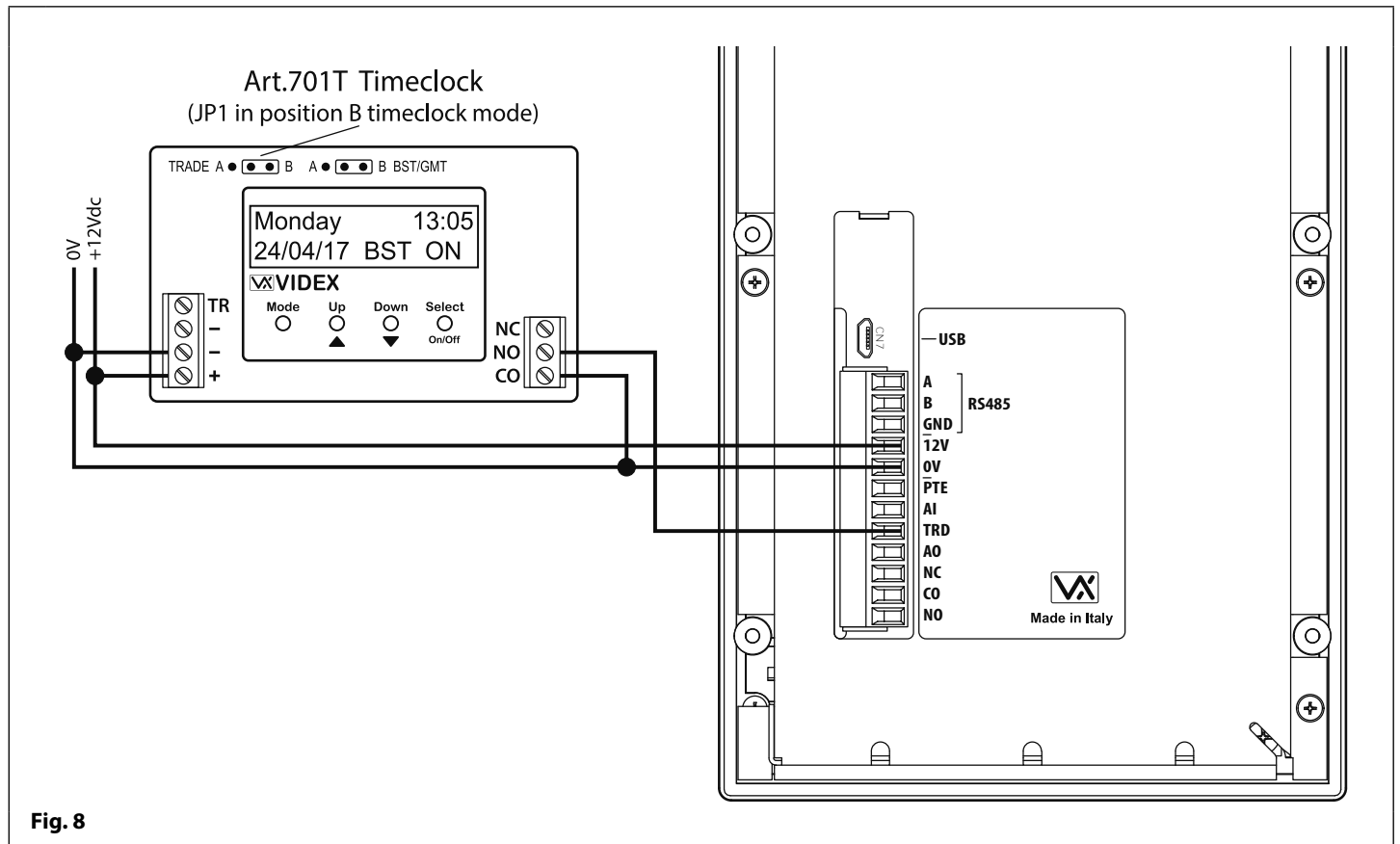
Fig. 8
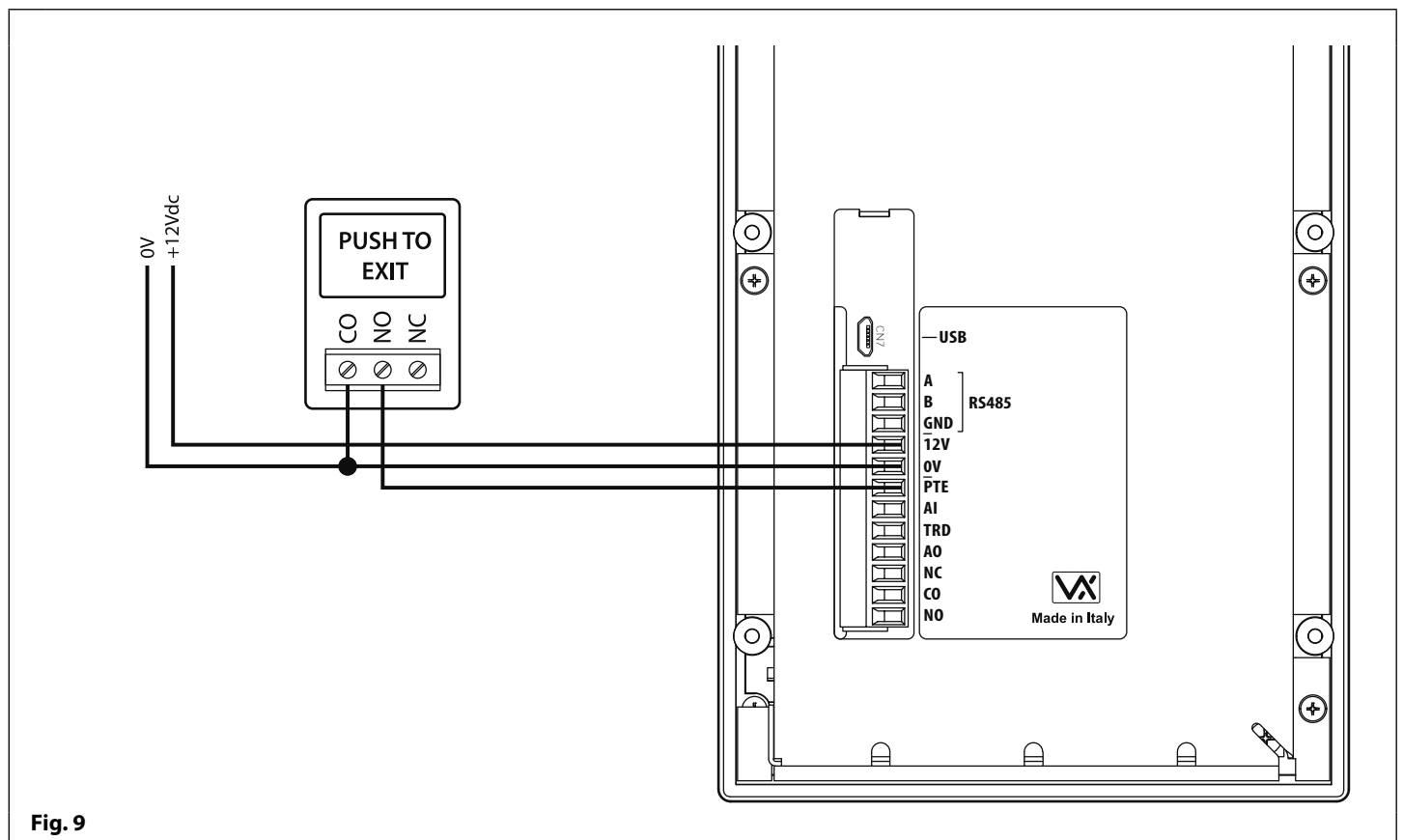
Fig. 9

Auxiliary Input & Output

AUXILIARY OUTPUT (AO) WHEN SET TO MODE 000 (ON DURING A CALL)

Fig.10 below shows the connection for auxiliary output **AO** when the **AOM** mode is set to **000**. The auxiliary output **AO** will activate once a call to an apartment has been made and will stay activated for the duration of the call.

When the auxiliary output mode **(AOM)** is set to mode **000**. The auxiliary output **AO** will activate from when a call is made to an apartment and stay activated for the duration of the call.

When the call is finished the auxiliary output AO will deactivate.

Fig. 10
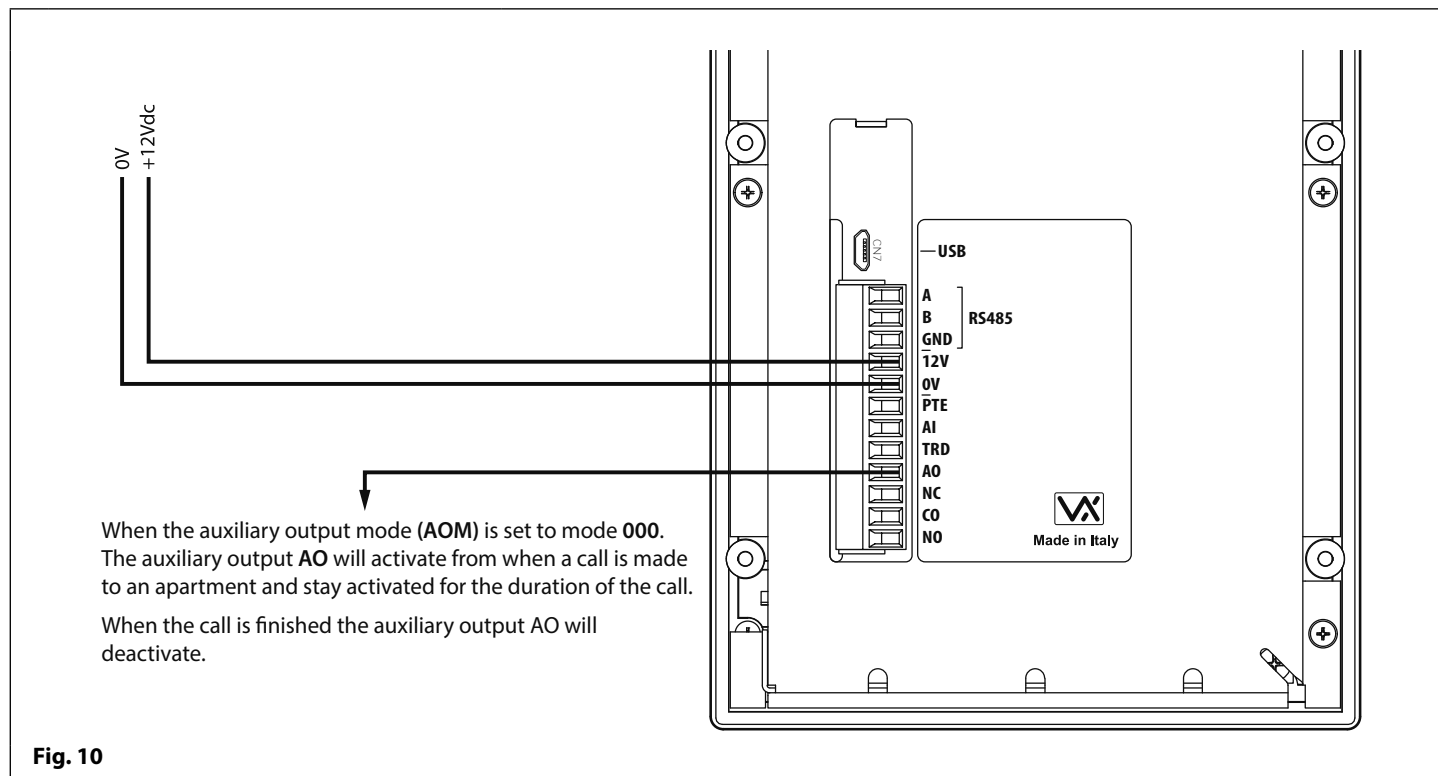
AUXILIARY INPUT (AI) AND AUXILIARY OUTPUT (AO) WHEN SET TO MODE 001 (ON WHEN TRIGGERED)

Fig.11 below shows the connection for auxiliary output **AO** when the **AOM** mode is set to **001**. The auxiliary output **AO** can be activated remotely by the user sending the text message **1111 A1O** to the digital GSM intercom or by pressing **6** on the telephone during a call and will stay activated for the programmed auxiliary output time **A1T**. The auxiliary output can also be triggered by a normally open switch (switched 0V) connected into the auxiliary input **AI**.

The auxiliary output **AO** will activate for the programmed auxiliary output time **(A1T)** when the auxiliary input **AI** is triggered from a normally open switch (switched 0V) and the auxiliary output mode **(AOM)** is set to mode **001**.

The auxiliary output **AO** can also be triggered by: sending the text message **1111A1O** to the digital GSM or by pressing **6** on the telephone during a call; an access code stored in memory location **'000'**; a proximity fob/card stored in (prox) memory location **'0000'**.

Fig. 11

AUXILIARY OUTPUT (AO) WHEN SET TO MODE 002 (CALL ACTIVATED)

Fig.12 below shows the connection for auxiliary output **AO** when the **AOM** mode is set to **002**. The auxiliary output **AO** will activate once a call to an apartment has been made and will stay activated for the programmed auxiliary output time **A1T**.

When the auxiliary output mode (**AOM**) is set to mode **002**. The auxiliary output **AO** will activate from when a call is made to an apartment and stay activated for the auxiliary output time (**A1T**).
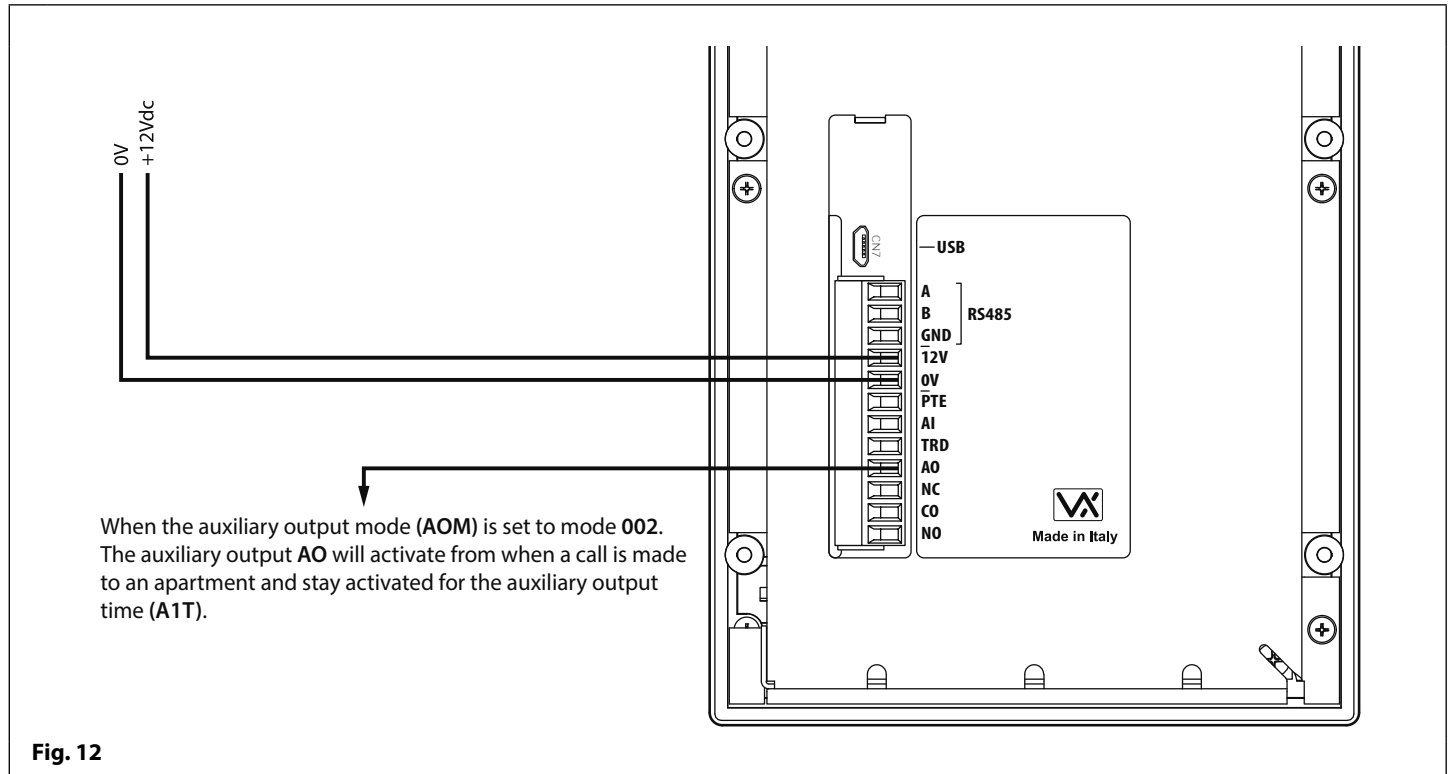
Fig. 12

CONNECTING A SECONDARY DEVICE TO THE AUXILIARY OUTPUT (AO)

Since the auxiliary output **AO** is a transistor switched output (switched low output) it can be connected to a relay (e.g. an Art.506N). This is particularly useful if a secondary device requires triggering. **Fig.13** shows how to connect an Art.506N relay.
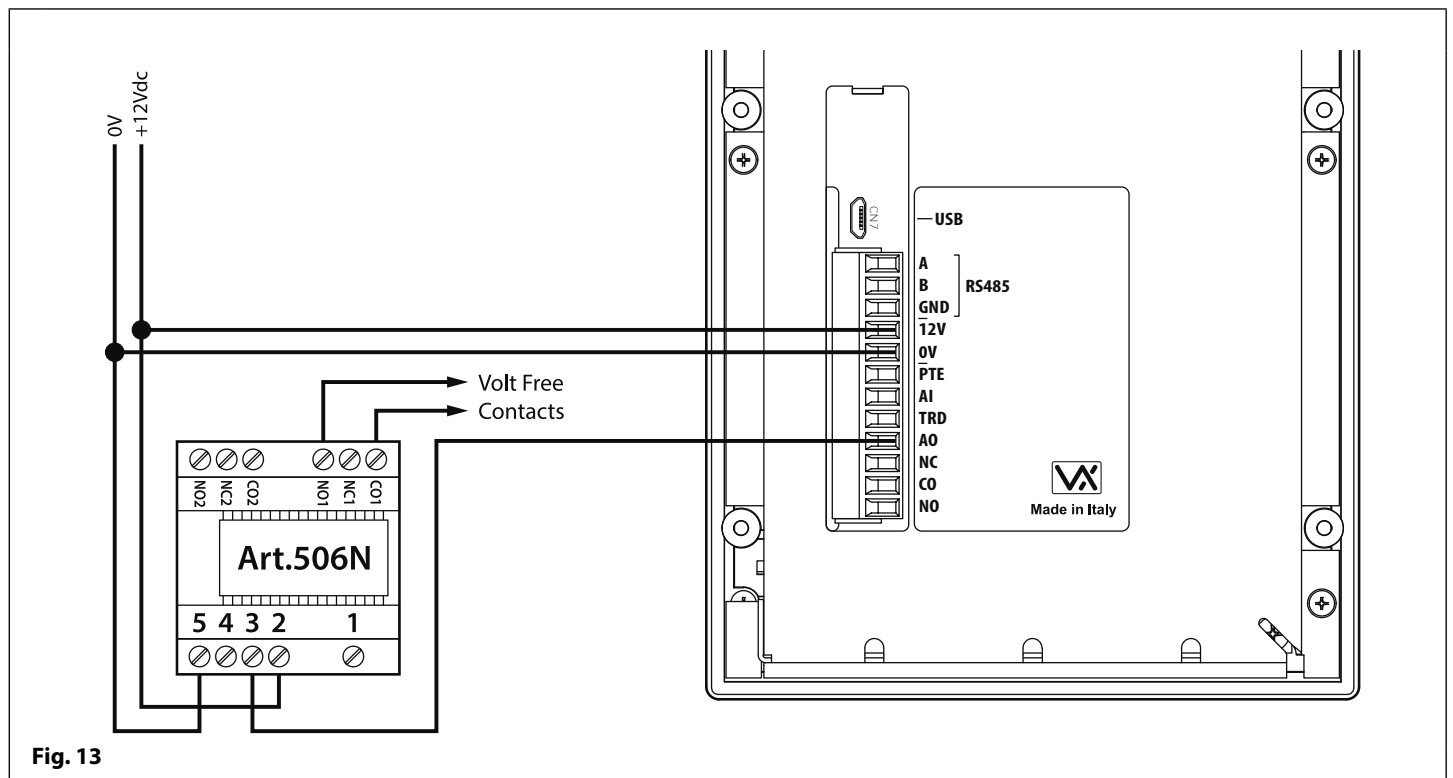
Fig. 13

USB & RS485 Connection

CONNECTIONS TO A PC

The digital GSM intercom also includes two options for connecting to a PC: via a USB connection or via an RS485 connection. Both methods of connection are to allow for ease of programming and monitoring using the GSMSK PC software. All programming features described in this manual are also accessible using the software. Further information on using the GSMSK PC software can be found in the technical manual **GSMSK-66251720-EN-V1-3** (or later version).

OPTION 1: USB CONNECTION

The digital GSM can be connected using a standard micro-USB to USB cable as shown in **Fig.14**. This method of connection is primarily used for programming and setup of the digital GSM panel.

IMPORTANT NOTE:
The USB is <u>not</u> intended for permanent connection and should only be used for programming. See notes on RS485 for permanent connection to a PC on page 16.
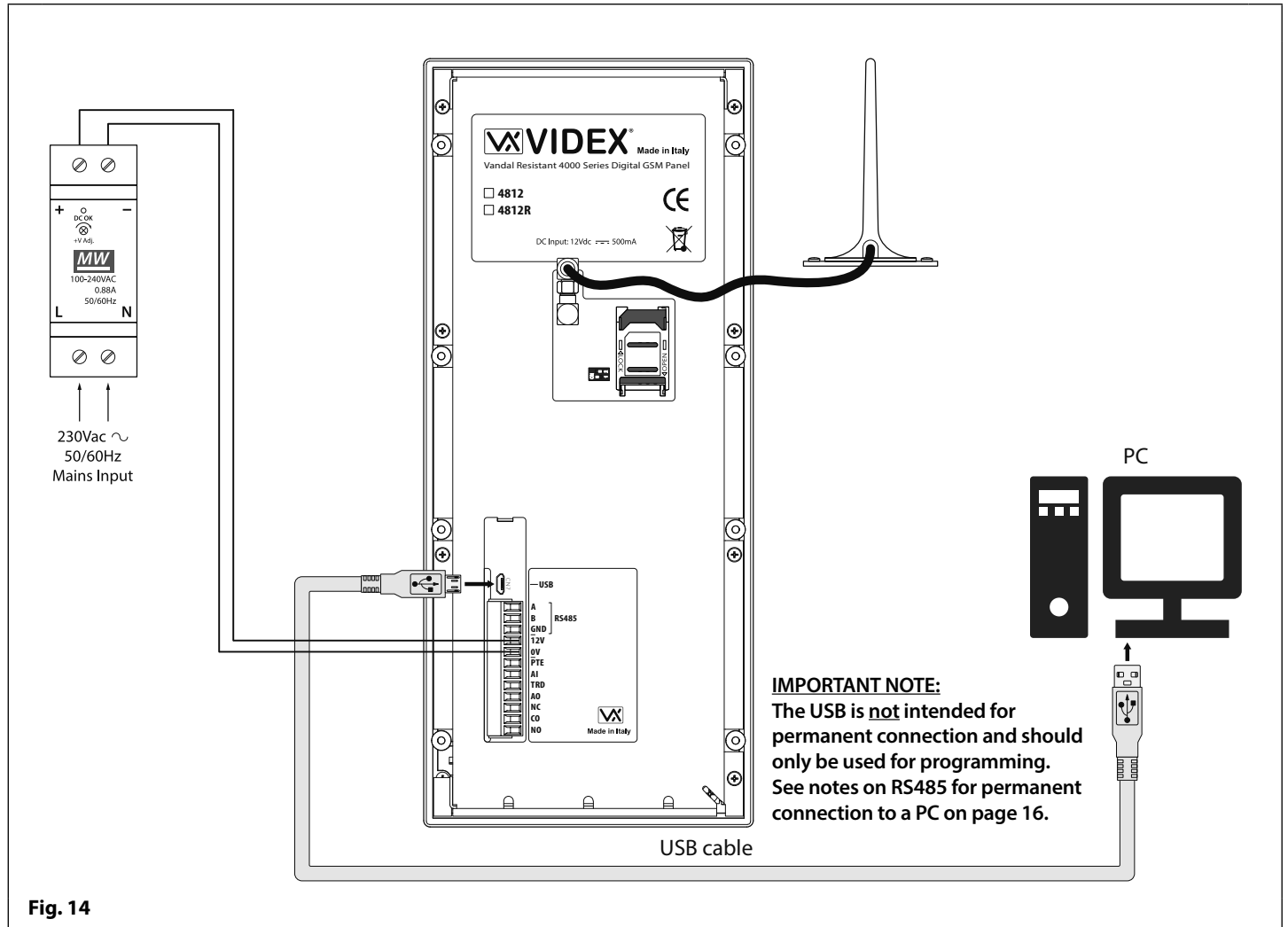
Fig. 14

OPTION 2: RS485 CONNECTION

The digital GSM intercom can also be connected using an RS485 bus connection via an RS485 to USB converter (Art.481) as shown in **Fig.15**. This method of connection, like option 1, can be used for programming and setup of the digital GSM, but can also be used in instances where a permanent connection to a PC is required for monitoring purposes and downloading event logs. When connected in this way the digital GSM can only be connected as a 'one-to-one' bus connection to the PC, another GSM module **cannot** be connected on the same RS485 bus to the PC.
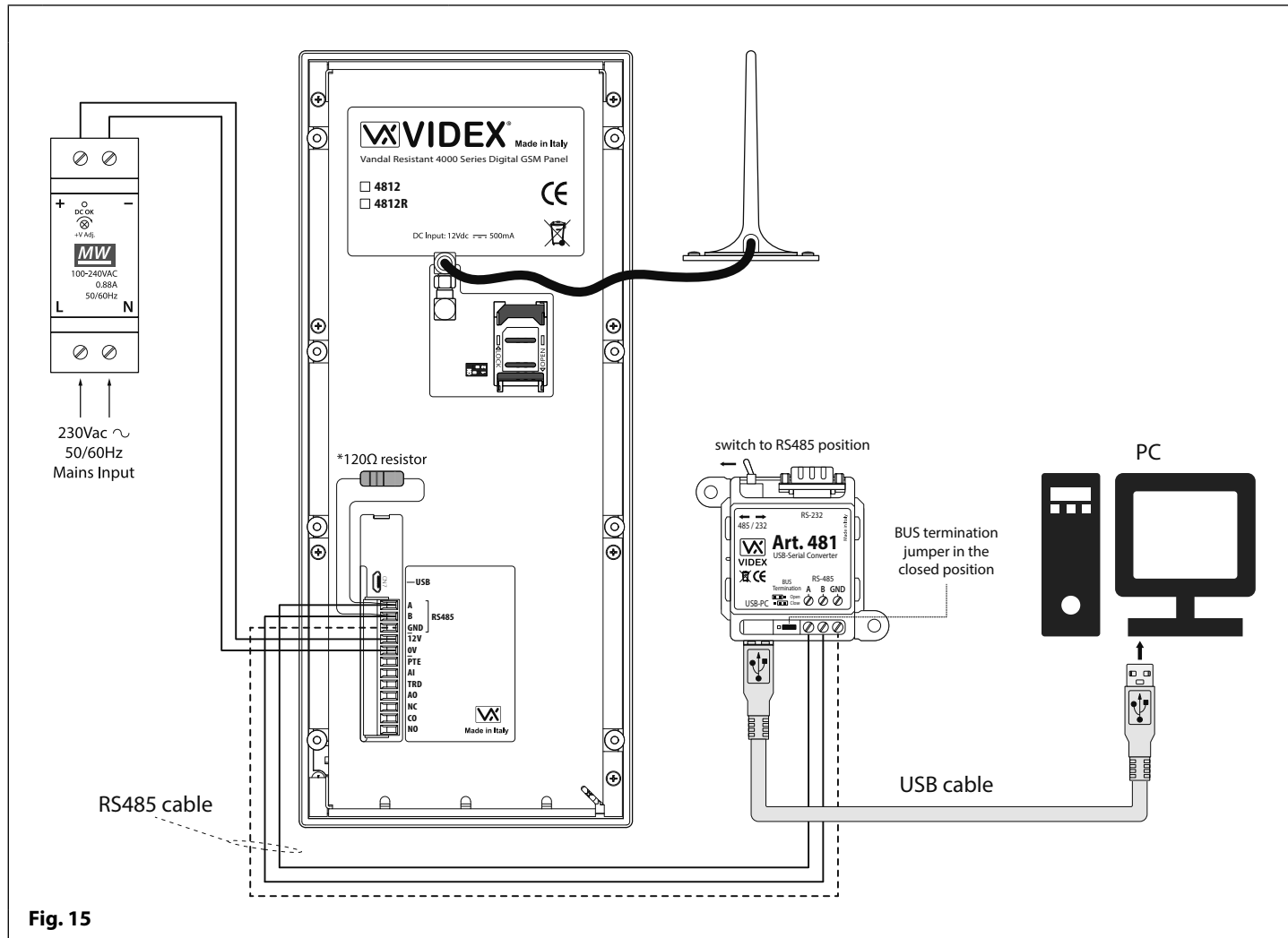
Fig. 15

*For end of line termination a 120 Ohm resistor must be fitted across the RS485 terminals A and B, as shown in **Fig.15**.

General Directions for Installation

CABLE SIZE GUIDE

Refer to the table below for the connections for the power supply output to the Art.4812/Art.4812R digital GSM intercom and the lock release connections.

Distance	20m	50m	100m
Cross Sectional Area (CSA)	0.5mm^2	1.0mm^2	1.5mm^2

Ideally the power supply should be located as close to the intercom panel as possible for best performance. The maximum acceptable resistance for the above cables = 3Ω or less for best possible performance.

IMPORTANT NOTE: **Only bare copper (BC) cable should be used (solid or stranded is acceptable). Please be aware that when selecting a cable the following should NOT be used: Copper Coated Steel (CCS) and Copper Clad Aluminium (CCA). While these types of cable may offer a low cost solution they will have a higher resistance than pure copper cable and can affect the overall performance of the system therefore Videx DO NOT recommend these types of cable.**

GENERAL INSTALLATION NOTES

- Check that all components are free from damage before installing (do not proceed with installation in the event of damage).
- Keep all packaging away from children.
- Do not obstruct the ventilation openings or slots on any of the devices.
- All connections to mains voltages must be made to the current national standards (I.E.E. wiring regulations or the appropriate standards of your country).
- Install an appropriate fused spur or isolation switch to isolate the mains.
- Isolate the mains before carrying out any maintenance work on the system.
- Avoid water ingress into the rear of the module, always seal the module frame after installation using a suitable silicon based sealant.
- All intercom and access control cables must be routed separately from the mains.

LOCK RELEASE WIRING AND BACK EMF PROTECTION

When fitting an electric lock release back EMF protection will be required. If fitting an AC lock release then a 100nF ceramic disc capacitor must be fitted across the terminals of the lock, shown in **Fig.16**. If fitting a DC lock release (fail secure or fail safe) then a 1N4002 diode must be fitted across the terminals on the lock, shown in **Fig.17**.

100nF CAP

a MOV can be fitted to either an AC or DC lock across the lock terminals and is not polarity conscious

Fig. 16

1N4002 DIODE

always connects to the +positive of the lock

always connects to the -negative of the lock

Fig. 17
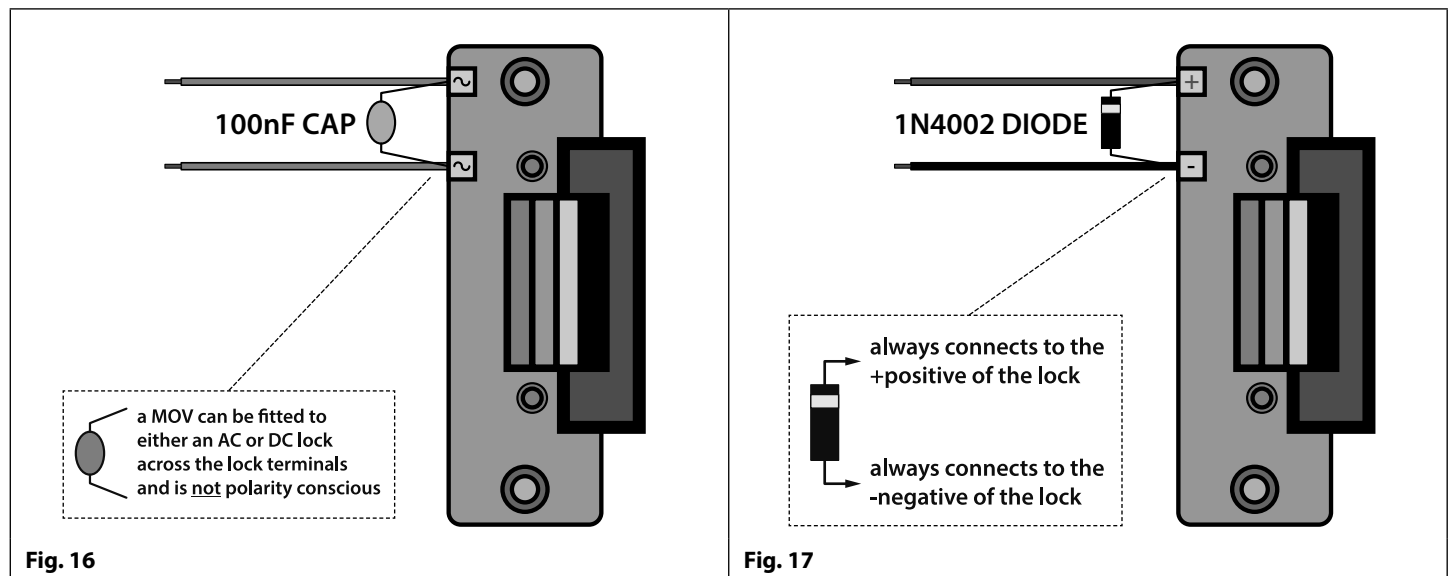
If a 100nF ceramic disc capacitor or a 1N4002 diode are not available then a 14 - 20V MOV (metal oxide varistor) can be fitted across the lock terminals instead (refer to **Fig.16** above) and can be fitted on both an AC and DC lock. Connection examples can also be seen on the wiring diagrams on page 11.

CONNECTION TO MAINS, SAFETY AND GUIDANCE NOTES

> ⚠ **IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE COMMENCING WITH THE INSTALLATION.**

Videx recommends that any cabling and Videx product be installed by a competent and qualified electrician, security installation specilalist or communications engineer.

- **DO NOT** install any Videx product in areas where the following may be present or occur:

- Excessive oil or a grease laden atmosphere.

- Corrosive or flammable gases, liquids or vapours.

- Possible obstructions which would prevent or hinder the access and/or removal of the Videx product.

MAINS CONNECTION

The system **MUST** be installed in accordance with the current I.E.E regulations (in particular **I.E.E. Wiring regulations BS7671**), or the appropriate standards of your country, in particular Videx recommends:

- Connecting the system to the mains through an all-pole circuit breaker (refer to **Fig.18**) which shall have contact separation of at least 3mm in each pole and shall disconnect all poles simultaneously.

- That the all-pole circuit breaker shall be placed in such a way to allow for easy access and the switch shall remain readily operable.

- Ensuring that the mains supply (Voltage, Frequency and Phase) complies with the product rating label.

- Isolating the mains before carrying out any maintenance work on the system.

Mains

1 PHASE SUPPLY
(220 - 240Vac, 50/60Hz)

N

L

FUSE

SWITCHED FUSE SPUR
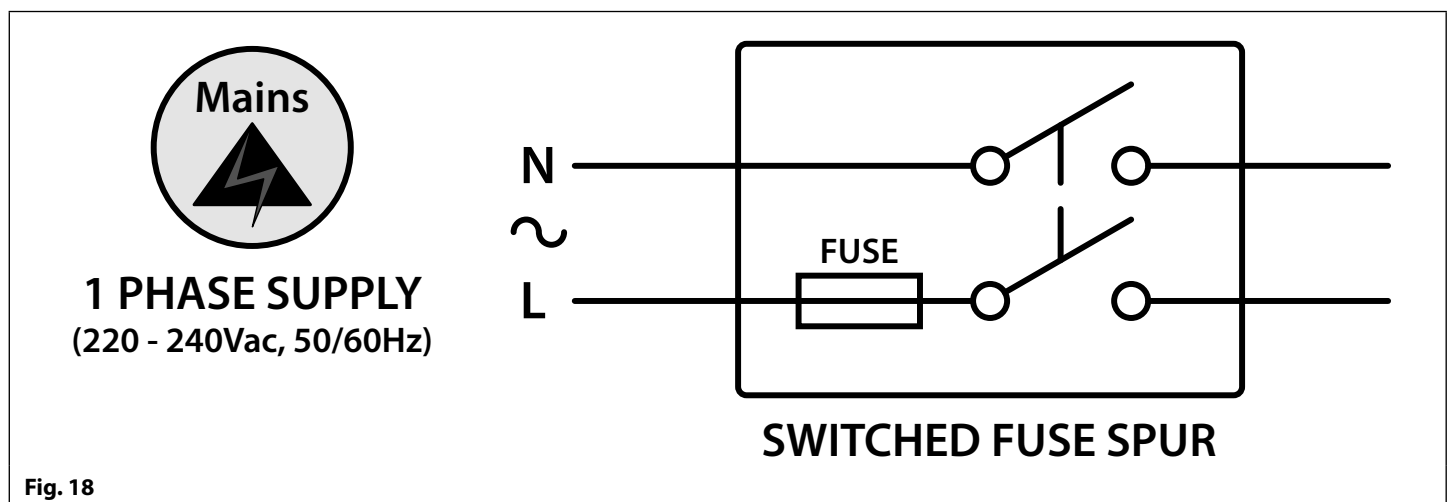
Fig. 18

POWER SUPPLY INSTALLATION

Follow the steps below when fitting the 12Vdc 1.25A (DR15-12) power supply.

- First remove the terminal side covers by unscrewing the retaining screws (if applicable).

- Fix the power supply to a DIN rail (following **Fig.19**, **Fig.20** and **Fig.21**).

- Switch OFF the mains using the circuit breaker (mentioned previously) and then make the connections as shown on the installation diagrams.

- Check the connections and secure the wires into the terminals ensuring that the low voltage (signal) cables are routed separately from the high voltage (mains) cables.

- Replace the terminal covers and fix them back into place using the relevant screws (if applicable).

- When all connections are made restore the mains supply.
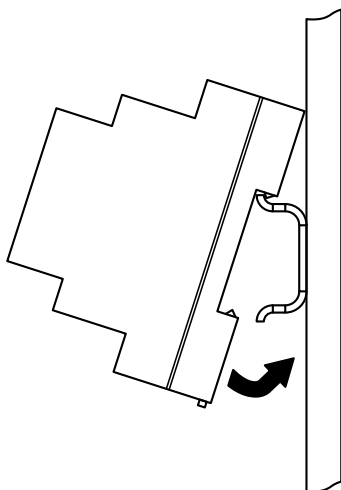
Fig. 19
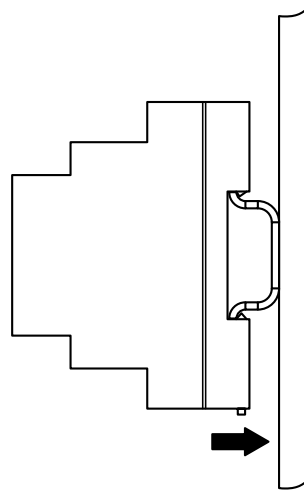
Fig. 20
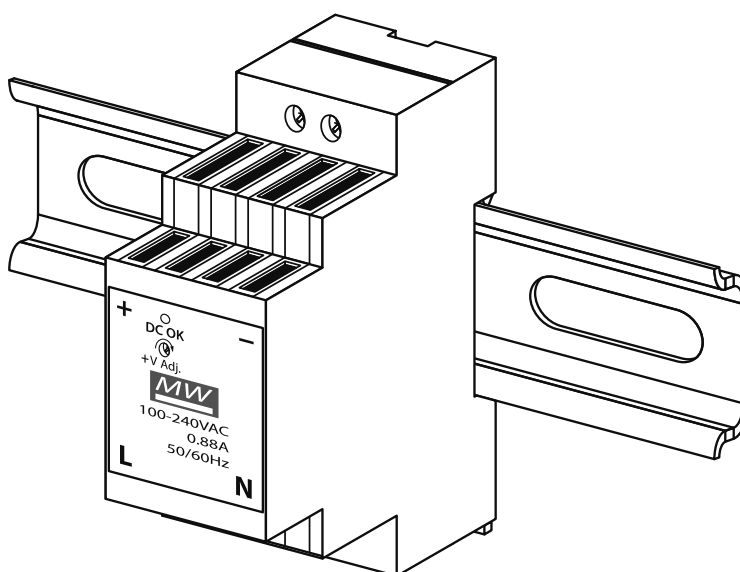
Fig. 21

PANEL CARE

The digital GSM panel facia is brushed stainless steel. It is important that the facia is cleaned on regular occasions to prevent dirt build up and tarnishing of the metal. A general household metal polish can be used but care should be taken to follow the grain of the metal when polishing and also avoid any polish build up around the panel buttons which may prevent the buttons from operating correctly.

FITTING A SIM CARD

After connecting the power supply, antenna, lock output and any auxiliary devices as shown in this manual and before powering up, a SIM card must be installed (the SIM must already be registered with the network provider). The SIM holder can be found on the back of the module next to the SMA antenna connection. A SIM card from most network providers can be used with the exception of the 3 network. Follow the steps below to insert the SIM card:

1. First slide the SIM holder on the back of the digital GSM module down until it 'clicks', as shown in **Fig.22**.
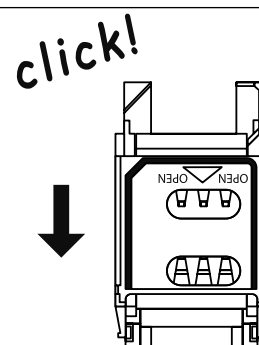
Fig. 22

2. The SIM holder is hinged and will open out, see **Fig.23**.

Fig. 23
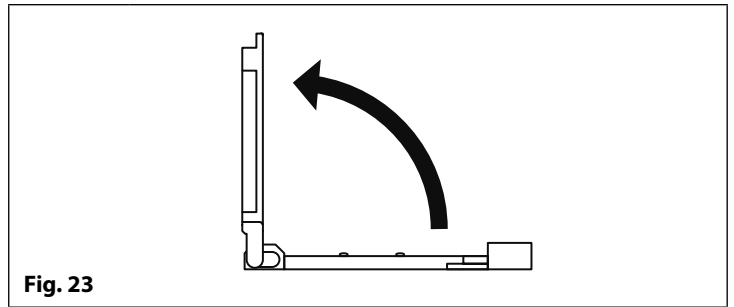
3. Place the SIM card into the holder (it will only fit one way, see **Fig.24**) and fold the holder back down, see **Fig.25.**

Fig. 24

Fig. 25
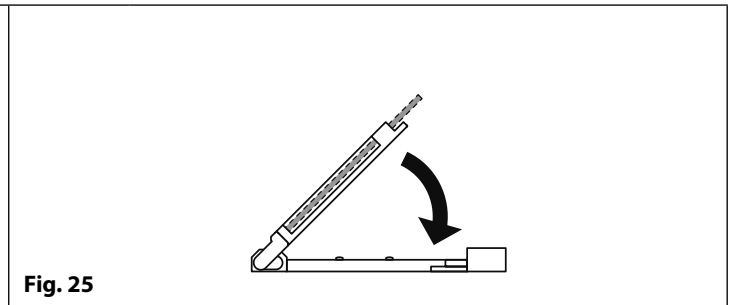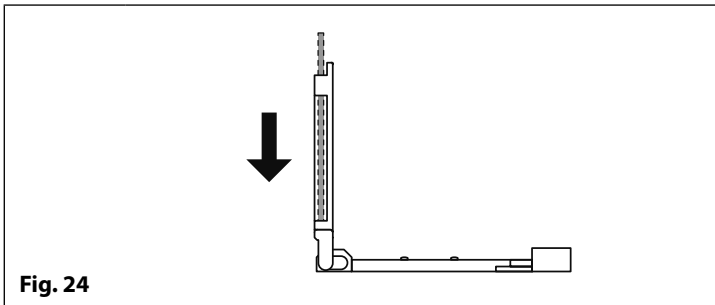
4. Slide the SIM holder back up until it 'clicks', see **Fig.26**.

Fig. 26
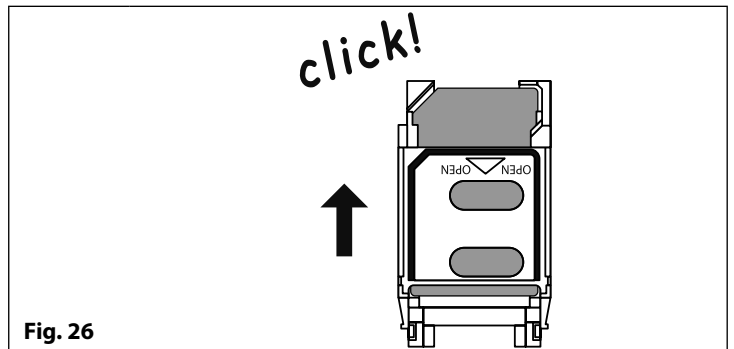
5. Once the SIM is in place follow the initialisation process.

POWER UP INITIALISATION SEQUENCE

The digital GSM intercom requires approximately 25 - 30 seconds too initialise properly. We recommend NOT sending any SMS messages or pressing buttons during this time.

1. First check all the connections have been made correctly and then power up the system.

2. The graphical display and the keypad buttons will illuminate.

3. After approximately 5 seconds the display will show the Videx GSM logo and current firmware version number, as shown in **Fig.27**.

4. After a further 10 seconds the GSM will emit a beep and below the Videx logo it will indicate the digital GSM is registering with the network, as shown in **Fig.28**.

5. After a further delay the display will then show the default welcome screen (refer to **Fig.102** for the Art.4812 and **Fig.103** for the Art.4812R on page 61).

Fig. 27

Fig. 28
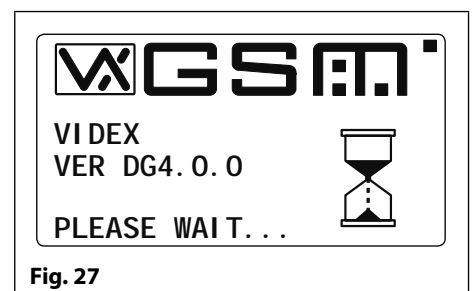
Reset Procedure

RESETTING THE DIGITAL GSM INTERCOM TO FACTORY DEFAULTS

There are two reset procedures for the digital GSM panel. The first will reset the master code only and the second will reset everything and clear all stored telephone numbers, proximity cards and settings.

RESETTING THE MASTER CODE TO 1111 (4x1)

1. Ensure the power is switched off to the digital GSM panel.

2. Press and hold down the '0' button, [0], and keep it pressed down while the power is switched back on.

3. The graphical display and the keypad buttons will illuminate.

4. After a brief delay the display will show the Videx GSM logo and current firmware version number, as shown in **Fig.29**.

5. After another delay the GSM will emit a beep and below the Videx logo it will indicate the digital GSM is registering with the network, as shown in **Fig.30**.

6. When the display shows that it is registering release the '0' button, [0].

7. After a further delay the display will then show the default welcome screen (refer to **Fig.102** for the Art.4812 and **Fig.103** for the Art.4812R on page 61).

8. The master code has been reset back to factory default **1111** (4x1).
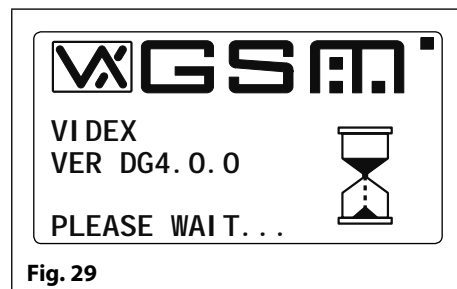
Fig. 29

Fig. 30

FULL SYSTEM RESET

1. Ensure the power is switched off to the digital GSM panel.

2. On the rear of the GSM panel link out the GND and PTE terminals, as shown in **Fig.31**.

3. Press and hold down the 'ENTER' button, [↵], and keep it pressed down while the power is switched back on.

4. The graphical display and the keypad buttons will illuminate.

5. After a brief delay the display will show the Videx GSM logo and current firmware version number, as shown in **Fig.32**.

6. After another delay the GSM will emit a beep and below the Videx logo it will indicate the digital GSM is resetting, as shown in **Fig.33**.

7. When the display shows that it is resetting release the 'ENTER' button, [↵].

8. After a further delay the digital GSM will automatically follow the 'power up initialisation sequence' as described on page 20.

9. The digital GSM panel has been fully reset.
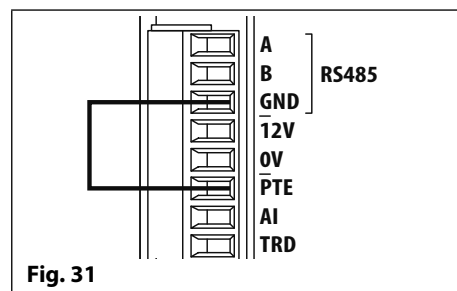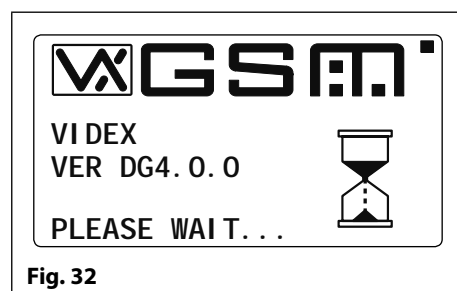
<u>IMPORTANT NOTE:</u> **When performing a full system reset all the data stored in the digital GSM will be deleted from the panel. If any data is still required it is recommended that this information is first downloaded from the digital GSM using the GSMSK PC software and then saved. It can then later be uploaded back into the digital GSM after the full reset has been completed.**

Fig. 31

Fig. 32

Fig. 33

4000 Series Back Box Installation

EXAMPLE: INSTALLING A 4000 SERIES TWO MODULE SURFACE BACK BOX (ART. 4882)

Fig. 34

Fig. 35

Fig. 36

Fig. 37

Fig. 38

Fig. 39

Fig. 40

Fig. 41

Fig. 42

Fig. 43

Fig. 44

Fig. 45

INSTALLING A SURFACE MOUNT DOOR STATION

1. Place the surface box against the wall (165-170cm between the top of the box and the floor level as shown in **Fig.34**) and mark the fixing holes Ⓐ for the wall plugs Ⓑ and the hole for the cables Ⓔ **(Fig.35).** Observe the orientation of the box with the hinge mount Ⓜ on the left;

> ⚠ **In order to prevent water ingress we highly recommend using a silicon sealant between the wall and the back box Ⓒ, ON THE LEFT, TOP AND RIGHT SIDES ONLY AND AROUND ALL THE HOLES Ⓓ . DON'T USE SILICON SEALANT ON THE BOTTOM SIDE OF THE BACK BOX (Fig.36);**

2. As shown in **Fig.35,** drill the fixing holes Ⓐ , insert the wall plugs Ⓑ and feed the cables Ⓔ through the surface box opening Ⓓ, fix the surface box Ⓒ to the wall using the screws Ⓕ;

3. Remove the cross bar Ⓖ from the module support frame Ⓗ using the approprite hand tool (where required it may be necessary to wear the appropriate clothing, e.g. protective gloves and eye protection, when doing this) as shown in **Fig.37;**

4. Before installation of the module support frame Ⓗ to the surface box Ⓒ, fit the module Ⓘ to the support frame Ⓗ as shown in **Fig. 38** then, as shown in **Fig.39,** fit the module fixing brackets Ⓙ using the fixing screws Ⓚ;

5. Next take the frame's hinges Ⓛ and hook the module support frame Ⓗ to the surface box Ⓒ, starting from the left following the guide arrows, as shown in **Fig.40.** Ensure that the frame's hinges Ⓛ **(Fig.40)** fit inside the relevant hinge mounts Ⓜ inside the surface box Ⓒ, following the guide arrows, as shown in **Fig.41**;

6. Pull back the module support frame Ⓗ from the surface box Ⓒ while moving it slightly to the left, following the guide arrows, as shown in **Fig.42**;

7. Next open the module support frame Ⓗ and clip the hinge locks Ⓝ to the hinge mounts Ⓜ, following the guide arrows, as shown in **Fig.43**;

8. Make the required wiring connections into the terminal block Ⓞ using the screwdriver provided Ⓟ (using the flat blade end) then plug the terminal block Ⓞ into the module's terminal block connector Ⓠ, as shown in **Fig.44**. Make any other necessary panel adjustments required (connecting the antenna cable, fitting the SIM card and setting the dip-switches etc.);

9. After the system has been tested and is working correctly, move back the module support frame Ⓗ carefully and then fix it to the surface box Ⓒ using the screwdriver provided Ⓟ (using the torx end) and the torx pin security screws provided Ⓡ, as shown in **Fig.45**. Note: do not over tighten the screws more than is necessary.

> ⚠ **Note: if additional holes are made in the surface box, oxidation problems may appear unless the unprotected metal is coated with a protective paint.**

EXAMPLE: INSTALLING A 4000 SERIES TWO MODULE FLUSH BACK BOX (ART. 4852)

Fig. 46

Fig. 47

Fig. 48

Fig. 49

Fig. 50

Fig. 51

Fig. 52

Fig. 53

Fig. 54

Fig. 55

Fig. 56
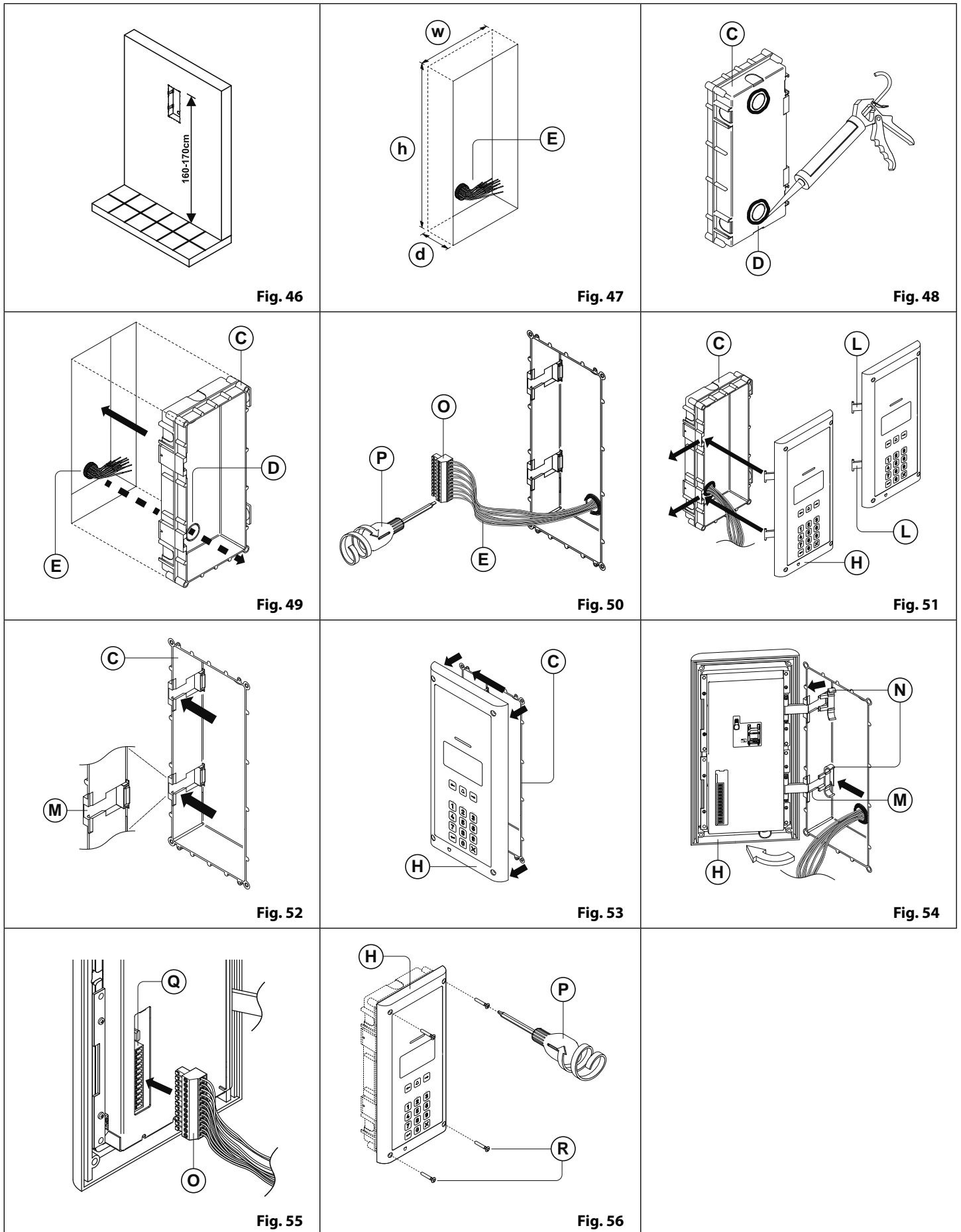
INSTALLING A FLUSH MOUNTING DOOR STATION

1. It is recommended that the flush box Ⓒ is mounted into the wall approximately 165-170cm between the top of the box and the floor level as shown in **Fig.46**.

2. Using the flush box Ⓒ and the hole dimensions **(w=120mm x h=263.2mm x d=46mm)**, as shown in **Fig.47**, use appropriate tools to cut out the recommended hole size in the wall (where required it may be necessary to wear the appropriate clothing, e.g. protective gloves and eye protection, when doing this). Remember to allow room for the connecting cables Ⓔ (**Fig.47**);

> ⚠ Before fitting the flush box Ⓒ into the wall it is recommended that in order to prevent water ingress a silicon sealant is used between the wall and the flush box Ⓒ (Fig.48) and around the flush box openings Ⓓ (Fig.48);

3. Set the flush box Ⓒ into the hole in the wall feeding the connecting cables Ⓔ through the appropriate flush box opening Ⓓ, as shown in **Fig.49**;

4. Follow steps 3 and 4, from 'installing a surface mounting door station', to fit the module into the module support frame Ⓗ as shown in **Fig.37, Fig.38** and **Fig.39** (on pages 22 and 23);

5. Next take connecting cables Ⓔ and make the required terminal connections into the terminal block Ⓞ using the screwdriver provided Ⓟ (using the flat blade end), as shown in **Fig.50**;

6. Take the frame's hinges Ⓛ and hook the module support frame Ⓗ to the flush box Ⓒ, starting from the left following the guide arrows, as shown in **Fig.51.** Ensure that the frame's hinges Ⓛ **(Fig.51)** fit inside the relevant hinge mounts Ⓜ inside the flush box Ⓒ, as shown in **Fig.52**;

7. Next close in the front support frame Ⓗ and then pull it back from the flush box Ⓒ while moving it slightly to the left, following the guide arrows, as shown in **Fig.53**;

8. With the front support frame Ⓗ opened out (to allow for easy access to the hinge mounts Ⓜ) take the hinge locks Ⓝ and clip them in place locking into the hinge mounts Ⓜ, following the guide arrows as shown in **Fig.54**;

9. Next open the module support frame Ⓗ and clip the hinge locks Ⓝ to the hinge mounts Ⓜ, following the guide arrows, as shown in **Fig.54**;

10. Plug the terminal block Ⓞ (from step 5, **Fig.50**) into the module's terminal block connector Ⓠ, as shown in **Fig.55**. Make any other necessary panel adjustments required (connecting the antenna cable, fitting the SIM card and setting the dip-switches etc.);

11. After the system has been tested and is working correctly, move back the module support frame Ⓗ carefully and then fix it to the flush box Ⓒ using the screwdriver provided Ⓟ (using the torx end) and the torx pin security screws provided Ⓡ, as shown in **Fig.56. <u>Note: do not over tighten the screws more than is necessary.</u>**

NOTES

• The screwdriver's blade has two sides, one flat and one torx, to select one of them unplug the blade from the screwdriver body and plug it into the required side.
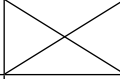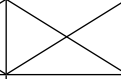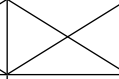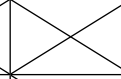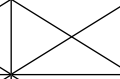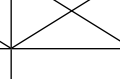
Programming via Alpha-Numeric Keypad

THE ALPHA-NUMERIC KEYPAD

Programming can be carried out using the onboard alpha-numeric keypad. When in programming mode the keypad can be used similar to mobile phone text typing. The following alpha-numeric table can be used when entering a username for example. The table shows the characters and symbols that can be entered into the panel by pressing a specific numeric button one or more times to select the character or symbol desired.

For the Art.4812R with the scroll buttons, ⇐ and ⇒ are not used. The call button 🔔 can also be used to confirm entry.

For the Art.4812 the alpha buttons A-F are not used.

Button No. / Number of Presses	1	2	3	4	5	6	7	8	9
1	\<space>	.	&	1					
2	A	B	C	2	a	b	c		
3	D	E	F	3	d	e	f		
4	G	H	I	4	g	h	i		
5	J	K	L	5	j	k	l		
6	M	N	O	6	m	n	o		
7	P	Q	R	S	7	p	q	r	s
8	T	U	V	8	t	u	v		
9	W	X	Y	Z	9	w	x	y	z
0	+	-	*	/	0				
⇐ ⇒ A B C D E F	unused buttons								
🔔 ↵	confirm entry								
✖	delete previous character/symbol and cancel								

Example:

When entering an apartment name, to type the name "VIDEX" the following buttons can be pressed on the keypad:

Press button **"8"** , 8 , 3 times = "V";

Press button **"4"** , 4 , 3 times = "I";

Press button **"3"** , 3 , once = "D";

Press button **"3"** , 3 , twice = "E";

Press button **"9"** , 9 , twice = "X";

Programming Flowcharts

ACCESSING MAIN PROGRAMMING MENU

4812

4812R

DEFAULT WELCOME SCREEN

Enter Number

18/11/16   08: 35

Enter Number
← Or Search →

18/11/16   08: 35

ENTER MASTER CODE

First press '0'. Enter the 4 digit master code (the default master code is '1111'), press the ENTER button ⬅ to continue to the main programming menu or the CLEAR button ✖ to return to the default welcome screen.

ENTER A CODE

✦ ✦ ✦ ✦

⬅ to confirm
✖ to cancel

MAIN PROGRAMMING MENU

From the main programming menu the following can be accessed:

1.Apartment menu, **2.**Proximity menu, **3.**General settings, **4.**Access code settings, **5.**Time settings. Press the relevant number to continue onto the next menu.

PROG. MENU   VER DG4.0.1

1: 👤   2: 🔲   3: 🛠

4: CODE   5: ⏱

✖ to exit

To exit from the main programming menu press the CLEAR button ✖ to return to the default welcome screen.

ACCESSING ADMIN MENU

4812

4812R

DEFAULT WELCOME SCREEN

Enter Number

18/11/16   08: 35

Enter Number
← Or Search →

18/11/16   08: 35

ENTER ADMIN CODE

First press '0'. Enter the 4 digit admin code (the default admin code is '0000'), press the ENTER button ⬅ to continue to the admin menu or the CLEAR button ✖ to return to the default welcome screen.

ENTER A CODE

✦ ✦ ✦ ✦

⬅ to confirm
✖ to cancel

ADMIN MENU

From the admin menu the following can be accessed:

1.Apartment menu, **2.**Proximity menu. Press the relevant number to continue onto the next menu.

PROG. MENU   VER DG4.0.1

1: 👤   2: 🔲

✖ to exit

To exit from the admin menu press the CLEAR button ✖ to return to the default welcome screen.

1. APARTMENT MENU 👤

MAIN PROGRAMMING MENU

```
PROG. MENU        VER DG4.0.1

 1: 👤   2: 🔲   3: 🛠

 4: CODE   5: ⏱

                    ✕ to exit
```

To exit from the main programming menu press the CLEAR button ✕ to return to the default welcome screen.

APARTMENT MENU

Press '1' to add/modify the apartment details and continue onto the mem.location screen or press '2' to delete the apartment details and continue onto the mem. location screen. To return to the main programming menu press the CLEAR button ✕.

```
 1. ADD/MODIFY APT
 2. DELETE APT



                    ✕ to exit
```

MEMORY LOCATION SCREEN
(range: 000 - 499)

```
    MEMORY LOCATION



          ⏎ to confirm
          ✕ to cancel
```

```
    MEMORY LOCATION



          ⏎ to confirm
          ✕ to cancel
```

MEMORY LOCATION *

Enter the mem. location to add/modify the apartment details then press the ENTER button ⏎ to confirm. To exit the mem. location and return to the apartment menu press the CLEAR button ✕.

```
  MEMORY LOCATION
  101


          ⏎ to confirm
          ✕ to cancel
```

```
  MEMORY LOCATION
  101


          ⏎ to confirm
          ✕ to cancel
```

APARTMENT INFO SCREEN

In the mem. location it is possible to add/modify the following apartment details: **1.**Apartment number, **2.**Door code, **3.**DTO number, **4.**Timeband, **5.**User Name, **6.**TEL1, **7.**TEL2, **8.**TEL3, **9.**TEL4. Press the relevant number to continue onto the appropriate editing screen.

```
1. APT:          2. CODE:
3. DTO: □        4. TB:
5. NAME:
6. TEL 1:
7. TEL 2:
8. TEL 3:
9. TEL 4:
SELECT 1-9        ✕ to exit
```

```



       DELETED


```

```
 APT:




       ⏎ to confirm
       ✕ to cancel
```

```
 CODE:




       ⏎ to confirm
       ✕ to cancel
```

```
 DTO: (1=SET, 0=UNSET)

 □


       ⏎ to confirm
       ✕ to cancel
```

1. APARTMENT NUMBER

Enter an apartment number then press the ENTER button ⏎ to confirm. To cancel out of the selection and return to the apartment information screen press the CLEAR button ✕.

2. DOOR CODE

Enter a door access code then press the ENTER button ⏎ to confirm. To cancel out of the selection and return to the apartment information screen press the CLEAR button ✕.

3. DTO (DIAL TO OPEN)

Press '1' to set or press '2' to unset the DTO facility, then press the ENTER button ⏎ to confirm. To cancel out of the selection and return to the apartment information screen press the CLEAR button ✕.

1. APARTMENT MENU 👤 (CONTINUED)

```
1. ADD/MODIFY APT
2. DELETE APT


                        ✕ to exit
```

```
1. APT:          2. CODE:
3. DTO: ☐        4. TB:
5. NAME:
6. TEL 1:
7. TEL 2:
8. TEL 3:
9. TEL 4:
SELECT 1-9      ✕ to exit
```

If no details require modifying to return back to the apartment menu press the CLEAR button ✕.

```
TB:
0



       ⇐ to confirm
       ✕ to cancel
```

4. TIMEBANDS

Enter a timeband (0 - 9), then press the ENTER button ⇐ to confirm. To cancel out of the selection and return to the apartment information screen press the CLEAR button ✕.

```
NAME:
_



       ⇐ to confirm
       ✕ to cancel
```

5. USER NAME

Use the alpha-numeric keypad (refer to the alpha-numeric table on page 13) to enter the user name (16 characters max.), then press the ENTER button ⇐ to confirm. To delete a character or cancel out of the selection and return to the previous screen press the CLEAR button ✕.

```
TEL 1:



       ⇐ to confirm
       ✕ to cancel
```

6. TEL1 (PRIMARY)

Enter the primary telephone number, then press the ENTER button ⇐ to confirm. To delete a character or cancel out of the selection and return to the apartment information screen press the CLEAR button ✕.

```
1. ADD/MODIFY APT
2. DELETE APT


                        ✕ to exit
```

```
1. APT:          2. CODE:
3. DTO: ☐        4. TB:
5. NAME:
6. TEL 1:
7. TEL 2:
8. TEL 3:
9. TEL 4:
SELECT 1-9      ✕ to exit
```

If no details require modifying to return back to the apartment menu press the CLEAR button ✕.

```
TEL 2:



       ⇐ to confirm
       ✕ to cancel
```

7. TEL2 (DIVERT 1)

Enter the 1st divert telephone number, then press the ENTER button ⇐ to confirm. To delete a character or cancel out of the selection and return to the apartment information screen press the CLEAR button ✕.

```
TEL 3:



       ⇐ to confirm
       ✕ to cancel
```

8. TEL3 (DIVERT 2)

Enter the 2nd divert telephone number, then press the ENTER button ⇐ to confirm. To delete a character or cancel out of the selection and return to the apartment information screen press the CLEAR button ✕.

```
TEL 4:



       ⇐ to confirm
       ✕ to cancel
```

9. TEL4 (DIVERT 3)

Enter the 3rd divert telephone number, then press the ENTER button ⇐ to confirm. To delete a character or cancel out of the selection and return to the apartment information screen press the CLEAR button ✕.

* IMPORTANT NOTE: Programming an access code into memory location '000' (via the Apartment Menu) will operate the auxiliary output AO for the programmed AO time (A1T). When a user enters this code via the keypad the digital GSM will show 'OK' on the display to confirm the auxiliary output AO has been activated. Please also note that activating the auxiliary output in this way is only possible when the auxiliary output mode A1M has been set to mode 001.

2. PROXIMITY MENU ◎

MAIN PROGRAMMING MENU

```
PROG. MENU        VER DG4.0.1

  1: (●)   2: ◎   3: ⚒

  4: CODE  5: ⏱

                    ✖ to exit
```

To exit from the main programming menu press the CLEAR button ✖ to return to the default welcome screen.

PROXIMITY MENU

Press '1' to add a proximity fob and continue onto the mem. location screen or press '2' to delete a proximity fob and continue onto the mem. location screen. To return to the main programming menu press the CLEAR button ✖.

```
1. ADD/MODIFY FOB
2. DELETE FOB




                    ✖ to exit
```

MEMORY LOCATION SCREEN
(range: 0000 - 1999)

```
MEMORY LOCATION



        ⏎ to confirm
        ✖ to cancel
```

```
MEMORY LOCATION



        ⏎ to confirm
        ✖ to cancel
```

MEMORY LOCATION *

Enter the mem. location to add the proximity fob to and then press the ENTER button ⏎ to confirm. To exit the mem. location and return to the proximity menu press the CLEAR button ✖.

```
MEMORY LOCATION
101

        ⏎ to confirm
        ✖ to cancel
```

```
MEMORY LOCATION
101

        ⏎ to confirm
        ✖ to cancel
```

PRESENT FOB SCREEN
(please note that the example shown is based on the prox bytes being set to read for 2 bytes)

```
PRESENT FOB
   ◎
 65535
   ⏎ to confirm
   ✖ to cancel
```

```
DELETED
```

PRESENT FOB

On the present fob screen place the fob towards the top of the display (near the panel's speaker grill). The fob's 5 digit site code will be displayed in the middle of the screen. Press the ENTER button ⏎ to confirm and return back to the proximity menu.

```
PRESENT FOB
   ◎
 16513
   ⏎ to confirm
   ✖ to cancel
```

To exit from the present fob screen without saving any fob data press the CLEAR button ✖ to return back to the proximity menu.

* IMPORTANT NOTE: Programming a proximity fob/card into memory location '0000' (via the Proximity Menu) will operate the auxiliary output AO for the programmed AO time (A1T). When a user presents the programmed fob/card to the onboard reader the digital GSM will show 'OK' on the display to confirm the auxiliary output AO has been activated. Please also note that activating the auxiliary output in this way is only possible when the auxiliary output mode A1M has been set to mode 001.

3. GENERAL SETTINGS ⚒

MAIN PROGRAMMING MENU

```
PROG. MENU        VER DG4.0.1

1: 👤   2: 🔲   3: ⚒

4: CODE  5: ⏱

              ⊠ to exit
```

To exit from the main programming menu press the CLEAR button ⊠ to return to the default welcome screen.

GENERAL SETTINGS MENU

On the settings screen it is possible to adjust/set the following: **1.**Aux mode, **2.**Speaker volume, **3.**Mic volume, **4.**Speech board volume, **5.**Speech board mode, **6.**Prox bytes, **7.**Prox enable/disable, **8.**Gate mode. Press the relevant button to change the settings.

```
1. AUX MODE: 1      8. GATE: □
2. SPK VOL: 10      9. LANG: ENG
3. MIC VOL: 5
4. SB VOL: 85
5. SB MODE: 3
6. PROX BYTES: 2
7. PROX ENABLED: □
                    ⊠ to exit
```

```
AUX MODE: (0-2)

[1]

       ⇐ to confirm
       ⊠ to cancel
```

1. AUXILIARY MODE

The default aux mode will be displayed on the screen. To change the mode enter the aux mode required (0 - 2), then press the ENTER button ⇐ to confirm. To cancel and return to the general settings menu press the CLEAR button ⊠.

```
SPK VOL: (0-14)

[10]

       ⇐ to confirm
       ⊠ to cancel
```

2. SPEAKER VOLUME

The default speaker volume will be displayed on the screen. To adjust the volume enter the level required (0 - 14), then press the ENTER button ⇐ to confirm. To cancel and return to the general settings menu press the CLEAR button ⊠.

```
MIC VOL: (0-7)

[5]

       ⇐ to confirm
       ⊠ to cancel
```

3. MIC VOLUME

The default mic volume will be displayed on the screen. To adjust the volume enter the level required (0 - 7), then press the ENTER button ⇐ to confirm. To cancel and return to the general settings menu press the CLEAR button ⊠.

GENERAL SETTINGS MENU

```
1. AUX MODE: 1      8. GATE: □
2. SPK VOL: 10      9. LANG: ENG
3. MIC VOL: 5
4. SB VOL: 85
5. SB MODE: 3
6. PROX BYTES: 2
7. PROX ENABLED: □
                    ⊠ to exit
```

If no settings require adjusting then to return to the main programming menu press the CLEAR button ⊠.

```
SB VOL: (0-99)

[85]

       ⇐ to confirm
       ⊠ to cancel
```

4. SPEECH BOARD VOLUME

The default speech board volume will be displayed on the screen. To adjust the volume enter the level required (0 - 99), then press the ENTER button ⇐ to confirm. To cancel and return to the general settings menu press the CLEAR button ⊠.

```
SB MODE: (1-3)

[3]

       ⇐ to confirm
       ⊠ to cancel
```

5. SPEECH BOARD MODE

The default speech board mode will be displayed on the screen and is set to mode 3 (combined speech playback). Select the required mode then press the ENTER button ⇐ to confirm. To cancel and return to the general settings menu press the CLEAR button ⊠.

```
PROX BYTES: (2-4)

[2]

       ⇐ to confirm
       ⊠ to cancel
```

6. PROXIMITY BYTES

The default prox byte setting will be displayed on the screen and is set to read for 2 bytes. Select the prox byte setting required then press the ENTER button ⇐ to confirm. To cancel and return to the general settings menu press the CLEAR button ⊠.

3. GENERAL SETTINGS ⚒ (CONTINUED)

GENERAL SETTINGS MENU

```
1.  AUX  MODE: 1      8.  GATE: ☐
2.  SPK  VOL: 10      9.  LANG: ENG
3.  MIC  VOL: 5
4.  SB  VOL: 85
5.  SB  MODE: 3
6.  PROX  BYTES: 2
7.  PROX  ENABLED: ☐
                        ⚒ to exit
```

If no settings require adjusting then to return to the main programming menu press the CLEAR button ⚒.

PROX ENABLE: (0-1)

☐

⏎ to confirm
⚒ to cancel

GATE: (0-1)

☑

⏎ to confirm
⚒ to cancel

LANGUAGE: (0-1)

ENG

⏎ to confirm
⚒ to cancel

7. PROXIMITY READER ENABLE

By default the onboard proximity reader is disabled (switched OFF), the check box will be 'unchecked'. To enable the reader press 1 then the ENTER button ⏎ to confirm. To cancel and return to the general settings menu press the CLEAR button ⚒.

8. GATE MODE

By default the panel's gate mode is enabled, the check box will be 'ticked'. To change this setting so that the panel displays/announces the 'door is open' press 0 then the ENTER button ⏎ to confirm. To cancel and return to the general settings menu press the CLEAR button ⚒.

9. LANGUAGE*

By default the panel's display language is set to English. To set the language use button 1 [1] to scroll forwards and button 0 [0] to scroll back to make the required selection, then press the ENTER button ⏎ to confirm. To cancel and return to the general settings menu press the CLEAR button ⚒.

*IMPORTANT NOTE: When setting the language only the panels on screen display messages (e.g. calling apartment 'nnn', enter number, door open etc.) will be shown in the chosen language. The digital GSM's on screen programming menus will still be displayed in English. Fig.57 shows an example of what the panel would display when calling an apartment if the language has been set to ITA (italian).

The list of supported languages (in scrolling order) : **ENG** (English); **ITA** (Italian); **SPA** (Spanish); **POR** (Portuguese); **FRA** (French); **GER** (German); **CZE** (Czech); **CRO** (Croatian); **DAT** (Dutch); **POL** (Polish); **SLO** (Slovenian); **DAN** (Danish); **NOR** (Norwegian) and **HEB** (Hebrew).

Chiamando APT 5

Fig. 57

4. CODE MENU

MAIN PROGRAMMING MENU

```
PROG.  MENU        VER DG4.0.1

1: 👤   2: 🔲   3: 🔧

4: CODE   5: ⏱

            ✕ to exit
```

To exit from the main programming menu press the CLEAR button ✕ to return to the default welcome screen.

CODE MENU

On the main code menu it is possible to change the following codes: **1.**Master code, **2.**Admin code, **3.**Trade code. Press the relevant button to change the code. To return to the main programming menu press the CLEAR button ✕.

```
1. MASTER CODE
2. ADMIN CODE
3. TRADE CODE



            ✕ to exit
```

```
MASTER CODE(4 DIGITS)
1111


    ⏎ to confirm
    ✕ to cancel
```

1. MASTER CODE

The default or master code (1111) will be displayed on the screen. To change the code enter the new code required then press the ENTER button ⏎ to confirm. To cancel and return to the main code menu press the CLEAR button ✕.

```
ADMIN CODE(4 DIGITS)
0000


    ⏎ to confirm
    ✕ to cancel
```

2. ADMIN CODE

The default admin code (0000) will be displayed on the screen. To change the code enter the new code required then press the ENTER button ⏎ to confirm. To cancel and return to the main code menu press the CLEAR button ✕.

```
TRADE CODE(4 DIGITS)
2222


    ⏎ to confirm
    ✕ to cancel
```

3. TRADE CODE

The default or current trade code (2222) will be displayed on the screen. To change the code enter the new code required then press the ENTER button ⏎ to confirm. To cancel and return to the main code menu press the CLEAR button ✕.

5. TIME SETTINGS MENU ⏱

PROG. MENU   VER DG4.0.1

1: 👤 2: 🖲 3: 🛠

4: CODE 5: ⏱

✕ to exit

MAIN PROGRAMMING MENU

To exit from the main programming menu press the CLEAR button ✕ to return to the default welcome screen.

TIME SETTINGS MENU

On the time settings menu it is possible to setup the following: **1.**Call time, **2.**Divert time, **3.**Open time, **4.**Aux time, **5.**Timebands, **6.**LCD time. Press the relevant button to setup the appropriate time. To return to the main programming menu press the CLEAR button ✕.

1. CALL TIME: 040
2. DIVERT TIME: 015
3. OPEN TIME: 005
4. AUX TIME: 005
5. TIMEBANDS
6. LCD TIME: 000
✕ to exit

CALL TIME: (1-255 Sec)
040

⏎ to confirm
✕ to cancel

DIVERT TIME: (1-255 Sec)
015

⏎ to confirm
✕ to cancel

OPEN TIME: (1-255 Sec)
005

⏎ to confirm
✕ to cancel

1. CALL TIME

The default call time will be displayed on the screen. To change the time enter the new time required (1-255 seconds) then press the ENTER button ⏎ to confirm. To cancel and return to the time settings menu press the CLEAR button ✕.

2. DIVERT TIME

The default divert time will be displayed on the screen. To change the time enter the new time required (1-255 seconds) then press the ENTER button ⏎ to confirm. To cancel and return to the time settings menu press the CLEAR button ✕.

3. OPEN TIME

The default door open time will be displayed on the screen. To change the time enter the new time required (1-255 seconds) then press the ENTER button ⏎ to confirm. To cancel and return to the time settings menu press the CLEAR button ✕.

1. CALL TIME: 040
2. DIVERT TIME: 015
3. OPEN TIME: 005
4. AUX TIME: 005
5. TIMEBANDS
6. LCD TIME: 000
✕ to exit

TIME SETTINGS MENU

To exit from the time settings menu press the CLEAR button ✕ to return to the main programming menu.

AUX TIME: (1-255 Sec)
005

⏎ to confirm
✕ to cancel

TIMEBANDS
0> 0000-2359	1> 0000-2359
2> 0000-2359	3> 0000-2359
4> 0000-2359	5> 0000-2359
6> 0000-2359	7> 0000-2359
8> 0000-2359	9> 0000-2359

SELECT 1-9   ✕ to exit

LCD TIME: (1-255 Sec)
000

⏎ to confirm
✕ to cancel

4. AUX TIME

The default auxiliary input time will be displayed on the screen. To change the time enter the new time required (1-255 seconds) then press the ENTER button ⏎ to confirm. To cancel and return to the time settings menu press the CLEAR button ✕.

5. TIMEBANDS

Refer to the flowchart on page 35 to set up timebands 1-9. Timeband 0 is the default timeband and is set as "0000-2359" and cannot be changed.

6. LCD TIME

The default LCD switch time will be displayed on the screen. To change the time enter the new time required (1-255 seconds) then press the ENTER button ⏎ to confirm. To cancel and return to the time settings menu press the CLEAR button ✕.

5. TIME SETTINGS MENU ⏱ (CONTINUED)

TIME SETTINGS MENU

```
1. CALL  TIME: 040
2. DIVERT  TIME: 015
3. OPEN  TIME: 005
4. AUX  TIME: 005
5. TIMEBANDS
6. LCD  TIME: 000
                    ✖ to exit
```

If no time settings require adjusting then to return to the main programming menu press the CLEAR button ✖.

TIMEBAND LIST

From the timeband list it is possible to select a timeband that requires changing or setting up. Press the relevant button, from 1-9, to change the timeband required. If no timeband requires amending to return to the time settings menu press the CLEAR button ✖.

```
TIMEBANDS
0> 0000-2359      1> 0000-2359
2> 0000-2359      3> 0000-2359
4> 0000-2359      5> 0000-2359
6> 0000-2359      7> 0000-2359
8> 0000-2359      9> 0000-2359
SELECT  1-9        ✖ to exit
```

*When entering a time period on the timebands screen the time must be entered using 24 hour clock notation, e.g. a timeband of 9:30am to 4:35pm would be entered as 09:30-16:35.

```
TIMEBANDS
1>00: 00-23: 59

        ⏎ to confirm
        ✖ to cancel
```

TIMEBAND SCREEN

The current time period will be displayed on the screen. To change the timeband use the alpha-numeric keypad to enter the new timeband* required then press the ENTER button ⏎ to confirm. To cancel and return to the timeband list press the CLEAR button ✖.

Programming Screens

VIDEX
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MAIN PROGRAMMING MENU

From the main programming menu (refer to **Fig.58**) it is possible to access the following sub menus:

1. Apartment menu
2. Proximity menu
3. General settings menu
4. Code menu
5. Time settings menu
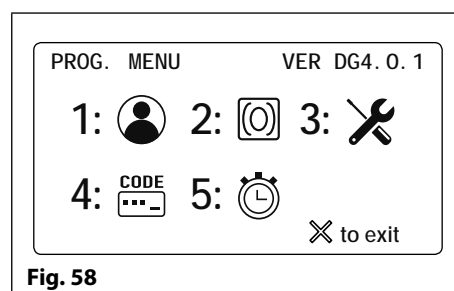
Fig. 58

ADMIN MENU

From the admin menu (refer to **Fig.59**) it is possible to only access the following two sub menus:

1. Apartment menu
2. Proximity menu
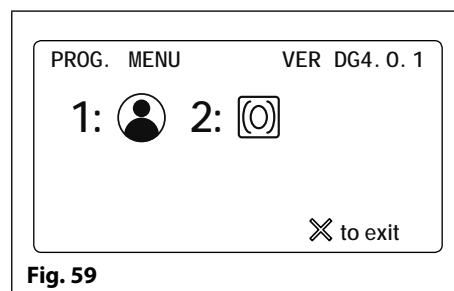
Fig. 59

Please note that the current firmware version of the digital GSM is shown in the top right corner of both the main programming and admin menus.

1.1 APARTMENT MENU (ADD/MODIFY APT)

From the apartment menu (refer to **Fig.60**) it is possible to edit the following details:

1. Add or modify apartment details
2. Delete apartment details

Selecting option 1 from the apartment menu will first access the memory location screen and then from there the apartment information screen (refer to **Fig.61**).

The apartment information screen has 9 available options that allows the following information to be entered, enabled and/or assigned:

1. Apartment number (APT)
2. Door/gate access code (CODE)
3. Dial to open number enable (DTO)
4. Timeband assignment (TB)
5. Username (NAME)
6. Primary telephone number (TEL1)
7. First divert number (TEL2)
8. Second divert number (TEL3)
9. Third divert (TEL4)
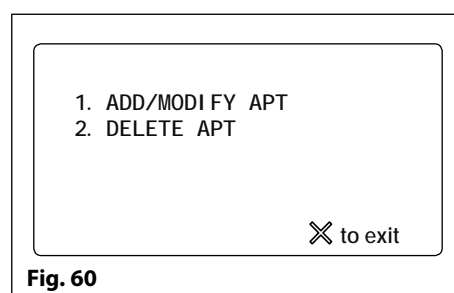
Fig. 60
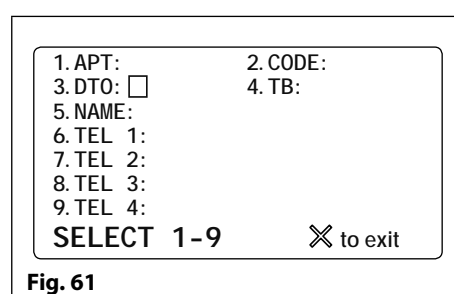
Fig. 61

1.1.1 APARTMENT NUMBER (APT)

The apartment number can be entered on the apartment screen (refer to **Fig.62**) and can be made up of a maximum of 6 digits or letters (A - F only) or a combination of both e.g. apartment 100A, 100B etc.
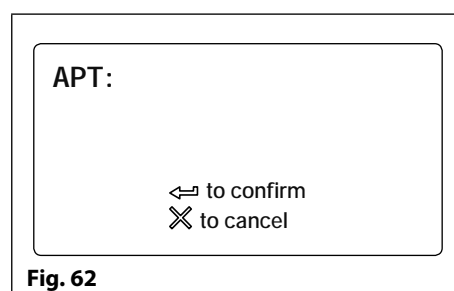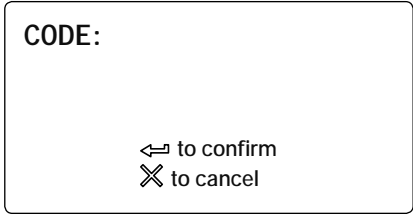
Fig. 62

1.1.2 DOOR/GATE ACCESS CODE

The door/gate access code can be entered on the code screen (refer to **Fig.63**) and can be made up of a maximum of 6 digits (no letters).

IMPORTANT NOTE: Remember if programming an access code into memory location '000' it will only operate the auxiliary output AO for the programmed AO time (A1T) and not the onboard relay. Please also note that activating the auxiliary output in this way is only possible when the auxiliary output mode A1M has been set to mode 001.
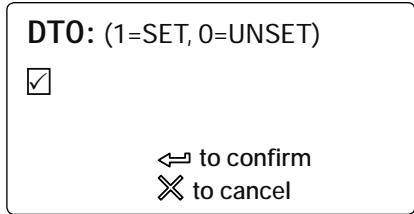
```
CODE:

              ⇐ to confirm
              ✗ to cancel
```
Fig. 63

1.1.3 DIAL TO OPEN NUMBER (DTO)
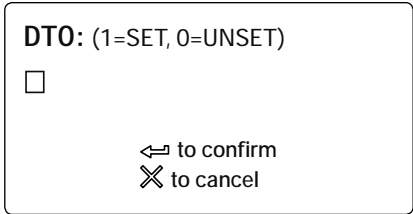
The dial to open (DTO) number can be enabled on the DTO screen. Enter "1" to enable (set, refer to **Fig.64**) the dial to open number or "0" to disable (unset, refer to **Fig.65**) the dial to open number. When set the primary and 3 divert numbers are automatically set as dial to open numbers.

```
DTO: (1=SET, 0=UNSET)
☑

          ⇐ to confirm
          ✗ to cancel
```
Fig. 64
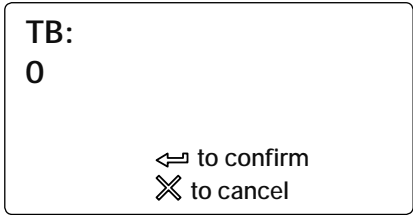
```
DTO: (1=SET, 0=UNSET)
☐

          ⇐ to confirm
          ✗ to cancel
```
Fig. 65

1.1.4 TIMEBAND (TB)

A timeband can be assigned, to an apartment or apartments for when they can be called, on the timeband assignment screen (refer to **Fig.66**). The default timeband setting is "0" (0000 - 2359), calls to the apartments are enabled all the time. Timeband "0" cannot be changed, timebands 1 - 9 are programmable and can be set on the timeband set up screen (refer to **Fig.98** and **Fig.99** on page 43).
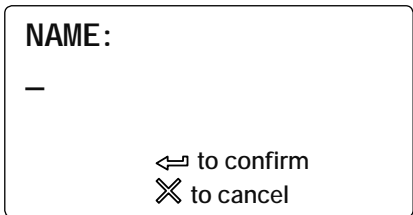
```
TB:
0

          ⇐ to confirm
          ✗ to cancel
```
Fig. 66

1.1.4 USERNAME (NAME)

A username can be entered for an apartment on the username screen (refer to **Fig.67**). A maximum of 16 characters can be entered via the alpha-numeric keypad following the keypad programming table on page 26.
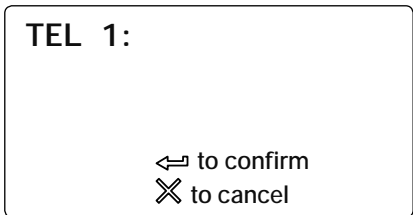
```
NAME:
_

          ⇐ to confirm
          ✗ to cancel
```
Fig. 67

1.1.5 TELEPHONE NUMBERS (PRIMARY NUMBER AND 3 DIVERT NUMBERS)

Options 6 (TEL1), 7 (TEL2), 8 (TEL3) and 9 (TEL4) on the apartment information screen is where the primary telephone number and the 3 divert numbers can be programmed respectively (refer to **Fig.68, Fig.69, Fig.70** and **Fig.71**) and can be a maximum of 30 digits. If a landline number is being programmed then the full regional dialing code must be included as part of the telephone number.

```
TEL 1:

          ⇐ to confirm
          ✗ to cancel
```
Fig. 68

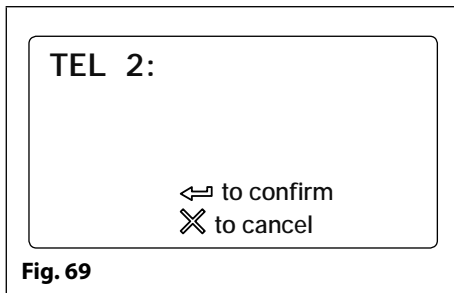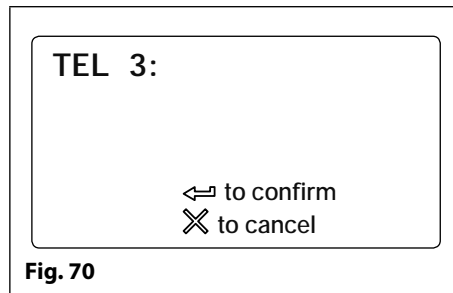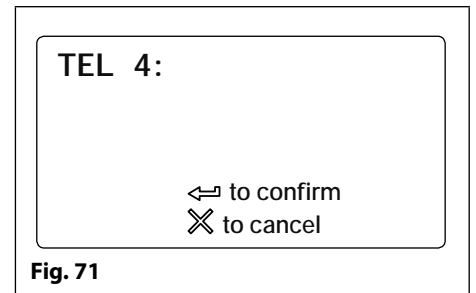|		
TEL 2: ⇐ to confirm ✕ to cancel	TEL 3: ⇐ to confirm ✕ to cancel	TEL 4: ⇐ to confirm ✕ to cancel
Fig. 69	**Fig. 70**	**Fig. 71**

1.2 APARTMENT MENU (DELETE APT)

Selecting option 2 from the apartment menu will access the memory location screen (refer to **Fig.72**). Enter the memory location of the apartment to delete and press the ENTER button. The deleted screen will appear (refer to **Fig.73**) to confirm the apartment details have been deleted and then return back to the apartment menu.
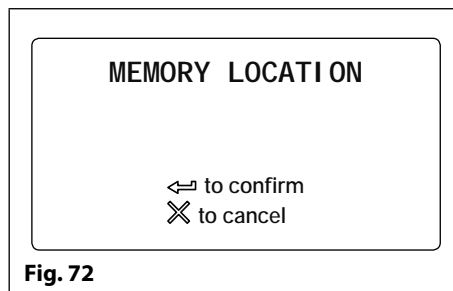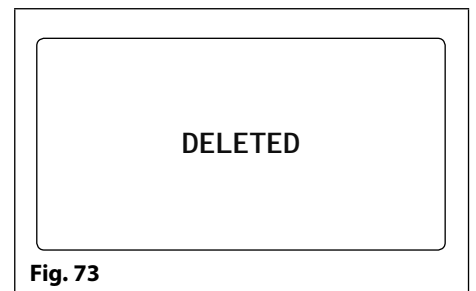
MEMORY LOCATION ⇐ to confirm ✕ to cancel	DELETED
Fig. 72	**Fig. 73**

IMPORTANT NOTE: **When deleting a memory location all the user's information is deleted from the digital GSM intercom (telephone numbers, username, apartment number etc.).**

2.1 PROXIMITY MENU (ADD/MODIFY FOB) ◎

From the proximity menu (refer to **Fig.74**) it is possible to edit the following details:

1. Add or modify fob details
2. Delete fob details

Selecting option 1 from the proximity menu will first access the memory location screen (refer to **Fig.72**) and then from there the default present fob screen. The default present fob screen that the panel shows will depend on which prox byte setting the panel has been set to (refer to **Fig.75** for 2 bytes, **Fig.76** for 3 bytes and **Fig.77** for 4 bytes). The prox byte setting can be changed on the general settings screen, option 6. Also see prox byte notes on page 40.
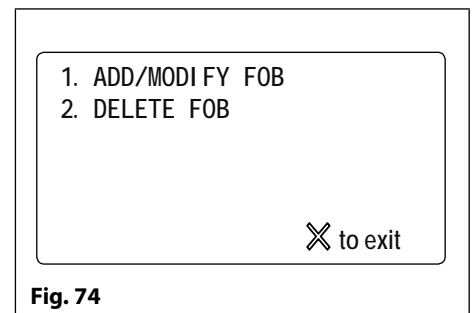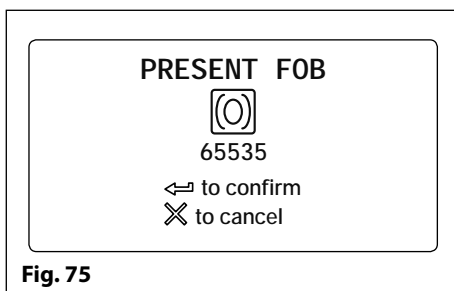
1. ADD/MODIFY FOB 2. DELETE FOB ✕ to exit
Fig. 74

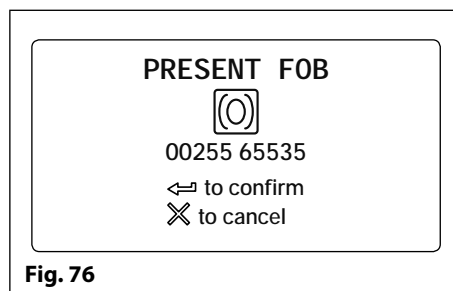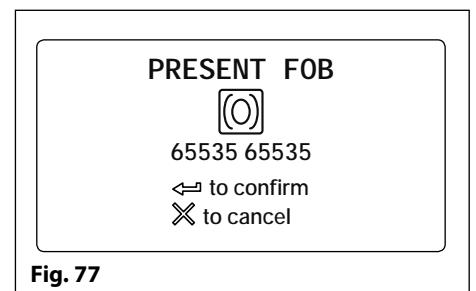|		
PRESENT FOB ◎ 65535 ⇐ to confirm ✕ to cancel	PRESENT FOB ◎ 00255 65535 ⇐ to confirm ✕ to cancel	PRESENT FOB ◎ 65535 65535 ⇐ to confirm ✕ to cancel
Fig. 75	**Fig. 76**	**Fig. 77**

When the present fob screen appears place the proximity fob towards the display, in front of the fob symbol, as shown in **Fig.78**. The display will show the fob number just below the fob symbol once it has read the fob. To confirm and save the details press the ENTER button and the screen will revert back to the proximity menu (see **Fig.74**).

IMPORTANT NOTE: Remember when programming a proximity fob/card into memory location '0000' it will only operate the auxiliary output AO for the programmed AO time (A1T) and not the onboard relay. Please also note that activating the auxiliary output in this way is only possible when the auxiliary output mode A1M has been set to mode 001.
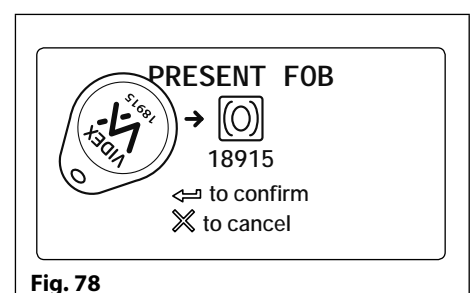
PRESENT FOB → ◎ 18915 ⇐ to confirm ✕ to cancel
Fig. 78

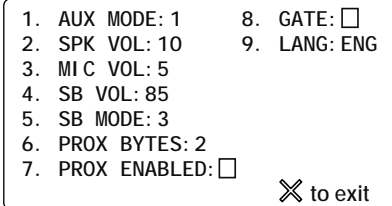## 2.2 PROXIMITY MENU (DELETE/FOB)

Selecting option 2 from the proximity menu will access the memory location screen (refer to **Fig.72**). Enter the memory location of the fob to delete and press the ENTER button. The deleted screen will appear (refer to **Fig.73**) to confirm the apartment details have been deleted and then revert back to the proximity menu.

3 GENERAL SETTINGS MENU ⚒

From the general settings menu (refer to **Fig.79**) it is possible to adjust the following panel settings:

1. Auxiliary mode
2. Speaker volume
3. Microphone volume
4. Speechboard volume
5. Speechboard mode
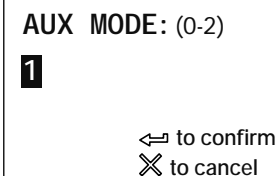6. Proximity bytes
7. Proximity enable
8. Gate mode

```
1.  AUX  MODE: 1        8.  GATE: ☐
2.  SPK  VOL: 10        9.  LANG: ENG
3.  MIC  VOL: 5
4.  SB  VOL: 85
5.  SB  MODE: 3
6.  PROX  BYTES: 2
7.  PROX  ENABLED: ☐
                              ⚒ to exit
```
Fig. 79

After each menu option the current mode or setting for the panel is shown (on initial install the default modes and settings will be displayed as shown in **Fig.79**). Press the relevant button on the panel to select the menu option that requires adjustment.

3.1 AUXILIARY MODE (AUX MODE)

Selecting option 1 from the general settings menu will access the auxiliary mode screen (see **Fig.80**). From this screen the mode of the auxiliary output AI can be set. The current setting will be highlighted on the second line of the screen (see **Fig.80**). The default setting is set to mode 1. To set the AI mode select one of the following:

0. **On during a call** - the AI output will activate when a call begins and deactivate when the call ends.

1. **On when triggered (default mode)** - the AI output will only activate when button 6 on the telephone is pressed during a call.

2. **Call activated (timed)** - the AI output will activate when a call begins and deactivate when the auxiliary output time ends.

```
AUX  MODE: (0-2)
1

            ⇐ to confirm
            ⚒ to cancel
```
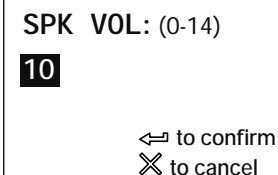**Fig. 80**

To confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).
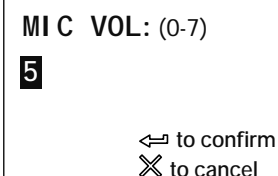
3.2 SPEAKER VOLUME (SPK VOL)

Selecting option 2 from the general settings menu will access the speaker volume control screen (refer to **Fig.81**). On this screen the speaker volume of the GSM panel can be adjusted. The current setting will be highlighted on the second line of the screen (see **Fig.81**). The default speaker volume level is set to 10 and can be adjusted between 0 (low) up to 14 (high). Enter the volume level required then to confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).

```
SPK  VOL: (0-14)
10

            ⇐ to confirm
            ⚒ to cancel
```
Fig. 81

3.3 MICROPHONE VOLUME (MIC VOL)

Selecting option 3 from the general settings menu will access the microphone volume control screen (refer to **Fig.82**). On this screen the microphone volume of the GSM panel can be adjusted. The current setting will be highlighted on the second line of the screen (see **Fig.82**). The default microphone volume level is set to 5 and can be adjusted between 0 (low) up to 7 (high). Enter the volume level required then to confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).

```
MIC  VOL: (0-7)
5

            ⇐ to confirm
            ⚒ to cancel
```
**Fig. 82**

3.4 SPEECHBOARD VOLUME (SB VOL)

Selecting option 4 from the general settings menu will access the speechboard volume control screen (refer to **Fig.83**). On this screen the speechboard volume of the GSM panel can be adjusted. The current setting will be highlighted on the second line of the screen (see **Fig.83**). The default speechboard volume level is set to 85 and can be adjusted between 0 (low) up to 99 (high). Enter the volume level required then to confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).
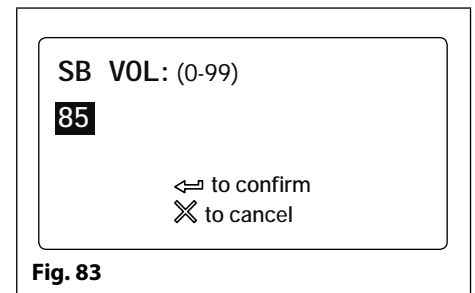
```
SB VOL: (0-99)
85

          ⇐ to confirm
          ✕ to cancel
```
Fig. 83

3.5 SPEECHBOARD MODE (SB MODE)

Selecting option 5 from the general settings menu will access the speechboard mode screen (refer to **Fig.84**. From this screen the speechboard mode can be set. The current setting will be highlighted on the second line of the screen (see **Fig.84**). Three modes are available: mode 1, 2 or 3 (see mode options below). The default setting is set to mode 3. To set the speechboard mode select one of the following:

> MODE 1 - **Speechboard disabled** - the speechboard will be switched OFF (no speech annunciation will be heard through the panel's speaker).

> MODE 2 - **Individual speech playback** - the speechboard will be switched ON. When an apartment is called the panel's speechboard will playback the individual numbers that make up an apartment number e.g. if calling apartment 25 the speech will playback "calling two five".

> MODE 3 - **Combined speech playback (default mode)** - the speechboard will be switched ON. When an apartment is called the panel's speechboard will playback the combined numbers that make up an apartment number e.g. if calling apartment 36 the speech will playback "calling thirty six".
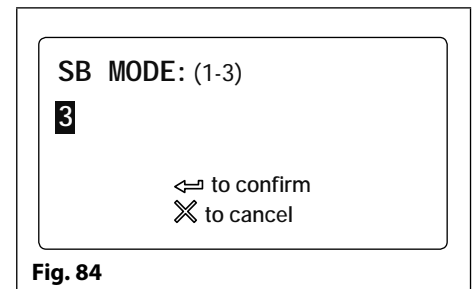
```
SB MODE: (1-3)
3

          ⇐ to confirm
          ✕ to cancel
```
Fig. 84

To confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).

3.6 PROX BYTE SETTING (PROX BYTES)

Selecting option 6 from the general settings menu will access the proximity byte setting screen (refer to **Fig.85**). From this screen the number of proximity bytes that the onboard reader checks can be set. The current setting will be highlighted on the second line of the screen (see **Fig.85**). There are three byte settings that the panel's reader can be set to check for: 2, 3 or 4 bytes (see byte settings below). The default setting is set to check for 2 bytes. To set the number of bytes select one of the following:

> 2 **Bytes (default setting)** - set the panel to check for 2 bytes if the proximity fob/card has no site code and only a 5 digit user code (955/T fobs or 955/C cards).

> 3 **Bytes** - set the panel to check for 3 bytes if the proximity fob/card has a 3 digit site code and a 5 digit user code (PBX1E fobs or PBX2 cards).

> 4 **Bytes** - set the panel to check for 4 bytes for proximity fobs/cards that have a longer site code and a 5 digit user code.
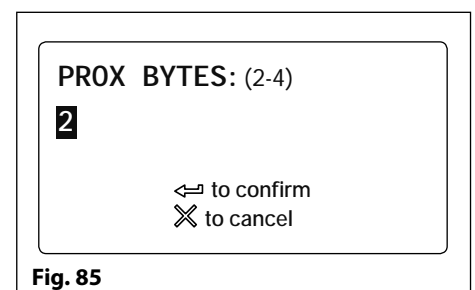
```
PROX BYTES: (2-4)
2

          ⇐ to confirm
          ✕ to cancel
```
**Fig. 85**

To confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).

3.7 PROXIMITY READER ENABLE/DISABLE (PROX ENABLE)

Selecting option 7 from the general settings menu will access the proximity reader enable screen (refer to **Fig.86**). On this screen the proximity reader on the GSM panel can be switched ON and OFF. The current setting will be indicated on the second line of the screen with or without a tick in the check box (see **Fig.86**). By default the onboard reader will be switched OFF. Enter a "0" (reader switched OFF) to disable the reader or a "1" (reader switched ON) to enable the reader. To confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).

```
PROX ENABLE: (0-1)
☐

          ⇐ to confirm
          ✕ to cancel
```
Fig. 86
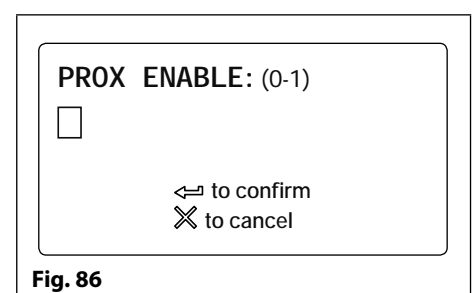
3.8 GATE MODE (GATE)

Selecting option 8 from the general settings menu will access the gate mode screen (refer to **Fig.87**). On this screen the gate mode of the panel can be set. The current setting will be indicated on the second line of the screen with or without a tick in the check box (see **Fig.87**). By default the gate mode is set with the check box ticked. To set the gate mode enter one of the following:

0 - ☐ When set in this mode and the panel's onboard relay is activated the display will show that the door is open (refer to **Fig.109** on page 61). The speech annunciation (if the speechboard is switched ON) will announce "the door is open".

1 - ☑ When set in this mode and the panel's onboard relay is activated the display will show that the gate is open (refer to **Fig.110** on page 61). The speech annunciation (if the speechboard is switched ON) will announce "the gate is open".
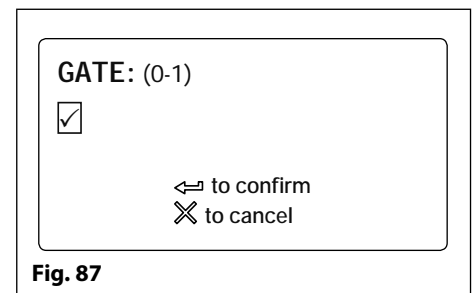
```
GATE: (0-1)

☑

            ⬅ to confirm
            ✗ to cancel
```
**Fig. 87**

To confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).

3.9 LANGUAGE (LANG)

Selecting option 9 from the general settings menu will access the language selection screen (refer to **Fig.88**). On this screen the desired language can be selected. The current language setting will be highlighted on the second line of the screen (see **Fig.88**). By default English is already set.

It should be noted that only the panels on screen display messages (e.g. calling apartment 'nnn', enter number, door open etc.) will be shown in the chosen language. The digital GSM's on screen programming menus will still be displayed in English.

To set the language use button 1 [1] to scroll forwards and button 0 [0] to scroll back to make the required selection, then press the ENTER button [⬅] to confirm and the screen will revert back to the general settings menu (refer to **Fig.79**).

```
LANGUAGE: (0-1)
ENG

            ⬅ to confirm
            ✗ to cancel
```
Fig. 88

The list of supported languages (in scrolling order) : **ENG** (English); **ITA** (Italian); **SPA** (Spanish); **POR** (Portuguese); **FRA** (French); **GER** (German); **CZE** (Czech); **CRO** (Croatian); **DAT** (Dutch); **POL** (Polish); **SLO** (Slovenian); **DAN** (Danish); **NOR** (Norwegian) and **HEB** (Hebrew).
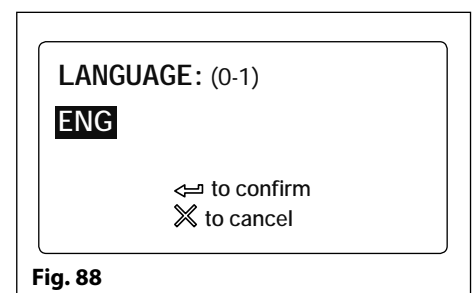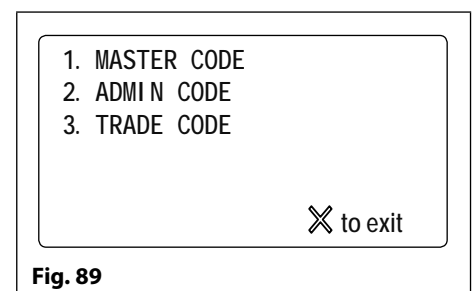
4 CODE MENU

From the code menu (refer to **Fig.89**) it is possible to edit the following access codes:

1. Master code (by default is set to "1111")
2. Admin code (by default is set to "0000")
3. Trade code (by default is set to "2222")

Press the relevant button (1, 2 or 3) to change the required access code.

```
1. MASTER CODE
2. ADMIN CODE
3. TRADE CODE

            ✗ to exit
```
Fig. 89

4.1 MASTER CODE

Selecting option 1 from the code menu will access the master code screen (refer to **Fig.90**). On this screen the master code of the GSM panel can be changed. The current setting will be highlighted on the second line of the screen (see **Fig.90**). By default the master code is set to "1111" and can be changed to any 4 digit number, but must be kept as a 4 digit number. Enter the new code required then to confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).

```
MASTER CODE(4 DIGITS)
1111

            ⬅ to confirm
            ✗ to cancel
```
Fig. 90
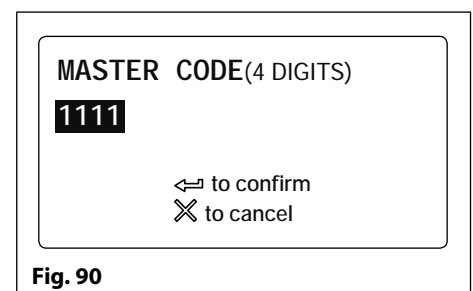
4.2 ADMIN CODE

Selecting option 2 from the code menu will access the admin code screen (refer to **Fig.91**). On this screen the admin code of the GSM panel can be changed. The current setting will be highlighted on the second line of the screen (see **Fig.91**). By default the admin code is set to "0000" and can be changed to any 4 digit number, but must be kept as a 4 digit number. Enter the new code required then to confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).

```
ADMIN CODE (4 DIGITS)
0000

              ⇐ to confirm
              ✖ to cancel
```
Fig. 91

4.3 TRADE CODE

Selecting option 3 from the code menu will access the trade code screen (refer to **Fig.92**). On this screen the trade code of the GSM panel can be changed. The current setting will be highlighted on the second line of the screen (see **Fig.92**). By default the trade code is set to "2222" and can be changed to any 4 digit number, but must be kept as a 4 digit number. Enter the new code required then to confirm and save the setting press the ENTER button and the screen will revert back to the general settings menu (refer to **Fig.79**).
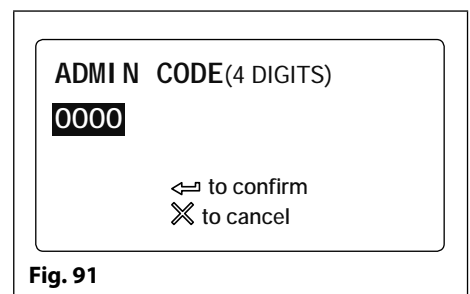
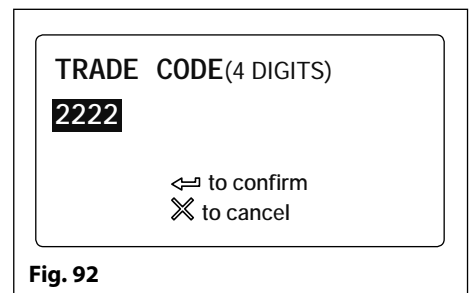IMPORTANT NOTE: **The trade code will only operate when the TRD connection is shorted to 0V.**

```
TRADE CODE (4 DIGITS)
2222

              ⇐ to confirm
              ✖ to cancel
```
Fig. 92

5 TIME SETTINGS MENU ⏱

From the time settings menu (refer to **Fig.93**) it is possible to adjust the following panel settings:

1. Call time

2. Divert time

3. Open time

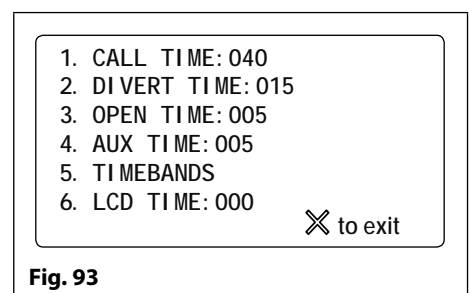4. Aux time

5. Timebands

6. LCD time

```
1. CALL TIME: 040
2. DIVERT TIME: 015
3. OPEN TIME: 005
4. AUX TIME: 005
5. TIMEBANDS
6. LCD TIME: 000
              ✖ to exit
```
Fig. 93

After each menu option the current mode or setting for the panel is shown (on initial install the default modes and settings will be displayed as shown in **Fig.93**). Press the relevant button on the panel to select the menu option that requires adjustment.

5.1 CALL TIME

Selecting option 1 from the time settings menu will access the call time screen (refer to **Fig.94**). On this screen the call time of the GSM panel can be adjusted. The current setting will be highlighted on the second line of the screen (see **Fig.94**). The default call time is set to 40 seconds and can be adjusted from 1 second up to 255 seconds. Enter the call time required then to confirm and save the setting press the ENTER button and the screen will revert back to the time settings menu (refer to **Fig.93**).

```
CALL TIME: (1-255 Sec)
040

              ⇐ to confirm
              ✖ to cancel
```
Fig. 94

5.2 DIVERT TIME

Selecting option 2 from the time settings menu will access the divert time screen (refer to **Fig.95**). On this screen the divert time of the GSM panel can be adjusted. The current setting will be highlighted on the second line of the screen (see **Fig.95**). The default divert time is set to 15 seconds and can be adjusted from 1 second up to 255 seconds. Enter the divert time required then to confirm and save the setting press the ENTER button and the screen will revert back to the time settings menu (refer to **Fig.93**).
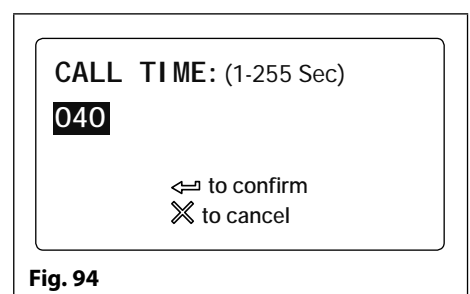
```
DIVERT TIME: (1-255 Sec)
015

              ⇐ to confirm
              ✖ to cancel
```
Fig. 95

5.3 OPEN TIME

Selecting option 3 from the time settings menu will access the open time screen (refer to **Fig.96**). On this screen the door/gate open time of the GSM panel can be adjusted. The current setting will be highlighted on the second line of the screen (see **Fig.96**). The default divert time is set to 5 seconds and can be adjusted from 1 second up to 255 seconds. For latching mode set the relay time to 000 seconds. Enter the door/gate open time required then to confirm and save the setting press the ENTER button and the screen will revert back to the time settings menu (refer to **Fig.93**).
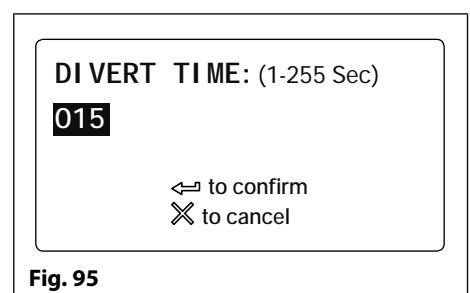
```
OPEN TIME: (1-255 Sec)
005

          ⏎ to confirm
          ✖ to cancel
```
Fig. 96

5.4 AUX TIME

Selecting option 4 from the time settings menu will access the aux time screen (refer to **Fig.97**). On this screen the time that the auxiliary input stays active for can be adjusted. The current setting will be highlighted on the second line of the screen (see **Fig.97**). The default auxiliary time is set to 5 seconds and can be adjusted from 1 second up to 255 seconds. For latching mode set the relay time to 000 seconds. Enter the aux time required then to confirm and save the setting press the ENTER button and the screen will revert back to the time settings menu (refer to **Fig.93**).

```
AUX TIME: (1-255 Sec)
005

          ⏎ to confirm
          ✖ to cancel
```
Fig. 97

5.5 TIMEBANDS

Selecting option 5 from the time settings menu will access the 1st timeband screen (refer to **Fig.98**). On this screen the timebands can be selected and then programmed on the next timeband screen. The GSM intercom has 9 programmable timebands (1 - 9). Timeband "0" is the default timeband and is permanently set from 0000 - 2359 and cannot be adjusted.

To enter a time period for one of the programmable timebands press the relevant button to make the selection. The display will access the 2nd timeband screen and the current time period will be highlighted on the second line of the display (refer to **Fig.99**).

```
TIMEBANDS
0> 0000-2359        1> 0000-2359
2> 0000-2359        3> 0000-2359
4> 0000-2359        5> 0000-2359
6> 0000-2359        7> 0000-2359
8> 0000-2359        9> 0000-2359
SELECT 1-9          ✖ to exit
```
Fig. 98

Enter the time period required (using 24 hour clock notation, e.g. 4:35pm would be entered as 16:35). To confirm and save the setting press the ENTER button and the screen will revert back to the timebands list (refer to **Fig.98**).

It should be noted that the timebands set up on these screens can be assigned to a specific apartment or apartments (refer to **Fig.66** and notes on page 37).

The time settings entered within a timeband is the period of time that an apartment is available for a call. For any period of time outside of the programmed timeband and any call from the GSM intercom to the apartment is disabled, e.g. if timeband 1 is set between 10:00 to 14:35 and has been assigned to apartment 1, a call from the GSM intercom to apartment 1 during this time period will call through ok. Any attempt to call apartment 1 outside of these times then the GSM intercom will not call the apartment. During such an event the GSM intercom's speechboard (if switched ON) will announce "the phone is switched off, please try later". The display will indicate this as shown in **Fig.100**.

```
TIMEBANDS
1>00:00-23:59

          ⏎ to confirm
          ✖ to cancel
```
**Fig. 99**

```
PHONE OFF
```
Fig. 100

5.6 LCD TIME

Selecting option 6 from the time settings menu will access the LCD time screen (refer to **Fig.101**). On this screen the switch time of the GSM's LCD display can be adjusted. The LCD time of the GSM is the time delay of when the GSM display switches between the default welcome screen (see **Fig.102** for Art.4812 and **Fig.103** for Art.4812R on page 61) and a custom welcome screen or logo which has been uploaded to the panel using the GSMSK PC software.

The current setting will be highlighted on the second line of the screen (see **Fig.101**). The default LCD time is set to 000 (0 seconds = LCD switch time disabled) and can be adjusted from 0 seconds up to 255 seconds. Enter the LCD switch time required then to confirm and save the setting press the ENTER button and the screen will revert back to the time settings menu (refer to **Fig.93**).

```
LCD  TIME: (1-255 Sec)
000

           ⇐ to confirm
           ✗ to cancel
```

Fig. 101
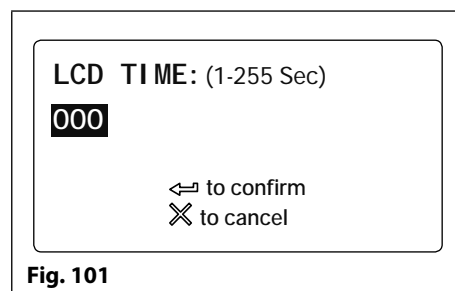
Programming via Text Message

PROGRAMMING THE DIGITAL GSM INTERCOM

Programming the Digital GSM can also be carried out by sending text (SMS) messages.

<u>IMPORTANT NOTE:</u> **When you are required to use " in a text message it is very important to use the correct symbol and not for example ' (or two ' single apostrophes side by side which you will see look the same but will be interpreted differently by the digital GSM panel).**

PROGRAMMING BY TEXT MESSAGE

Programming by text message is a simple way to customise the settings of the digital GSM panel and to add or delete apartment programming remotely. This can include changing apartments telephone numbers, access codes, names or other settings. If a large number of telephone numbers need to be programmed it may be easier with the GSMSK PC software, refer to the manual **GSMSK-66251720-EN-V1-3** (later version).

Simply send texts in the following format shown below to the telephone number of the SIM within the digital GSM panel:

<center>**<4 DIGIT MASTER CODE> <3 DIGIT FUNCTION CODE> <OPTIONAL DATA> <OPTIONAL ?>**</center>

4 DIGIT MASTER CODE	This code prevents unauthorised access to the programmable features of the system. The code must be four digits long but can be any combination using digits 0 – 9. The default master code is 1111 and will be used for all examples in this manual.
3 DIGIT FUNCTION CODE	The 3 digit function code identifies the programmable feature to be changed. The code must be in capital letters. The following table lists the available codes.

DESCRIPTION	CODE	EXAMPLE	SETTINGS	DEFAULT	PAGE
Programming and storing user information in a new memory location	MEM	1111MEMnnn"1stNo.","Div1", "Div2","Div3","AptNo.","Code", DTO,TB,"Name"	* see below	n/a	47 - 48
Store or change an apartment code	STC	1111STCn:"cccccc"	n = <apt no.> cccccc = code	n/a	48
Enable/disable an apartment DTO setting	STO	1111STOn:O	n = <apt no.> O = 0 or 1	n/a	49
Assign a timeband TB to an apartment	STB	1111STBn:B	n = <apt no.> B = 1-9	n/a	49
Store or change an apartment name	STT	1111STTn:"tttttttttttttttt"	n = <apt no.> tttttttttttttttt = Name. Use a > to represent a space	n/a	49 - 50
Store a primary telephone no.	STN	1111STNn:"yyyyyyyyyyyy"	n = <apt no.> yyyyyyyyyyyy = telephone no. 30 digits max.	n/a	50
Store divert 1 telephone no.	STD	1111STDn:"yyyyyyyyyyyy"		n/a	50
Store divert 2 telephone no.	STE	1111STEn:"yyyyyyyyyyyy"		n/a	50
Store divert 3 telephone no.	STF	1111STFn:"yyyyyyyyyyyy"		n/a	50
Set call time	SPT	1111SPTnnn	nnn = 001 - 255	040 *(40s)*	51
Set relay time	RLT	1111RLTnnn	nnn = 001 - 255	005 *(5s)*	51
Set auxiliary output AO time	A1T	1111A1Tnnn	nnn = 001 - 255	005 *(5s)*	51
Set auxiliary output AO mode	A1M	1111A1Mnnn	nnn = 000 - 001	001	51
Keep connection facility	NOD	1111NODnnn	nnn = 001 - 099	000 *(disabled)*	51 - 52
Divert time	DIT	1111DITnnn	nnn = 001 - 099	015 *(15s)*	52
Check GSM signal strength	SIG	1111SIG?	n/a	n/a	52
Check software version	VER	1111VER?	n/a	n/a	52
Forced dial/dial a number	DLE	1111DLE"123"	n/a	n/a	52
Change 4 digit master code	CDE	1111CDE1234	Any 4 digits	1111	53
Change 4 digit admin code	CDA	1111CDA1234	Any 4 digits	2222	53
Change 4 digit trade code	CDT	1111CDT1234	Any 4 digits	0000	53
Trigger the relay	RLY	1111RLY	n/a	n/a	53

Trigger auxiliary output AO	**A1O**	1111A1O	n/a	n/a	53
Store balance check dial string	**SDL**	1111SDL"*#1345#"	n/a	n/a	53
Check credit balance	**BAL**	1111BAL?	n/a	n/a	53 - 54
Store a master telephone no.	**STM**	1111STM"07771234567"	n/a	n/a	54
Latch the relay	**RLA**	1111RLA	n/a	n/a	54
Unlatch the relay	**RUL**	1111RUL	n/a	n/a	54
Latch auxiliary output AO	**A1L**	1111A1L	n/a	n/a	54
Unlatch the auxiliary output AO	**A1U**	1111A1U	n/a	n/a	54
Store a time band	**TBA**	1111TBAn"06002300"	HHMMHHMM	00002359	55
Check/set date & time	**CLK**	1111CLK"yy/mm/dd,hh:mm"?	yy/mm/dd,hh:mm	n/a	55 - 56
Silent dialling mode	**AUE**	1111AUEnnn	nnn = 000 or 001	001	56
Enable dial 0 on answer function	**EDZ**	1111EDZnnn?	nnn = 000 or 001	000	56
Enable the # (hash) function	**ED#**	1111ED#nnn?	nnn = 000 or 001	000	56
Enable proximity reader	**EPR**	1111EPRnnn?	nnn = 000 or 001	000	56
Proximity number of bytes to check	**PBY**	1111PBYnnn?	nnn = 002, 003 or 004	002	57
Store/query a proximity fob/card	**FOB**	1111FOBnnnn"site""user"	nnnn = 0000-1999	n/a	57 - 58
Disable (001), enable individual (002) or enable combined (003) speech board	**SBM**	1111SBMnnn?	nnn = 001, 002 or 003	003	58
Set speech board volume	**SBV**	1111SBVnnn?	nnn = 000 - 099	75	58
Find a telephone number	**FDT**	1111FDT" number or ends in"?	n/a	n/a	58 - 59
Find a fob or card	**FDF**	1111FDF"nnnn"?	n/a	n/a	59
End on Last Divert	**EOD**	1111EODnnn?	nnn = 000 or 001	000	59
Door or Gate	**GAT**	1111GATnnn?	nnn = 000 or 001	001	60
Shutdown and Restart	**RBT**	1111RBT	n/a	n/a	60
Initiate a special command	**PRG**	1111PRG(command)	AT commands	n/a	60
AT command to send at start up	**AT1**	1111AT1"ATxxxxxx"?	Any AT command	n/a	60
AT command to send at start up	**AT2**	1111AT2"ATxxxxxx"?	Any AT command	n/a	60
AT command to send at start up	**AT3**	1111AT3"ATxxxxxx"?	Any AT command	n/a	60

OPTIONAL DATA   The optional data will vary depending on the command used. It may be a telephone number, a time setting or may not be used at all. For more information refer to the following command settings.

OPTIONAL ?   Most of the commands support the ? feature. When this is added to the end of the text message, a confirmation text message will be sent back to the sender indicating the new data has been received and stored.

When sending text messages there may be a delay from when you send the message to when it is received by the digital GSM intercom depending on how congested the network is. If you are at the door panel when sending the message you will here a single beep from the digital GSM intercom to indicate it has received the message.

PROGRAMMING AND STORING USER INFORMATION IN A NEW MEMORY LOCATION (MEM)

The memory location in the digital GSM is simply a position within the GSM's internal memory where the user's apartment information is stored. Up to 500 user's can be stored in the digital GSM (memory locations 000 - 499).

There are 9 parts of user information that is stored in a memory location (also refer to pages 36 - 38):

1. Apartment number **(APT)**;

2. Door/gate access code **(CODE)**;

3. Dial to open number/setting **(DTO/STO)**;

4. Timeband assignment **(TB)**;

5. Username **(NAME)**;

6. Primary telephone number **(TEL1/STN)**;

7. First divert number **(TEL2/Div1/STD)**;

8. Second divert number **(TEL3/Div2/STE)**;

9. Third divert number **(TEL4/Div3/STF)**.

IMPORTANT NOTE: Remember if programming an access code into memory location '000' it will only operate the auxiliary output AO for the programmed AO time (A1T) and not the onboard relay. Please also note that activating the auxiliary output in this way is only possible when the auxiliary output mode A1M has been set to mode 001.

<u>IMPORTANT NOTE:</u> **It is important to remember that before any specific user information can be changed, e.g. apartment number, telephone numbers etc., these details must first be stored in a memory location in the digital GSM. Without this initial information no changes can be made as there would be no user information stored in the GSM's memory to change or edit.**

To store a user's information in a memory location the SMS message must be sent in the following format:

1111MEMnnn"TEL1","TEL2","TEL3","TEL4","APT","CODE",DTO,TB,"NAME"?

where:

- **1111** = 4 digit code;

- **MEM** = 3 digit function code;

- **nnn** = memory location (from 000 - 499);

- **TEL1** = primary telephone number (30 digits maximum);

- **TEL2** = first divert number Div1 (30 digits maximum);

- **TEL3** = second divert number Div2 (30 digits maximum);

- **TEL4** = third divert number Div3 (30 digits maximum);

- **APT** = apartment number (maximum of 6 digits including letters A - F);

- **CODE** = door/gate access code (maximum of 6 digits);

- **DTO** = dial to open enable (enter 1 to enable, leave blank or enter 0 to disable, also refer to page 37);

- **TB** = timeband assignment (from 1 - 9, leave blank or enter 0 for default timeband, also refer to pages 37 and 43);

- **NAME** = username (maximum of 16 characters where the > character can be used to insert a space between characters or words).

Where shown, (in the example above) the quotation marks **"** and commas **,** must be included as part of the line of programming text with no spaces. The **?** at the end of the message is optional if a confirmation text is required.

The following text messages that can be sent to the digital GSM to program/store are as follows:

1111MEMnnn"TEL1","TEL2","TEL3","TEL4","APT","CODE",DTO,TB,"NAME"?	Store the primary telephone number TEL1, first divert TEL2, second divert TEL3, third divert TEL4, apartment number APT, door/gate access code CODE, dial to open enable DTO, timeband assignment TB and username NAME in memory location nnn. A text message will be sent to the sender with the stored information for that memory location. Where nnn = memory location 000 - 499.
1111MEMnnn?	Query the apartment details stored in memory location nnn, where nnn = memory location 000 - 499.

The following example shows how to program a user's details:

Example 1: To program the following user's information: primary telephone number 01912243174, first divert 07791123456, second divert 07897654321, third divert 07999532641, apartment no. 123, door/gate access code 654321, dial to open enabled, timeband 3, username Videx Tech in memory location 150 and receive a confirmation text, the following SMS message can be sent.

1111MEM150"01912243174"," 07791123456"," 07897654321"," 07999532641","123"","654321",1,3,"Videx>Tech"?

Note that quotation marks **"** and commas **,** are used where appropriate and the **>** character is used to insert a space between the words Videx and Tech for the username. The optional **?** is included at the end so a confirmation text is sent back to the sender.

The digital GSM will store the above information in memory location 150 and send the following confirmation text back to the sender:

MEM 150   **APT** = 123   **CODE** = 654321
DTO = 1   **TB** = 3   **NAME** = Videx Tech
TEL = 01912243174   **TEL (DIVERT 1)** = 07791123456
TEL (DIVERT 2) = 07897654321   **TEL (DIVERT 3)** = 07999532641
OK VIDEX GSM

Using the same **MEM** programming command it is also possible to change all or only part of the user's details as well as delete part of a user's details that may no longer be required. To leave a particular user detail or setting unchanged simply don't enter anything in that section of the command but remember to add a comma **,** . To delete part of the user's details simply use two quotation marks **""** next to each other in that section of the **MEM** programming command.

Using the same user details from the previous example the next example shows how to change and delete only part of the user's details in memory location 150.

Example 2: If the user only needs to delete the door/gate access code, delete the third divert number and no longer requires the dial to open feature enabled and receive a confirmation text, the following SMS message can be sent.

1111MEM150,,"",,"",0,,?

Note that two quotation marks **""** are used next to each other to delete a particular detail and commas **,** are used where details remain unchanged. The optional **?** is included at the end so a confirmation text is sent back to the sender.

The digital GSM will amend the above information in memory location 150 and send the following confirmation text back to the sender:

MEM 150   **APT** = 123   **CODE** =
DTO = 0   **TB** = 3   **NAME** = Videx Tech
TEL = 01912243174   **TEL (DIVERT 1)** = 07791123456
TEL (DIVERT 2) = 07897654321   **TEL (DIVERT 3)** =
OK VIDEX GSM

STORE OR CHANGE AN APARTMENT CODE (STC)

Each apartment can have a unique door/gate access code programmed which can be a maximum of up to 6 digits (also refer to the notes door/gate access code on page 37). The following text messages can be used to store/change, delete and query the access code stored for an apartment.

1111STCn:"cccccc"	Store a door/gate access code cccccc for apartment n, where cccccc = code (up to 6 digits max.) and n = apartment number.
1111STCn:"cccccc"?	Store a door/gate access code cccccc for apartment n, where cccccc = code (up to 6 digits max.) and n = apartment number. Also send a confirmation text back to the sender.
1111STCn:""	Delete a door/gate access code cccccc for apartment n, where cccccc = code (up to 6 digits max.) and n = apartment number.
1111STCn:""?	Delete a door/gate access code cccccc for apartment n, where cccccc = code (up to 6 digits max.) and n = apartment number. Also send a confirmation text back to the sender.
1111STCn:?	Query the door/gate access code stored for apartment n, where n = apartment number. Also send a confirmation text back to the sender.

<u>IMPORTANT NOTE:</u> **Remember that the apartment number n can be up to 6 digits in length including letters A - F.**

ENABLE/DISABLE AN APARTMENTS DTO (DIAL TO OPEN) SETTING (STO)

Each apartment can have their programmed telephone numbers set up as dial to open numbers. Once this feature is enabled for an apartment all the numbers stored for that apartment (primary and 3 divert numbers) will be set as dial to open numbers. If a user calls from any of the stored numbers the digital GSM will see that they are dial to open numbers and drop the call but activate the onboard relay to trigger the door/gate.

IMPORTANT NOTE: It is important to switch OFF voicemail and automatic SMS features on the SIM card in the digital GSM when using this feature (see the 'Forced Dial' DLE section for more details). Also note that it will not be possible to use the dial in to speak facility from a number stored to release the door/gate when dialling in (door release takes priority, refer to the priority function table on page 64).

Please also note it is important that the numbers stored, when dialling in to release the door/gate, must have any "caller ID" or "withheld number" function switched OFF on the telephone/mobile that is making the call to the digital GSM. If this feature is not switched OFF the GSM intercom will not recognise the caller's number and simply end the call with no action taken.

By default this feature is disabled (switched OFF). The following text messages can be used to enable or disable the dial to open feature.

1111STOn:O	Set the dial to open feature O for apartment n, where n = apartment number, O = 0 disabled (switched OFF) or O = 1 enabled (switched ON).
1111STOn:O?	Set the dial to open feature O for apartment n, where n = apartment number, O = 0 disabled (switched OFF) or O = 1 enabled (switched ON). Also send a confirmation text back to the sender.
1111STOn:?	Query the dial to open setting for apartment n, where n = apartment number, O = 0 disabled (switched OFF) or O = 1 enabled (switched ON). Also send a confirmation text back to the sender.

ASSIGN A TIMEBAND (TB) TO AN APARTMENT (STB)

Each apartment can have a timeband TB assigned to it (also refer to notes on page 37 and 43 on setting up timebands). By default timeband 0 is already assigned to the apartment (timeband 0 is set to 00:00 - 23:59). There are 9 other programmable timebands (1 - 9) available for an apartment to be assigned to and each apartment can only be set to one timeband at any one time.

The following text messages can be used to assign (set) a timeband to an apartment.

1111STBn:B	Set the timeband B to an apartment n, where n = apartment number, B = timeband 1 - 9.
1111STBn:B?	Set the timeband B to an apartment n, where n = apartment number, B = timeband 1 - 9. Also send a confirmation text back to the sender.
1111STBn:?	Query the timeband set for an apartment, where n = apartment number. Also send a confirmation text back to the sender.

STORE OR CHANGE AN APARTMENT NAME (STT)

An apartment name (usually the user's name) can be programmed into the digital GSM. The following text messages can be used to store, change , delete or query an apartment name (also refer to notes on page 37). The apartment name can be up to a maximum of 16 characters long.

1111STTn:"tttttttttttttttt"	Store an apartment name (username) tttttttttttttttt for apartment n, where n = apartment number, tttttttttttttttt = apartment name (16 characters max.).
1111STTn:"tttttttttttttttt"?	Store an apartment name (username) tttttttttttttttt for apartment n, where n = apartment number, tttttttttttttttt = apartment name (16 characters max.). Also send a confirmation text back to the sender.
1111STTn:""	Delete the apartment name (username) for apartment n, where n = apartment number.
1111STTn:""?	Delete the apartment name (username) for apartment n, where n = apartment number. Also send a confirmation text back to the sender.
1111STTn:?	Query the apartment name (username) stored for apartment number n, where = apartment number. Also send a confirmation text back to the sender.

Programming via Text Message

The > symbol can be used to insert a space between characters or words, for example:

Example: To program the username Mr Smith for apartment 321and receive a confirmation text, the following SMS message can be sent to the digital GSM.

1111STT321:"Mr>Smith"?

Note that quotation marks **"** and a colon **:** are used where appropriate and the **>** character is used to insert a space between the words Mr and Smith for the name. The optional **?** is included at the end so a confirmation text is sent back to the sender.

The digital GSM will store the above username for apartment 321 and send the following confirmation text back to the sender:

APT = 321   **NAME** = Mr Smith
OK VIDEX GSM

STORE OR CHANGE THE APARTMENT TELEPHONE NUMBERS (STN, STD, STE AND STF)

Telephone numbers can be stored for the 500 available apartments. Each apartment can have up to four telephone numbers (if the first is busy or not answered in a certain time it can call a 2nd, 3rd and 4th number). The STN code stores the first number (primary telephone number) when the apartment is called. The STD (Div1), STE (Div2) and STF (Div3) codes stores the diverted telephone numbers if the first is busy or not answered (the digital GSM will divert to the 2nd number then divert to the 3rd number and finally the 4th number). The text messages to store, change or check numbers are as follows, replace STN with STD, STE or STF when storing/changing divert numbers.

1111STNn:"yyyyyyyyyy"	Store the primary telephone number yyyyyyyyyy for apartment number n.
1111STNn:"yyyyyyyyyy"?	Store the telephone number yyyyyyyyyy for apartment number n and send a confirmation text message to confirm storage of new number.
1111STNn:?	Query the telephone number stored for apartment number n. A text message will be sent to the sender with the stored number for that location.
1111STNn:""	Delete the telephone number stored for apartment number n.
1111STNn:""?	Delete the telephone number stored for apartment number n. A text message will be sent to the sender with the delete confirmation for that location.

n is an apartment number which can be made from up to a maximum of 6 digits including letters A - F. The telephone number yyyyyyyyyy can be a maximum of 30 digits. For example: to store the number 01912243174 for apartment 123 and include three divert numbers (if that one is not answered or busy, Div1, Div2 and Div3) of 01912241558, 07771234567 and 01912241559 respectively, the following SMS messages would be sent to the digital GSM:

1111STN123:"01912243174"

1111STD123:"01912241558"

1111STE123:"07771234567"

1111STF123:"01912241559"

To query any of these numbers for apartment 123 the following SMS messages would be sent to the digital GSM:

1111STN123:?

1111STD123:?

1111STE123:?

1111STF123:?

SET CALL TIME (SPT)

The call time is the maximum time in seconds that a call can last before the GSM panel automatically clears the call down. The time can be from 1 second up to 255 seconds and begins from when the call is made from the panel. The default time is 40 seconds. The following messages are used to set/check the maximum call time (also refer to notes on page 42).

1111SPTnnn	Store the call time nnn seconds, where nnn is the time in seconds.
1111SPTnnn?	Store the call time nnn seconds, where nnn is the time in seconds. Also send a confirmation text back to the sender.
1111SPT?	Query the current stored call time. A text message will be sent back to the sender showing the stored time.

SET RELAY TIME (RLT)

The relay time can be set from 001 – 255 seconds or latching. To set the relay time for latched mode set the relay time to 000. In latch mode the relay will stay energised until the command is sent again (also refer to notes on page 43).

1111RLTnnn	Store the relay time nnn = time in seconds (e.g. nnn = 005, time = 5 seconds).
1111RLTnnn?	Store the relay time nnn = time in seconds. Also send a confirmation text back to the sender.
1111RLT?	Query the current stored relay time. A text message will be sent back to the sender showing the stored relay time.

SET AUXILIARY OUTPUT AO TIME (A1T, FOR A1M MODE = 001 OR 002 ONLY)

The auxiliary output AO time can be set from 001 - 255 seconds or latching. To set the AO output time for latched mode set the auxiliary time to 000. In latch mode the AO output will stay triggered until the relevant command is sent again to unlatch the output (e.g. sending text message **1111A1O** to the digital GSM) or during a call by pressing 6 on the telephone to reset the AO output. The latching mode option is only available when the AO output mode, **A1M**, is set to mode 001. Please refer to the **A1M** modes below for more details (also refer to notes on page 43).

1111A1Tnnn	Store the AO time nnn = time in seconds (e.g. nnn = 005, time = 5 seconds).
1111A1Tnnn?	Store the AO time nnn = time in seconds. Also send a confirmation text back to the sender.
1111A1T?	Query the current stored AO time. A text message will be sent back to the sender showing the stored AO time.

SET AUXILIARY OUTPUT AO MODE (A1M, MODES 000 - 002)

The auxiliary output AO has three modes that can be set (also see additional notes on page 39):

Call Activated: nnn = 000

AO output will activate when a call begins and deactivate when a call ends. See example on page 13.

User Activated: nnn = 001 (default mode)

To activate the AO output press 6 on the telephone during a call or sending the text message **1111A1O** to the digital GSM. The auxiliary output can also be activated by triggering the auxiliary input AI. See example on page 13.

Call Activated (Timed): nnn = 002

AO output will activate when a call begins and deactivate when the auxiliary output time (**A1T**) expires. See example on page 14.

1111A1Mnnn	Store the AO mode nnn = 000 - 002 (see modes above).
1111A1Mnnn?	Store the AO mode nnn = 000 - 002 (see modes above). Also send a confirmation text back to the sender.
1111A1M?	Query the current stored AO mode (see modes above). A text message will be sent back to the sender showing the stored AO mode.

KEEP CONNECTION FACILITY (NOD)

In the event the digital GSM intercom panel is not used for long periods of time it could be possible that the network disconnects it. To prevent this from happening it is possible to program a time period (from 001 – 099 days or disabled 000) to wait before the digital GSM intercom makes a short call to refresh the connection to the network. This time period is reset after each call made on the system and will only happen if the full time period elapses without any incoming or outgoing calls.

1111NODnnn	Store the time nnn = time in days (e.g. nnn = 007, time = 7 days).
1111NODnnn?	Store the time nnn = time in days. Also send a confirmation text back to the sender.
1111NOD?	Query the current stored time. A text message will be sent back to the sender showing the stored time.

DIVERT TIME (DIT)

The divert time is the number of seconds to wait for a call to be answered before diverting to the 2nd, 3rd and 4th number. The default time is 15 seconds (the count down begins from when an apartment is called, but is refreshed when the telephone begins to ring) and can be set from 001 – 255 seconds (also see notes on page 42).

1111DITnnn	Store the divert time nnn = time in seconds (e.g. nnn = 015, time = 15 seconds).
1111DITnnn?	Store the divert time nnn = time in seconds. Also send a confirmation text back to the sender.
1111DIT?	Query the current stored divert time. A text message will be sent back to the sender showing the stored divert time.

IMPORTANT NOTE: Once the divert time is set on the digital GSM panel it is set for the same time for all divert numbers for all apartments stored in the digital GSM intercom. Each apartments divert numbers cannot have individual divert times set, e.g. if the divert time is set for 10 seconds then the divert time for apartment 1 will be the same as the divert time for apartment 321 and so on. Apartment 1 will not have a different divert time to apartment 321 it will be the same.

CHECK GSM SIGNAL STRENGTH (SIG)

At any time the signal strength of the digital GSM can be checked (also see notes on understanding the signal strength on page 64). It is advisable that when the digital GSM is first setup and before any other programming is carried out to check the signal strength of the GSM intercom. If the signal strength is too low the digital GSM may not operate properly and therefore the GSM antenna will need to be repositioned to increase the signal strength. Use the following command to check the signal strength.

1111SIG?	Check the signal strength of the digital GSM intercom and send a confirmation text back to the sender.

CHECK SOFTWARE VERSION (VER)

It is possible to check the current version of software on the digital GSM. This may be necessary to see if an update is required for any additional features or updates on the digital GSM which may be included on later versions. Use the following command to check the software version.

1111VER?	Check the software version of the digital GSM intercom and send a confirmation text back to the sender.

FORCED DIAL/DIAL A NUMBER (DLE)

A useful feature of the digital GSM panel is its ability to call a number sent to it in a text message. This feature can be used when setting up the SIM card. For example, disabling the voicemail facility or disabling automatic SMS messages or missed calls. Any number up to 15 digits can be called and the call will last for a maximum of 40 seconds. The example below would switch off voicemail on a Vodafone SIM card. Substitute the Vodafone number for other service providers.

1111DLE"1210"	Dial 1210 for the intercom panel.

For UK customers other useful numbers which can be used with this feature are as follows. For other countires please check the service provider's web sites for other useful codes.

IMPORTANT NOTE: Although the following codes have been confirmed to work with the GSM intercom Videx offers no guarantee that other codes from other network providers will work.

	Vodafone	O²
DISABLE VOICEMAIL	1210	1760
DISABLE TEXT ALERTS	#148#	1760

IMPORTANT NOTE: Disabling voicemail and text alerts is very important as there is no way to retrieve either of these services from the digital GSM panel. Disabling these features will also prevent the intercom panel switching to voicemail or sending a text when dialling in from another phone.

CHANGE THE 4 DIGIT MASTER CODE (CDE)

The four digit master code (by default = 1111) can be any combination of numbers between 0 - 9, but must be 4 digits long. The code allows access to the full programming menu and must be used when sending text messages to the digital GSM. Use the following message to change the four digit master code (also see notes on page 41).

| 1111CDEnnnn | Change the 4 digit master code to nnnn (where nnnn = new 4 digit master code). |

CHANGE THE 4 DIGIT ADMIN CODE (CDA)

The four digit admin code (by default = 0000) can be any combination of numbers between 0 - 9, but must be 4 digits long. The code allows access to the admin menu and must be used when sending text messages to the digital GSM. Use the following message to change the four digit admin code (also see notes on page 42).

| 1111CDAnnnn | Change the 4 digit admin code to nnnn (where nnnn = new 4 digit admin code). |

CHANGE THE 4 DIGIT TRADE CODE (CDT)

The four digit trade code (by default = 2222) can be any combination of numbers between 0 - 9, but must be 4 digits long. The trade code can only be used when a timeclock has been connected to the trade input (TRD terminal) on the digital GSM when a trade code facility is required. Use the following message to change the four digit trade code (also see notes on page 42).

| 1111CDTnnnn | Change the 4 digit trade code to nnnn (where nnnn = new 4 digit trade code). |

TRIGGER THE RELAY (RLY)

There are several ways to trigger the digital GSM relay. The first is to press button 3 on the telephone during a call and the relay will operate for the programmed time. Another way is to send the following text message.

| 1111RLY | Operate the digital GSM relay (for the programmed time). |
| 1111RLY? | Operate the digital GSM relay (for the programmed time) and send a confirmation text back to the sender. |

TRIGGER AUXILIARY OUTPUT AO (A1O)

It is possible to trigger the auxiliary output AO for the programmed output time (**A1T**, also refer to page 43 for setting A1T time). Please note that this method of triggering auxiliary output AO is only possible when the **A1M** mode has been set to mode 001, also refer to page 39 and the examples on pages 13 and 14. Triggering the auxiliary output can be achieved by shorting terminals AI and GND on the digital GSM intercom, pressing button 6 on the telephone during a call or by sending the following text message to the digital GSM panel.

| 1111A1O | Trigger auxiliary output AO (for the programmed time). |
| 1111A1O? | Trigger auxiliary output AO (for the programmed time) and send a confirmation text back to the sender. |

STORE BALANCE CHECK DIAL STRING (SDL)

Several network providers offer the facility to check available balance on their pay as you go tariffs. For example, on Vodafone the string is *#1345# and on O2 the string is *#10#. Other networks may also have this feature. Since the digital GSM intercom will not know the details of the network provider's SIM card which you have inserted it will be necessary to store the correct string in order to use the credit balance check features.

| 1111SDL"*#1345#" | Store the balance check string for a Vodafone pay as you go. |
| 1111SDL"*#10#" | Store the balance check string for an O^2 pay as you go. |

<u>IMPORTANT NOTE:</u> **Videx are only aware of the balance check dial string codes for the network providers mentioned above. Check dial string codes for other networks are currently unavailable at this time. Please also note that this programming function is only applicable for pay as you go SIM cards.**

CHECK CREDIT BALANCE (BAL)

The balance can only be checked if the correct balance check string has previously been stored using the **SDL** code explained above. At any point the user will be able to send the following text message and the digital GSM intercom will reply with the current balance stored on the SIM card.

| 1111BAL? | Check current balance of the SIM in the digital GSM intercom and send a confirmation text back to the sender. |

In addition to this feature the digital GSM also has the facility to monitor the available credit and then text the user to inform them when the credit has fallen below £5.00, €5.00 or $5.00. It will then remind the user with another text after every 5 calls until the credit has either increased or if it runs out.

To use this feature, the following settings must first be made:

A Pay As You Go SIM card from a provider that offers this service (Vodafone, O2) must be used.

The correct balance check string must be stored using the **SDL** code (see store balance check dial string).

A mobile phone number that is to receive the 'balance low' text must be stored in the master telephone number location using the STM code (refer to 'store master telephone number' feature below).

STORE A MASTER TELEPHONE NUMBER (STM)

The master telephone number is the number which will receive automatic balance updates when the balance gets low (if this feature is setup). To store a master telephone number the following programming texts can be sent to the digital GSM intercom.

1111STM"yyyyyyyyyy"	Store the telephone number yyyyyyyyyy.
1111STM"yyyyyyyyyy"?	Store the telephone number yyyyyyyyyy and send a confirmation text back to the sender.
1111STM?	Query the master telephone number stored. A text message will be sent to the sender with the stored master telephone number.
1111STM""	Delete the master telephone number stored.
1111STM""?	Delete the master telephone number stored and send a confirmation text back to the sender.

LATCH THE RELAY (RLA)

It is possible to latch the digital GSM relay closed. This function is particularly useful if the GSM relay is connected to a gate controller and the user wishes to 'hold open' the gate. The following text message can be sent to the digital GSM intercom.

1111RLA	Latch the digital GSM relay to the C/NO position.
1111RLA?	Latch the digital GSM relay to the C/NO position and send a confirmation text back to the sender.

UNLATCH THE RELAY (RUL)

If the digital GSM intercom relay has been latched it is possible to unlatch the relay with the following text message.

1111RUL	Unlatch the digital GSM relay back to the C/NC position.
1111RUL?	Latch the digital GSM relay to the C/NC position and send a confirmation text back to the sender.

<u>IMPORTANT NOTE:</u> **The digital GSM relay can also be unlatched by pressing 3 on the telephone during a call.**

LATCH AUXILIARY OUTPUT AO (A1L)

Auxiliary output AO, like the onboard relay, can be latched. To latch auxiliary output AO the following text message can be sent to the digital GSM intercom.

1111A1L	Latch auxiliary output AO.
1111A1L?	Latch auxiliary output AO and send a confirmation text back to the sender.

UNLATCH AUXILIARY OUTPUT AO (A1U)

Auxiliary output AO can also be unlatched. To unlatch auxiliary output AO the following text message can be sent to the digital GSM intercom.

1111A1U	Unlatch auxiliary output AO.
1111A1U?	Unlatch auxiliary output AO and send a confirmation text back to the sender.

STORE A TIMEBAND (TBA)

<u>IMPORTANT NOTE:</u> **This feature relies on the network providers time zone setting and also if they support NITZ (Network Identity and Time Zone). First check the time/date is correct by sending the SMS message 1111CLK? (also refer to check intercoms time & date feature below). If the time/date returned is incorrect, it maybe that they do not support it. The clock can be set manually but any power cut will result in the time and date being lost unless battery backup is included.**

The timeband feature allows a call to an apartment to be enabled for a specific time period. Remember there are 9 programmable timebands (1 - 9) available (also refer to notes on page 43). By default timeband 0 is set to 00:00 - 23:59 and cannot be re-programmed, any apartment assigned to timeband 0 will enable a call to go through to the apartment. Once a timeband has been programmed it can then be assigned to an apartment (see notes on page 37 and programming notes assign a timeband, **STB**, on page 49).

Remember to always use 24hr clock notation and also ensure the **start time** is earlier than the **stop time**. Use the following text messages to store, query and delete a timeband.

1111TBAn"HHMMHHMM"	Store the time period HHMMHHMM for timeband n (where n = timeband 1 - 9, the first HHMM is the **start time** and the second HHMM is the **stop time**.
1111TBAn"HHMMHHMM"?	As above but also send a confirmation text back to the sender with the stored setting.
1111TBAn?	Query the time period programmed for timeband n (where n = timeband 1 - 9). A text message will be sent to the sender with the stored HHMMHHMM time period for timeband n.
1111TBAn""	Delete the programmed time period for timeband n (where n = timeband 1 - 9).
1111TBAn""?	Delete the programmed time period for timeband n (where n = timeband 1 - 9) and confirm deletion of the timeband.

The following example shows how to program a timeband:

Example: Programming a time period to start from 6:00am until 11:30pm for timeband 1. Store the time using the format HHMMHHMM. The first HHMM is the **start time** (i.e. receive calls from 0600, 6am in the morning) and the second HHMM is the **stop time** (i.e. calls will be received up until 2330, 11:30pm at night, as soon as the clock reaches 2331, 11:31pm calls to the apartment will stop).

<div align="center">

1111TBA1"06002330"?

</div>

Note that quotation marks **"** are used where appropriate and 24hr clock notation is used. The optional **?** is included at the end so a confirmation text is sent back to the sender.

The digital GSM will store the above time period for timeband 1 and send the following confirmation text back to the sender:

> **TB 1** 06002330
> **OK VIDEX GSM**

Any apartment which is then assigned to timeband 1 will only receive calls between the hours of 06:00 in the morning until 23:30 at night, calls after 23:30, i.e. 23:31 onwards will stop.

CHECK/SET DATE & TIME (CLK)

The check date and time feature relies on the network providers time zone setting (also refer to important note above). After a SIM has been placed into the digital GSM intercom and powered up the SIM will attempt to register with the network and automatically synchronise with the network providers time zone setting. The following text messages can be sent to the digital GSM to check and set the current time and date. The date and time format is as follows: yy/mm/dd, hh:mm, where yy = year, mm = month, dd = date and hh = hour, mm = minutes.

1111CLK?	Check current time & date and send a confirmation text back to the sender.
1111CLK"yy/mm/dd,hh:mm"	Set current time & date.
1111CLK"yy/mm/dd,hh:mm"?	Set current time & date and send a confirmation text back to the sender.

Example: Setting the current time & date to 10:05am, 24th April 2017, the following text can be sent to the digital GSM intercom:

<div align="center">

1111CLK"17/04/24,10:05"?

</div>

Note that quotation marks **"** are used where appropriate. The optional **?** is included at the end so a confirmation text is sent back to the sender.

The digital GSM intercom will reply with the following text:

CLK = 17/04/24, 10.05
OK VIDEX GSM

SILENT DIALLING MODE (AUE)

When the digital GSM is calling the telephone number stored there is a choice of either hearing the ringing noise from the intercom panel or just hearing beeps to indicate a call is in progress.

- Ringing heard during calling: nnn = 001
- Beeps heard during calling: nnn = 000

The following text messages can be sent to the digital GSM intercom to enable (000), disable (001) or query the setting of the silent dialling feature.

1111AUEnnn	Set the silent dialling mode nnn (where nnn = 001 or 000).
1111AUEnnn?	Set the silent dialling mode nnn (where nnn = 001 or 000) and send a confirmation text back to the sender.
1111AUE?	Query the current mode stored. A text message will be sent back to the sender confirming which silent dialling mode has been set.

ENABLE THE DIAL '0' ON ANSWER FUNCTION (EDZ)

When enabled this feature allows an incoming call to an apartment to be diverted to the programmed divert telephone number if the '0' button on the telephone has not been pressed after answering the call. This can be useful if the user's number has an answerphone service (or answer machine) and they do not want the call to be answered by this service or if the primary number (mobile no.) is switched off.

The default for this function is disabled (set to 000). The following texts can be used to enable or disable this function.

1111EDZnnn	Set the dial '0' function nnn: 001 or 000 (001 = enable, 000 = disabled).
1111EDZnnn?	Set the dial '0' function nnn: 001 or 000 (001 = enable, 000 = disabled) also send a confirmation text back to the sender.
1111EDZ?	Query the dial '0' mode set.

When this feature is set (enabled = 001) the user answering the call must press '0' on their phone to accept the call otherwise the call will be diverted to the next number.

ENABLE THE '#' (HASH) FUNCTION (ED#)

Once enabled the user must press the **#** button on their phone before pressing any other button (also refer to user command table 1 on page 63) with the exception of when the user needs to enter the 4 digit master code "**1111**".

The user will have up to 3 seconds to press the user command button required (e.g. button **3** to activate the panel's relay), if the user doesn't press the next button within the 3 second window they will have to press the # button again.

The default for this function is disabled (set to 000). The following texts can be used to enable or disable this function.

1111ED#nnn	Set the # function nnn: 001 or 000 (001 = enable, 000 = disabled).
1111ED#nnn?	Set the # function nnn: 001 or 000 (001 = enable, 000 = disabled) also send a confirmation text back to the sender.
1111ED#?	Query the dial '#' mode set.

ENABLE PROXIMITY READER (EPR)

The digital GSM features a built-in proximity fob/card reader. The proximity reader can be enabled or disabled depending on whether this feature is required. By default the setting for this is disabled (proximity reader switched off). The following programming text mnessages are used to enable or disable the proximity reader (also see notes on page 40).

1111EPRnnn	Set proximity reader nnn: 001 or 000 (001 = enabled, 000 = disabled).
1111EPRnnn?	Set proximity reader nnn: 001 or 000 (001 = enabled, 000 = disabled) and send a confirmation text back to the sender.
1111EPR?	Query proximity mode set. A text message will be sent back to the sender confirming if the proximity reader is enabled or disabled.

PROXIMITY NUMBER OF BYTES TO CHECK (PBY, 002, 003 & 004)

This function of the built-in proximity reader will only be applicable if the proximity reader has been enabled (see **EPR** function above). After the proximity reader is enabled the number of bytes that the reader checks is dependant on which type of proximity fob/card is used (also refer to notes on page 40).

Understanding the Fob Format and Card Number

It is important to understand the relationship between the fob format and the card number when setting up the proximity reader to check for the correct number of bytes.

- **Fobs/Cards with 5 digit number (user code):** If a proximity fob/card has no site code but a 5 digit user code (e.g. 955/T or 955/C) the **PBY** format should be set to check for 2 bytes (002).

- **Fobs/Cards with 3 digit site code and 5 digit user code:** If using a fob/card with a 3 digit site code and 5 digit user code (e.g. PBX1E or PBX2) the **PBY** format can be set to check for 2 bytes (002) or 3 bytes (003).

- **Fobs/Cards programmed using the PROXE desktop reader:** If using the PROXE desktop reader the **PBY** format can be set to check for 2 bytes (002), 3 bytes (003) or 4 bytes (004).

By default the setting for this function is set to check for 2 bytes, '002'. The following texts can be used to change this setting.

1111PBYnnn	Set proximity reader to check for number of bytes nnn: 002, 003 or 004 (002 = check for 2 bytes, 003 = check for 3 bytes, 004 = check for 4 bytes).
1111PBYnnn?	as above and send a confirmation text back to the sender.
1111PBY?	Query the number of bytes that the digital GSM has been set to check for.

PBY setting	Description
2 bytes	Will read all fobs/cards types programmed.
3 bytes	Will not read fobs/cards programmed with only 2 bytes (5 digit) information.
4 bytes	Will not read fobs/cards programmed with only 2 bytes (5 digit) or 3 bytes (8 digit) information.

<u>IMPORTANT NOTE:</u> **It is recommended that only one fob/card type is used to allow for easier set up and programming of the digital GSM reader. <u>Mifare cards cannot be used.</u>**

STORE/QUERY A PROXIMITY FOB/CARD (FOB, 0000 - 1999)

Once the built-in proximity reader has been enabled and the number of bytes to check for has been set (refer to the **EPR** and **PBY** setup on the previous page) the proximity fobs/cards can be programmed into the digital GSM intercom.

The digital GSM can store up to 2000 fobs/cards (0000 - 1999). The reader can be programmed with any one of the following fobs:

- **955/T or 955/C** = Videx fobs or cards. These fobs and cards have no site code and have a 5 digit user code, so the **PBY** function must be set to 002 (the default setting, checking for 2 bytes).

- **PBX1E or PBX2** = Portal Plus fobs or cards. These fobs and cards have a 3 digit site code and 5 digit user code, so the **PBY** function can be set to 002 or 003.

The following texts can be used to program fobs or cards.

1111FOBnnnn"site","user"	Store fob/card in location nnnn, where nnnn = the memory location from 0000 - 1999 of where the fob/card is actually stored (see examples below for each type of fob/card). The "site" and "user" code is the number printed on the fob/card.
1111FOBnnnn"site","user"?	As above and send a confirmation text back to the sender with the stored fob/card details.
1111FOBnnnn?	Query the fob/card stored in memory location nnnn and send a confirmation text back to the sender with the stored fob/card details.

The following examples show how to program each fob/card type:

Example 1: Programming a **955/T** or **955/C** with no site code, a 5 digit user code of **12345** and storing it in memory location **0001**, the following text can be sent to the digital GSM:

<div align="center">

1111FOB0001"0","12345"

</div>

Note that quotation marks **"** and commas **,** are used where appropriate. For these fob/card types a '0' must be inserted for the "site" code.

Example 2: Programming a **PBX1E** or **PBX2** with a 3 digit site code of **123**, a 5 digit user code of **45678** and storing it in memory location **0010**, the following text can be sent to the digital GSM:

<div align="center">

1111FOB0010"123","45678"

</div>

Note that quotation marks **"** and commas **,** are used where appropriate.

<u>IMPORTANT NOTE:</u> **Remember when programming a proximity fob/card into memory location '0000' it will only operate the auxiliary output AO for the programmed AO time (A1T) and not the onboard relay. Please also note that activating the auxiliary output in this way is only possible when the auxiliary output mode A1M has been set to mode 001.**

DISABLE OR ENABLE SPEECH BOARD (SBM)

The digital GSM intercom includes call progress speech annunciation which can be either enabled or disabled. There are three options available:

- when set to 001 the speech board is disabled (switched off);
- when set to 002 the speech board is enabled with individual number speech playback;
- when set to 003 the speech board is enabled but with combined number speech playback.

By default this function is enabled with combined speech playback (003). The following text messages can be used to enable or disable this feature (also see notes on page 40).

1111SBMnnn	Disable or enable speech board nnn: 001, 002 or 003 (001 = disabled, 002 = enabled with individual playback or 003 = enabled with combined playback).
1111SBMnnn?	Disable or enable speech board nnn: 001, 002 or 003 (001 = disabled, 002 = enabled with individual playback or 003 = enabled with combined playback). Also send a confirmation text back to the sender.
1111SBM?	Query the speech board status/setting.

SET SPEECH BOARD VOLUME (SBV)

The volume setting of the speech board in the digital GSM can be adjusted. The default volume level is set to 75, but can be set anywhere between 000 (low) up to 099 (high). The following text messages can be used to increase or decrease the volume level and query the current speech board volume setting stored (also see notes on page 40).

1111SBVnnn	Increase or decrease speech board volume nnn, where nnn = 000 (low) - 099 (high).
1111SBVnnn?	Increase or decrease speech board volume nnn, where nnn = 000 (low) - 099 (high), also send a confirmation text back to the sender.
1111SBV?	Query the speech board volume setting.

FIND A TELEPHONE NUMBER (FDT)

The find a telephone number feature allows the user to find the memory location (between 0000 - 0499) of where a particular telephone number (the primary number or any of the 3 divert numbers) is stored in the digital GSM. It can locate the number either from using the full telephone number or a minimum of the last 4 digits of a number (see following examples). The following text messages can be used.

1111FDT"yyyyyyyyyy"?	Find the memory location of where the telephone number yyyyyyyyyy is stored, where yyyyyyyyyy = telephone number (minimum of 4 digits).

Example 1: To find the memory location of where the telephone number **01234567890** is stored using the full number, the following text can be sent to the digital GSM:

<div align="center">

1111FDT"01234567890"?

</div>

Note that quotation marks **"** and commas **,** are used where appropriate. The optional **?** is included at the end so a confirmation text is sent back to the sender. The digital GSM intercom will reply with the following text:

<div align="center">

STORED IN nnnn
OK VIDEX GSM

</div>

where nnnn = the memory location between 0000 - 0499 of where the number is stored.

Example 2: To find the memory location of where the telephone number ending in **4567** is stored using the last 4 digits of the number only, the following text can be sent to the digital GSM:

1111FDT"4567"?

Note that quotation marks **"** and commas **,** are used where appropriate. The optional **?** is included at the end so a confirmation text is sent back to the sender. The digital GSM intercom will reply with the following text:

STORED IN nnnn
OK VIDEX GSM

where nnnn = the memory location between 0000 - 0499 of where the number is stored.

Example 3: If the **FDT** search function is used to locate a telephone number that is not stored the digital GSM will reply with the following text:

NOT FOUND
OK VIDEX GSM

FIND A FOB OR CARD (FDF)

The find a fob or card feature allows the user to search and find the fob/card memory location (between 0000 - 1999) of where a proximity fob or card is stored in the digital GSM intercom. It locates the fob or card using the 5 digit user code printed on the fob (see the following example). The following text message can be used.

1111FDF"nnnnn"?	Find the fob/card memory location for user code nnnnn, where nnnnn = user code (5 digit user code printed on fob/card).

Example: Find fob/card memory location of card no. **12345**, the following text can be sent to the digital GSM intercom:

1111FDF"12345"?

Note that quotation marks **"** are used where appropriate. The optional **?** is included at the end so a confirmation text is sent back to the sender. The digital GSM intercom will reply with the following text:

STORED IN nnnnn
OK
VIDEX GSM

where nnnnn = memory location of where the fob/card is stored.

END ON LAST DIVERT (EOD)

The end on last divert feature allows the digital GSM to ring each programmed divert number as usual and if the divert number is not answered it will then proceed to ring the next programmed divert number, if however there is no divert number stored the digital GSM will simply end the call.

By default this feature is disabled (set to 000), but can be enabled (set to 001). The following programming commands can be used to set/check the end on divert function.

1111EODnn	Set end on last divert to nnn, where nnn = 000 (disabled) or 001 (enabled).
1111EODnn?	Set end on last divert to nnn, where nnn = 000 (disabled) or 001 (enabled). Also send a confirmation text back to the sender.
1111EOD?	Query the end on last divert status stored in the digital GSM module.

DOOR OR GATE (GAT)

This command feature of the digital GSM allows the internal speech board to change the default speech annunciation that is heard from the intercom when the onboard relay is activated. For this feature to be heard the internal speech board must be switched ON (refer to notes on enabling/disabling the speech board, **SBM**, on pages 40 and 58).

By default the mode of this feature is set to '001', whereby the internal speech board will announce **"the gate is open"** when the onboard relay is activated. The alternative mode can be set to '000', whereby the internal speech board will announce **"the door is open"**. To set the required door/gate mode the following commands can be sent to the digital GSM intercom (also see notes on page 41).

1111GATnnn	Set the speech board annunciation to mode nnn: 001 or 000 (001 = "the gate is open", 000 = "the door is open").
1111GATnnn?	Set the speech board annunciation to mode nnn: 001 or 000 (001 = "the gate is open", 000 = "the door is open") also send a confirmation text back to sender.
1111GAT?	Query the speech board annunciation mode set.

SHUTDOWN AND RESTART (RBT)

This command feature allows the digital GSM to be remotely shutdown and then rebooted again. The following command can be sent to the GSM intercom.

1111RBT	Shutdown and restart the digital GSM intercom.

<u>IMPORTANT NOTE:</u> **This feature should not be confused with the 'hard-wired' reset (described on page 21). The RBT function simply powers down the digital GSM panel and then powers it back up again.**

The following commands are reserved for the technical department for interrorgating the digital GSM when testing and applying specific additional features that are not covered in this technical manual. For the application of these commands please contact Videx Technical on tel: **0191 224 3174**. For overseas customers please contact Videx customer support on tel: **(+39) 0734 631 699**.

INITIATE A SPECIAL COMMAND (PRG)

This is an advanced feature of the system which can allow an 'AT' format command to be sent to the OEM GSM module.

1111PRG(command)	Send an 'AT' command to the OEM module.

AT COMMAND TO SEND AT START UP (AT1, AT2 AND AT3)

The AT commands **AT1**, **AT2** and **AT3** are advanced commands of the digital GSM that allows additional features to be incorprated into the module for testing purposes and include additional features for a specific application that is not already covered in this manual. The following commands can be sent to the digital GSM.

|	
1111AT1"ATxxxxxx"?	Include any AT command for AT1.
1111AT2"ATxxxxxx"?	Include any AT command for AT2.
1111AT3"ATxxxxxx"?	Include any AT command for AT3.

System Operation

STANDBY MODE

When the digital GSM intercom is in standby the display will show the standard welcome message, refer to **Fig.102** (Art.4812) and **Fig.103** (Art.4812R). The date and time is shown along the bottom of the display and the signal is indicated at the top right corner of the display.

Enter Number

18/11/16   08: 35

Fig. 102

Enter Number
◄ Or Search ►

18/11/16   08: 35
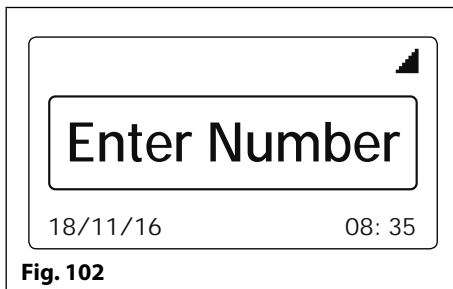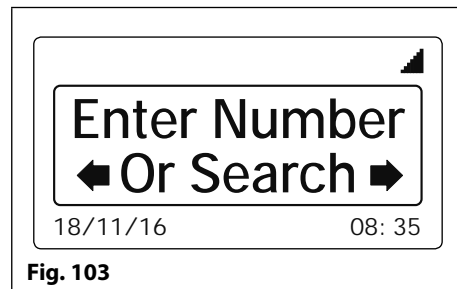
Fig. 103

MAKING A CALL

To make a call, from standby, simply enter the apartment number to be called (e.g. apartment 2) and then press the ENTER button ⏎ , see **Fig.104**. On the panel with the scroll facility use the scroll buttons ⇐ , ⇒ to search for the required apartment number and then press the CALL button 🔔 , see **Fig.105**. The digital GSM will call the apartment (the primary number), see **Fig.106**. If an incorrect apartment number has been entered/selected simply press the CLEAR button ✕ and start again. The panel will cancel the call to the apartment, see **Fig.107.**

2

⏎ to call
✕ to cancel

Fig. 104

← 　　　　　　　✎ABC

APT 1

► 　　 APT 2 　　 ◄

　　　　　　　　APT 3

Press 🔔 to call 　　 →

Fig. 105

Calling APT 2

CALL ● ● ● ➜

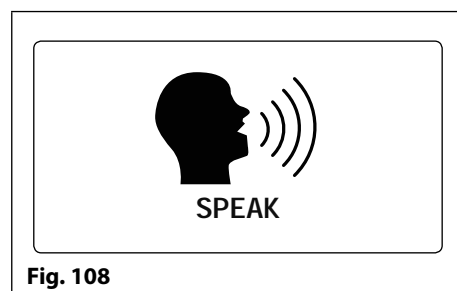**Fig. 106**

CALL CANCELLED
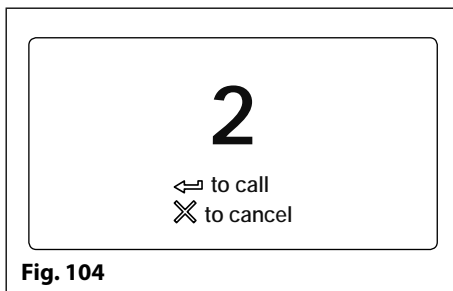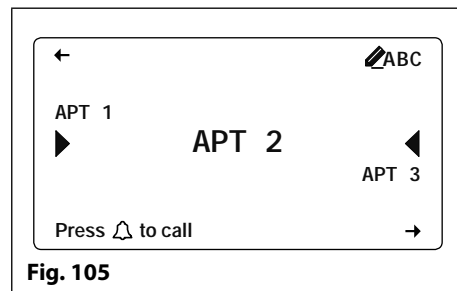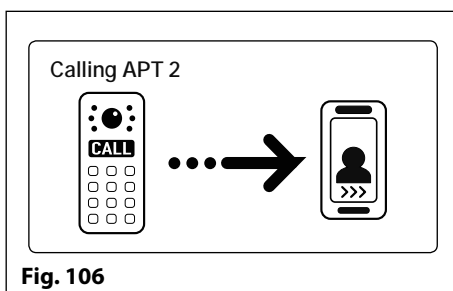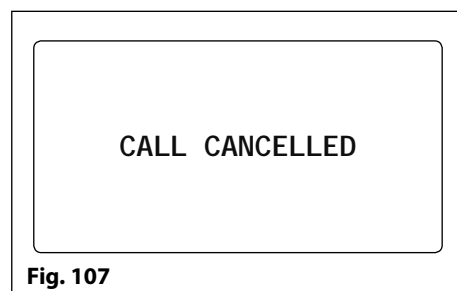
Fig. 107

DIVERTED CALL

First make a call from the digital GSM intercom following the steps above 'making a call'. If any divert numbers are programmed and the primary number is not answered the panel will then dial the divert number(s) after the programmed divert time has elapsed. The panel display will still show that a call is in progress (see **Fig.106**). If the speech board is switched ON then the GSM intercom will announce **"please wait"**, this will indicate that the call has been diverted to the first divert number. This process will repeat again if a 2nd and 3rd divert number has been programmed into the panel.

ANSWERING A CALL AND OPERATING THE DOOR/GATE

After a call has been made and then answered both the caller and user can start a conversation. The GSM intercom display will indicate this when the call has been answered and the line is open, see **Fig.108**.

During a conversation the user can operate the door (see **Fig.109**) or gate (see **Fig.110**) by pressing '3' on their mobile/telephone. The user also has some limited programming and operational functions available to them e.g. adjusting mic and speaker volumes, latching and unlatching the onboard relay and activating the auxiliary output (depending on the operating mode of the auxiliary output), for these user functions please refer to user command table 1 on page 63.

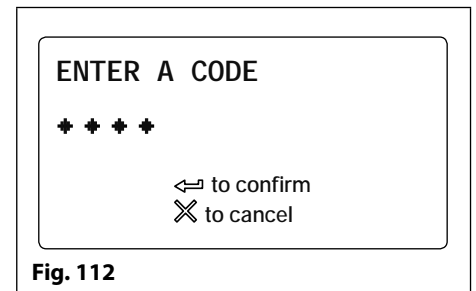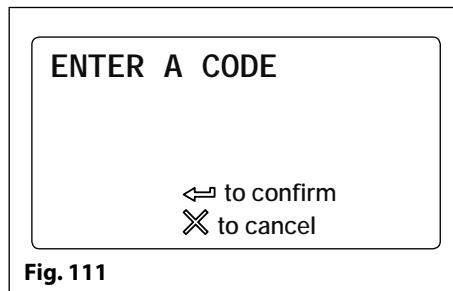SPEAK

Fig. 108

OPEN

Fig. 109

OPEN
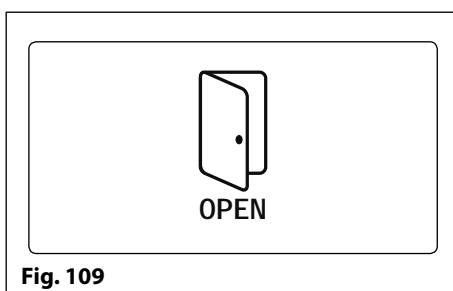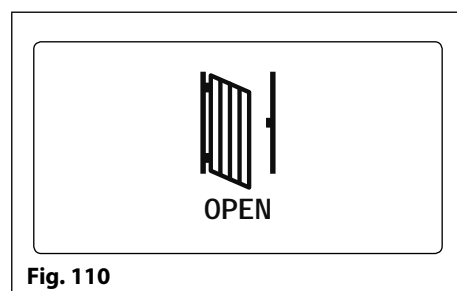
Fig. 110

System Operation

### ENTERING A DOOR/GATE AND TRADE ACCESS CODE

If an access code is programmed into the GSM intercom first press the '0' button, the 'ENTER A CODE' screen will appear on the display, see **Fig.111**. The access code can be entered using the alpha-numeric keypad. If an incorrect digit has been entered press the CLEAR button ⊠ (to delete the most recent digit entered). Re-enter the correct digit again and so on until the correct access code has been entered followed by the ENTER button ⇐ , see **Fig.112**. The GSM intercom will operate the onboard relay to trigger the door/gate, also see **Fig.109** and **Fig.110**.
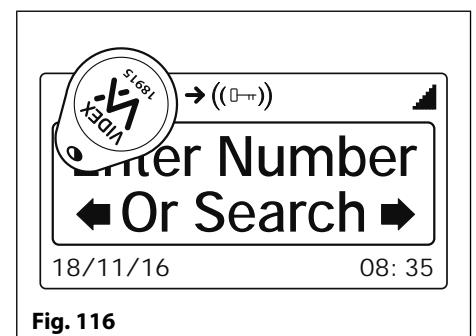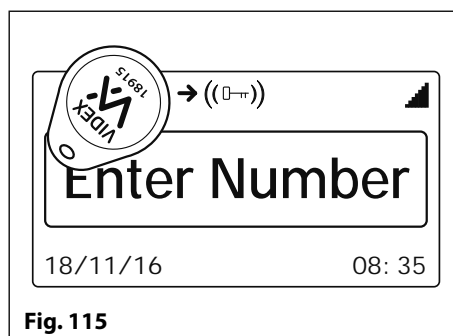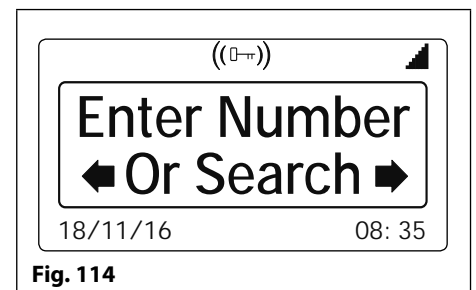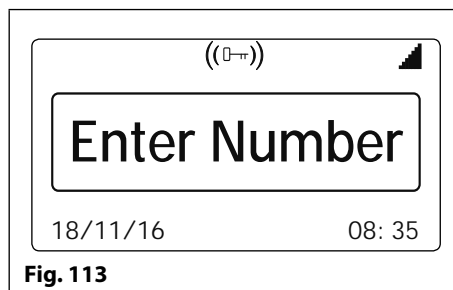
```
┌──────────────────────────┐
│  ENTER  A  CODE          │
│                          │
│                          │
│         ⇐ to confirm     │
│         ✗ to cancel      │
└──────────────────────────┘
Fig. 111
```

```
┌──────────────────────────┐
│  ENTER  A  CODE          │
│  ✦ ✦ ✦ ✦                 │
│                          │
│         ⇐ to confirm     │
│         ✗ to cancel      │
└──────────────────────────┘
Fig. 112
```

Entering a Trade Code

If a trade code is programmed into the panel (this will require the use of the Art. 701T timeclock set in timeclock mode and connected into the TRD terminal) follow the same steps as if entering a door/gate code. It is important to note that the panel's trade facility is **not** related to the timeband feature.

USING THE PROXIMITY READER

If the proximity reader facility is being used this can be confirmed if the key symbol ((▯⌐)) is shown at the top of the LCD graphical display, see **Fig.113** and **Fig.114**. The user can present the programmed fob/card in front of this symbol to operate the door/gate, see **Fig.115** and **Fig.116**.

It should be noted that even if a proximity fob/card is programmed into the digital GSM intercom, if the proximity facility is not enabled then the fob/card will not operate the door/gate.

```
┌──────────────────────────┐
│      ((▯⌐))         ◢     │
│  ┌─────────────────────┐ │
│  │  Enter Number       │ │
│  └─────────────────────┘ │
│  18/11/16        08: 35  │
└──────────────────────────┘
Fig. 113
```

```
┌──────────────────────────┐
│      ((▯⌐))         ◢     │
│   Enter Number           │
│   ◀ Or Search ▶          │
│  18/11/16        08: 35  │
└──────────────────────────┘
Fig. 114
```

```
┌──────────────────────────┐
│  (fob)  → ((▯⌐))    ◢     │
│   Enter Number           │
│  18/11/16        08: 35  │
└──────────────────────────┘
Fig. 115
```

```
┌──────────────────────────┐
│  (fob)  → ((▯⌐))    ◢     │
│  ter Number              │
│  ◀ Or Search ▶           │
│  18/11/16        08: 35  │
└──────────────────────────┘
Fig. 116
```
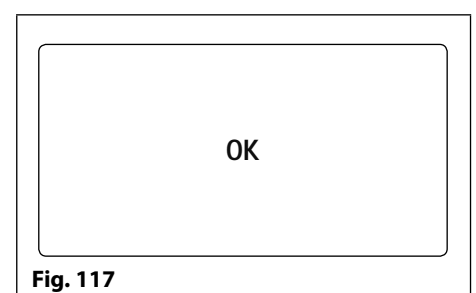
Additional user operations can be carried out via text messaging following user command table 2 on page 63.

RELEASING THE DOOR/GATE BY DIALLING THE DIGITAL GSM INTERCOM (DIAL TO OPEN DTO)

This feature is only possible if the dial to open, **DTO**, feature has been enabled on the digital GSM intercom (refer to notes on page 37). When this feature is enabled the primary number and the 3 divert numbers will be set as dial to open numbers. A call from any of these stored numbers to the digital GSM will result in the panel dropping the call and then opening the door/gate for the programmed time.

ACTIVATING THE AUXILIARY OUTPUT AO USING AN ACCESS CODE OR BY USING A FOB/CARD

Activating the auxiliary output AO using an access code or using a fob/card will only be possible if the auxiliary output mode **A1M** has been set to mode **'001'** and also if the access code has been stored in memory location **'000'** or a fob/card has been stored in memory location **'0000'.** The auxiliary output will then only operate for the programmed auxiliary output time **A1T**. To activate the auxiliary output AO using an access code simply enter the code following the same door/gate code steps above. To activate AO using a fob/card present it to the onboard reader following the proximity reader steps above. The the digital GSM will show 'OK' on the display to confirm the auxiliary output AO has been activated, see **Fig.117**.

```
┌──────────────────────────┐
│                          │
│                          │
│          OK              │
│                          │
│                          │
└──────────────────────────┘
Fig. 117
```

User Commands

USER COMMAND TABLES

The first user table shows the user commands that can be carried out during a call. Successful commands are signalled by two beeps from the telephone, errors are signalled by four beeps.

<u>IMPORTANT NOTE:</u> **When the ED# function has been enabled the user must press the # button on their phone before pressing any of the following user commands (also refer to page 56 for further information).**

Table 1

FUNCTION	1st KEY TO PRESS	2nd KEY TO PRESS
Latch the relay (unlatch by pressing 3)	1	0
Release the door or gate	3	n/a
Activate auxiliary output AO[1]	6	n/a
Adjust door speech volume (digital GSM speaker)	4	0 - 9 (0 = lowest, 9 = highest)
Adjust phone speech volume (digital GSM mic)	7	0 - 9 (0 = lowest, 9 = highest)

[1] - Activating auxiliary output AO in this way is only possible when **A1M** mode has been set to mode 001 (also see notes on pages 13 and 51, 'set auxiliary output AO mode') and will operate for the programmed **A1T** time. If the AO output time has been set to latch simply press 6 on the phone to unlatch the output again.

The second user table shows the SMS text messages that can be sent to the digital GSM intercom while in standby (the examples shown in the table use the default 4 digit master code 1111). Successful text commands are signalled by a single beep from the digital GSM and where the **?** is used the appropriate confirmation text returned. Unsuccessful text commands are signalled by a long beep followed by a short beep from the digital GSM and where the **?** is used the error message text returned, as shown in **Fig.118**.

ERROR VIDEX GSM

Fig. 118

Table 2

FUNCTION	MESSAGE TO SEND
Check the signal strength	1111SIG?
Check the available balance[2]	1111BAL?
Check the software version	1111VER?
Release the door/gate	1111RLY? (? optional, send if confirmation is required)
Latch the relay	1111RLA? (? optional, send if confirmation is required)
Unlatch the relay	1111RUL? (? optional, send if confirmation is required)
Activate auxiliary output AO	1111A1O? (? optional, send if confirmation is required)
Latch auxiliary output AO	1111A1L? (? optional, send if confirmation is required)
Unlatch auxiliary output AO	1111A1U? (? optional, send if confirmation is required)
Check Time band setting	1111TBAn? (where n = timeband 1 - 9)
Check Intercom Time and Date	1111CLK?
Find a Telephone number	1111FDT"yyyyyyyyyy"? (where yyyyyyyyyy = telephone number, minimum of 4 digits, also refer to pages 58 and 59)
Find a Fob or Card location	1111FDF"nnnnn"? (where nnnnn = 5 digit user code printed on fob/card, also refer to page 59)

[2] - The balance can only be checked if the correct balance check string has been stored (also see **SDL** notes on page 53).

Additional User Information

UNDERSTANDING THE SIGNAL STRENGTH (SIG) AND BIT ERROR RATE (BER)

When a request for signal strength message is sent to the digital GSM intercom it will reply with a two part code.

The first part of the code is a signal strength code **SIG** which will be between 0 – 31 or 99. Ideally the signal strength should be as close to 31 as possible for the best possible performance. The lower the number, the weaker the signal. Signal strengths lower than 10 may cause operational problems such as loss of speech quality (and possibly missing DTMF tones) and/or network loss. A signal strength of 99 indicates it could not be detected.

The second part of the code is the bit error rate **BER**. The bit error rate is used in digital telecommunication as a figure of merit for how effectively the receiver (in this case the digital GSM intercom) is able to decode transmitted data (the data in this instance are the various text message commands used to program the digital GSM intercom, described on pages 45 - 60, speech and DTMF signals used by the digital GSM intercom for normal operation). It is the percentage of bits that have errors relative to the total number of bits received in a transmission. Ideally the **BER** code should be as close to 0 as possible, the lower the **BER** the better. High **BER** codes can be caused by noise, interference, distortion or bit synchronisation errors over the transmission of data to the digital GSM intercom and as a result the problems described above (loss of speech quality, possibly missing DTMF tones and/or network loss etc.) can occur.

The example below shows the ideal reply to expect when the signal strength query **1111SIG?** is sent to the digital GSM intercom:

SIGNAL = 31
BER = 0
OK VIDEX GSM

To achieve the best overall performance from the digital GSM intercom a high signal strength **SIG** and low bit error rate **BER** is required. In the event that a low signal strength and high bit error rate is recieved it is recommended that the **Art.432** antenna is repositioned, where permissible, at the highest point to achieve the best signal. Where this is not possible an alternative high gain antenna can be used, in particular Videx recommends using the **ANT-GSM-2dB-5M** or **ANT-GSM-2dB-15M** high gain antennas or another suitable GSM antenna with a standard SMA male connector.

DIALLING INTO THE DIGITAL GSM FROM ANOTHER TELEPHONE

There are three possible outcomes to dialling into the digital GSM intercom depending on the telephone number you are dialling in from and the features setup during programming. The three possible outcomes are shown in the priority function table below and are shown in order of priority. For example, if the number is programmed to automatically activate the relay (**DTO**), this will take priority over the following two options and if the telephone number is stored as a telephone number called from one of the push buttons, this will take priority over the last option.

Priority Function Table

FUNCTION	REQUIREMENT	PRIORITY
Dial in to open the Door (DTO). After dialling the GSM number, the relay will activate and the call will be dropped.	The telephone number of the telephone dialling in must be stored as a primary number or one of the divert numbers: STNn STDn STEn STFn where n = apartment no. (500 max.) The **DTO** feature <u>**must**</u> also be enabled (switched ON), refer to page 37 for **DTO** set up.	**1st**
Dial in to activate a call (live speech, activate relay/ auxiliary AO). After dialling the GSM number, the call will be answered and two beeps will be heard. The speech will then be live.	The telephone number of the telephone dialling in must be stored as a primary number or one of the divert numbers: STNn STDn STEn STFn where n = apartment no. (500 max.) The **DTO** feature <u>**must**</u> also be disabled (switched OFF), refer to page 37 for **DTO** set up.	**2nd**

Dial in to open the speech from a telephone number not stored in the digital GSM. After dialling the GSM number, the call will be answered and two beeps will be heard. You will then be required to enter the 4 digit code to open the speech.	If neither of the two requirements above are met.	3rd

UNDERSTANDING THE BEEPS

Functions and errors are indicated by beeps from the digital GSM panel. The following will help you understand the different beeps heard and what, if anything, needs to be done in response to the beeps.

BEEP	REASON	SOLUTION
Short beeps at 1 second intervals.	Relay or auxiliary output activated.	None, this is normal.
Single short beep while the system is in standby and not being used.	A valid text message has been received and processed.	None, this is normal.
Two short beeps followed by a long beep. During this time the GSM display will indicate that it is attempting to call an apartment, see **Fig.106** on page 61.	Call made to a stored apartment number but no actual telephone number stored.	Program a telephone number for the apartment.
Long beep, followed by a short beep while the system is in standby. During this time the GSM will send an error message to the sender, see **Fig.118** on page 63.	Invalid text message received.	If this has happened when sending one of the programming text messages then check the message for errors. These beeps will also be heard if the 4 digit master code in the text message is incorrect. If you are unsure of the 4 digit code, try resetting it to 1111.
Short beep while the system is in use.	Manually ending a call by pressing the CLEAR button ⊠.	None, this confirms the call has been cancelled. Another call can be placed if required.
Single short beep approx. every 50 seconds after power up. During this time the GSM display will indicate that it is attempting to register with the network, see **Fig.27** and **Fig.28** on page 20.	Not registered with a network provider but still trying. Unable to see the SIM card or unable to see the antenna or Other unknown registering problem.	Leave it a short while to see if it manages to find the network. If the beeps repeat every 50 seconds or so then try the following: check the SIM card is fitted correctly. Try removing the SIM card, cleaning and fitting again. Try moving the antenna to a better location. Try changing the SIM card to another network provider or try changing the antenna.

PROXIMITY READER

BEEP	REASON	SOLUTION
Successive short beeps lasting for the duration of the relay time ("the door is open").	Programmed fob/card presented to the onboard reader.	None, this is normal.
Single long beep ("invalid code").	Fob/card presented to the onboard reader that is **not** programmed.	The fob/card requires programming into the GSM PRO module (ensuring the onboard reader is enabled).
No beeps. The onboard reader is unresponsive.	The onboard reader has not been enabled (regardless of whether fobs have or have not been programmed).	Enable the onboard proximity reader.

User Management

RECORD SHEET

In order to manage the digital GSM intercom effectively it is recommended that an up to date record sheet is kept for all the programming particularly if there is a high volume of telephone numbers and fob/cards stored in the GSM intercom. This will also be useful if any future changes need to be made. The following table format can be used to record the digital GSM's basic information.

Digital GSM intercom telephone No.	
IMEI number	
Master code (default 1111)	
Master telephone No.	

It is recommended that the table format below be used to record the apartment's details from memory location 0 up to 499, which includes the following information: the primary number (TEL) and three divert numbers (DIV1, DIV2 and DIV3), the apartment number, username, access code, if the dial to open feature is enabled and a timeband number.

MEM. Location	TEL	DIV1	DIV2	DIV3	Apt. No.	Username	Access Code	DTO enabled?	Timeband (1 - 9)
0									
⬇	⬇	⬇	⬇	⬇	⬇	⬇	⬇	⬇	⬇
499									

If the onboard proximity reader is being used it is recommended that the table format below be used to record the proximity fob/card details from memory location 0 up to 1999, which includes the following information: the site code, user code and username.

MEM. Location	Site Code	User Code	Username
0			
⬇	⬇	⬇	⬇
1999			

USING THE GSMSK PC SOFTWARE TO MANAGE USER INFORMATION

Because of the high volume of user information that may need to be recorded it is possible to use the GSMSK PC software (version 3.1.0.10 or later) to record and save the apartment information as an excel spreadsheet using the 'Export Calls to Excel' feature. The same PC software can also be used to record and save the proximity information as an excel spreadsheet using the 'Export Prox to Excel' feature.

Further information on how to do this can be found in the following technical manual:

- **GSMSK-66251720-EN-V1-3** (or later version).

Troubleshooting

SYSTEM CHECKS AND TESTING

The following table can be used to help diagnose any potential issues that may occur during installation and the system checks that can be carried out to help resolve them.

SYMPTOM	TEST
Interference on the speech.	Check the signal strength **1111SIG?** (if the signal strength is too low the GSM module increases it's power to compensate, causing interference with the speech circuits). Try relocating the antenna or using a more powerful or directional antenna (e.g. high gain antenna).
	Ensure the antenna cables are not running close to the power supply cables or the microphone wires inside the intercom panel.
	Try a different SIM card from a different network service provider as they may have better coverage in that area.
Nothing is shown on the graphical display and it is not illuminated.	Check the power supply has adequate voltage as described earlier in this manual (refer to pages 9 and 18).
	Try a full reset (refer to page 21)
	The digital GSM module may have a fault.
The digital GSM intercom does not respond to SMS messages.	Check the SIM card has an SMS service centre number stored. This will require putting the SIM card into a mobile phone to check. Contact the SIM card provider if you are not sure.
	Check the number you are sending the message to is correct (the number of the SIM card in the digital GSM intercom panel).
	After sending an SMS message to the digital GSM listen for a single short beep from the intercom panel. This will indicate that the message was received and understood. If a long beep is heard it indicates the message was either not understood or the 4 digit master code was incorrect.
	Try resetting the 4 digit master code to 1111 (refer to page 21).
The digital GSM intercom does not respond to SMS messages, but all other functions appear to operate ok, e.g. DTO feature, adjusting speech volumes, releasing the door/gate when button 3 pressed on the phone etc.	This issue can occur on smartphones where the SMS messaging input method is set to UNICODE. Smartphones generally have 3 input methods: GSM alphabet, Automatic and UNICODE. The UNICODE setting is typically used when emoticons/emojis are used in the message so the digital GSM will not recognise text messages that are set to this mode.
	Check that the SMS messaging input method setting on the smartphone is <u>**not**</u> set up as UNICODE and is set to either GSM alphabet or Automatic. This can ususally be done via the settings icon on the smartphone. If you are unsure of how to do this Videx recommend consulting with the user's manual that came with the smartphone or consulting directly with the manufacturer of the smartphone.
The call keeps dropping out.	Increase the call time **(SPT)** of the digital GSM intercom (refer to the programming flowchart on page 34 to program via the keypad and page 51 to program by SMS message).
	Check the signal strength and if necessary, move or change the antenna or try a different SIM card provider.
Speech echoes and feeds back.	Try adjusting the mic and speaker volume via the keypad selecting the general settings menu on the digital GSM intercom (refer to the programming flowchart page 31).
	Try adjusting the mic and speaker volume using the programmable settings during a call (refer to user command table 1 on page 63).
	Check the microphone is fitted correctly in the intercom panel and that the mic hole is not blocked in any way.
ERROR message returned in SMS when programming or no SMS returned at all even though a ? was included at the end of the message sent.	Check over the message sent again and compare it with the examples in this manual. Common errors include: 1. Using two apostrophe marks side by side instead of ". Note that these look the same in the message. An easy way to see if this is the problem is to move the cursor along in the message and if the cursor can get between the two " then it is not the correct character used. 2. Lower case letters instead of upper case. For example using **stn** when **STN** should be used.

Unable to open the gate/door from the telephone during a call (DTMF tones not being recognised) continued.	If the DTMF tone to release the gate/door (or other DTMF tones shown in the user command table 1 on page 63) does not work then check to see if the **ED#** funtion has been enabled:
	1. Send the following SMS command **1111ED#?** to the digital GSM and wait for a reply confirming the status of this function.
	2. **Note:** If the **1111EDZ** function (also see notes on page 56) is set to 001 (enabled) then when answering the call it will be necessary to first press 0 to accept the call before 3 can be used to operate the gate/door.
	Further notes on how to effectively use this function and on the setup of this function can be found on page 56.
	If the DTMF tones are not working reliably then try the following adjustments:
	1. Send the following SMS command **1111AT1"AT#DTMFCFG=8,2500,1500"?** to the digital GSM and wait for a reply.
	2. After receiving the reply send the SMS command **1111RBT** then wait for the digital GSM to reboot.
	3. After the GSM intercom has rebooted test the door opening feature from the telephone during a call.
	If the first solution still does not resolve the issue then try the following:
	1. Send the following SMS command **1111AT1"AT#DTMFCFG=7,2300,1300"?** to the digital GSM and wait for a reply.
	2. After receiving the reply send the SMS command **1111RBT** then wait for the digital GSM to reboot.
	3. After the GSM intercom has rebooted test the door opening feature from the telephone during a call.
	If none of the solutions above resolve the problem then please contact Videx technical on tel: **0191 224 3174** for further assistance. For overseas customers contact Videx customer support on tel: **(+39) 0734 631 699** for further assistance.

General Information

SOFTWARE REVISION

DATE	SOFTWARE VERSION	REVISION
02/01/17	DG4.0.0 (alpha) / DG3.0.0 (scroll)	Launch of the digital GSM (4812, 4812R).
15/05/17	DG4.0.1 (alpha) / DG3.0.2 (scroll)	Update **AT** command to include DTMF adjustment feature.
14/08/17	DG4.0.5/2G (alpha) / DG3.0.4/2G (scroll) DG4.1.5/3G (alpha) / DG3.1.4/3G (scroll)	Update **AO** trigger to include activation from an access code and proximity fob/card when stored in memory location '000' for code and memory location '0000' for proximity fob/card.
18/09/17	DG4.0.6/2G (alpha) / DG3.0.5/2G (scroll) DG4.1.6/3G (alpha) / DG3.1.5/3G (scroll)	Update general settings menu to include additional languages. Update to also include end on last divert feature (**EOD**).

FURTHER READING

Additional programming information using the GSMSK PC software can be found in the following technical manual:

- **GSMSK-66251720-EN-V1-3** (or later version)

Additional information regarding connection to mains supply voltage can be found in the following regulations for UK based customers:

- **I.E.E. Wiring Regulations BS7671**

For overseas customers please consult the relevant standards of your country.

Notes

Notes

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