REMOTE ALARM SYSTEM



8D5897 _ **2G** Lift Dialer
8D5897B _ **2G** Lift Dialer Box

User's Guide
rev. 1.0 11/2020

ENGLISH ITALIANO

digicom
B810 GROUP

INDEX

PREFACE II
BACKUP BATTERY II
SIMPLIFIED UE DECLARATION OF CONFORMITY II
ASSISTANCE AND CONTACTS II
SAFETY WARNINGS III

1. INTRODUCTION 1.1
1.1. TECHNICAL FEATURES 1.1
1.2. SYSTEM DESCRIPTION AND PACKAGE CONTENT 1.2

2. INSTALLATION 2.1
2.1. SUGGESTIONS FOR SECURITY 2.1
2.2. INSTALLATION ARCHITECTURES 2.1
2.3. TESTS DURING THE INSTALLATION 2.6
2.4. BEFORE POWERING LIFT DIALER ON 2.7
2.5. VOICE BOX CONNECTION 2.8
2.6. 2G LIFT DIALER PINOUT 2.9
2.7. LIFT DIALER TOPOGRAPHY 2.9
2.8. VOICE BOX - CAR PINOUT (CODE 8D5804) 2.10
2.9. VOICE BOX - CAR TOPOGRAPHY (CODE 8D5804) 2.10
2.10. VOICE BOX - TOP / PIT PINOUT (CODE 8D5780) 2.11
2.11. VOICE BOX - TOP / PIT TOPOGRAPHY (CODE 8D5780) 2.11
2.12. VOICE BOX BUTTON PINOUT (CODE 8D5810) 2.12
2.13. VOICE BOX BUTTON TOPOGRAPHY (CODE 8D5810) 2.12
2.14. LIFT DIALER: LED INDICATORS 2.13
2.15. VOICE BOX: LED INDICATORS 2.13
2.16. BACKUP BATTERY 2.14
2.17. RESET BUTTON 2.14

3. CONFIGURATION 3.1
3.1. CONFIGURATION VIA LOCAL PHONE 3.1
3.2. CONFIGURATION VIA REMOTE PHONE 3.1
3.3. CONFIGURATION VIA SMS 3.2
3.4. CONFIGURATION TABLE 3.2
3.5. CONFIGURATION EXAMPLES 3.8
3.6. MULTI-COMMANDS VIA SINGLE SMS 3.8
3.7. RECORDING THE ALARM MESSAGE (COMMAND 40#) 3.8
3.8. PLAYING THE ALARM MESSAGE (COMMAND 41#) 3.8
3.9. MANAGING THE ALARM CALL 3.9
3.10. RESETTING THE ALARM (COMMAND 19) 3.9
3.11. RESTORING THE FACTORY CONFIGURATION (COMMAND *99#) 3.9
3.12. RESTORING THE COMPLETE FACTORY CONFIGURATION (COMMAND *9900#) 3.9
3.13. CHANGING THE LANGUAGE (COMMAND 45*XX#) 3.10
3.14. ADJUSTING SPEAKER VOLUME AND MICROPHONE GAIN 3.10
3.15. ACTIVATION OF SPEAKERPHONE IN CAR IN INCOMING CALLS 3.10
3.16. ACTIVATING THE INTERCOM FUNCTION (COMMAND *1) 3.11
3.17. RELAY 1 AND 2: MANAGEMENT FOR GATE OPENING (COMMANDS 81# AND 82#) 3.11
3.18. RELAY1: BELL MANAGEMENT (COMMAND 84T#) 3.12
3.19. RELAYS 1: ACTIVATION MANAGED BY SENSOR CONNECTED TO THE VOICE BOX 3.12
3.20. RELAY 2: GSM NETWORK ABSENT (COMMAND 861#) 3.12
3.21. RELAY 1 AND RELAY 2: SENT ALARM AND RECEIVED ALARM (COMMAND 851#) 3.13
3.22. RELAY 2: ITALIAN LAW 13 MANAGEMENT (COMMAND 831#) 3.13
3.23. ALARM FILTERING 3.13

All rights reserved; no part of this publication may be reproduced, stored in a retrieval system, or trasmitted in any form or by any means, electronic, otherwise, without the prior written permission of Digicom S.r.l. The contents of this booklet may be modified without notice. Every possible care has been taken in testing and putting together all the documentation contained in this booklet, however Digicom can not take any responsability brought by the use of this booklet.

PREFACE

In order to guarantee your safety and a correct functioning, be sure to follow these safety warnings. The whole set (with cables included) must be installed in a place lacking of or distant from:

- Dust, humidity, high temperatures and direct exposure to sunlight.
- Heat irradiating objects, which may damage your device or cause any other problem.
- Objects producing a high electromagnetic field (Hi-Fi speakers, etc.).
- Corrosive liquids or chemical substances.

ENVIRONMENTAL CONDITIONS
Environment temperature: from -10 °C to +55 °C Relative humidity: from 20 to 80 % n.c.

Any sudden change in temperature and humidity must be avoided.
Use a soft dry cloth and avoid any solvents or abrasive materials.
Caution against shocks or vibrations.

BACKUP BATTERY

WARNING: this device can be equipped with a Li-ion Polymer backup battery.
This battery may get burnt, explode or cause serious burnings. DO NOT disassemble, weld, burn or throw the battery into water. Keep out of children. Replace only with a same model battery and reserve the operation only to qualified staff. The use of a different battery may cause fire hazard or explosions. Italian laws consider batteries as dangerous urban waste that must be disposed according to the law provisions in force (Italian DPR 915/82 and local provisions).
The backup battery is excluded from warranty.

SIMPLIFIED UE DECLARATION OF CONFORMITY

The manufacturer, Digicom S.r.l., declares that these radio equipments **2G Lift Dialer & 2G Lift Dialer Box** , are compliant with Directive 2014/53/UE.
The complete text of UE Declaration of Conformity is available at following internet address: www.digicom.it

ASSISTANCE AND CONTACTS

If, after carefully reading the procedures described, you are unable to resolve a possible problem, please contact Digicom assistance**.** **E-mail: support@digicom.it**

SAFETY WARNINGS

Read these instructions and norms carefully before powering the device. Violation of such norms may be illegal and cause hazard situations.
For any of the described situations please refer to the specific instructions and norms.
The device is a low power radio transmitter and receiver. When it is ON, it sends and receives radio frequency (RF) signals.
The device produces magnetic fields. Do not place it next to magnetic supports such as floppy disks, tapes, etc.
Operating your device close to other electrical and electronic equipment - such as a television, phone, radio or a personal computer - may cause interferences.

INTERFERENCES
The device, like all other wireless devices, is subject to interferences that may reduce its performances.

ROAD SAFETY
Do not use your device while driving. In case of use on cars, you must check that the electronic equipment is shielded against RF signals. Do not place the device in the air bag deployment area.

AIRCRAFT SAFETY
Switch off your device when on board aircrafts by disconnecting the power supply and deactivating the internal backup battery. Using GSM devices on aircrafts is illegal.

HOSPITAL SAFETY
Do not use the device near health equipment, especially pacemakers and hearing aids, in order to avoid potential interferences. Take care when utilizing the device inside hospitals and medical centres, which make use of equipment that could be sensitive to external RF signals. Switch it off when use is expressly forbidden.

EXPLOSIVE MATERIALS
Do not use the device in refuelling points, near fuel or chemicals. Do not use the device where blasting is in progress. Observe restrictions and follow any specific regulation or instruction.

INSTRUCTIONS FOR USE
Do not use this device in direct contact with the human body and keep a minimum distance of 20 cm from it and from the antenna. Use approved accessories only. Consult the user's manual of eventual other equipment connected to this device. Do not connect incompatible products.

INFORMATION TO USERS
according to Art. 26 "Information to Users" - **Legislative Decree 14 March 2014, n. 49 "Actuation of the Directive 2012/19/UE on the waste of electrical and electronic devices (RAEE).**"



The symbol of a crossed waste container marked on the apparatus or on its package indicates that at the end of its useful life the product must be collected separately from other waste materials.
The user must therefore take the apparatus which has reached the end of its useful life to appropriate separate collection centres for electronic and electro-technical waste materials, or deliver it back to the reseller when purchasing a new apparatus of an equivalent type for a domestic unit, giving one piece in for one piece out, according to Art. 11, paragraph 3 of the above mentioned Legislative Decree.
Furthermore, as per Art.11, paragraph 3 of the above mentioned Legislative Decree it is possible, in the sale point, the free insertion of recyclable materials into appropriate receptacle, without any purchasing obligation for the very small size RAEE, coming from domestic units.
Suitable separate waste collection for then sending the cast-off apparatus for recycling, treatment and environmentally friendly disposal, contributes towards preventing any possible negative effects on the environment and on health and encourages recycling of the materials the apparatus is made up of.
Unauthorised disposal of the product by the user will lead to payment of the administrative sanctions in force in the country where it is put on the market.

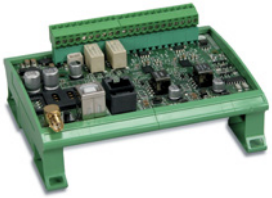
1. INTRODUCTION

Thanks for purchasing a Digicom product!

2G Lift Dialer and **Voice Box** constitute a **bidirectional Emergency phone for lifts system,** compliant to **EN 81-28, EN 81-20, EN 81-70** regulations.
The Emergency phone allows the users blocked in a lift cabin to **send an alarm via GSM** to a Service Center or to the authorized Technical people.
In the lift cabin the emergency call is activated by pressing the alarm button connected to the VoiceBox terminal board.



The people in the lift cabin will be reassured with a comfort message and a yellow bright light will turn on to indicate that the alarm has been sent. At the same time the Emergency phone calls the Service Center or the technical people (these numbers must be set by the lift manager installer).
When the Emergency phone establishes the voice communication with the Service Center, the people in the cabin will see that a green light turns on indicating that the alarm has been received and they will be able to have a speakerphone conversation with the technical people in order to receive assistance.



1.1. TECHNICAL FEATURES

- Module GSM: 2G/GSM
  - GPRS Quad-Band 850/900/1800/1900MHz
- Power
  - GSM/GPRS Power Class 4 (33 dBm) for bands GSM/E-GSM
    Power Class 1 (30 dBm) for bands DCS/PCS
  - EDGE Power Class E2 (27 dBm) for bands GSM/E-GSM
    Power Class E2 (26 dBm) for bands DCS/PCS
- Bluetooth Low Energy (BLE) radio module
  - Working frequencies: from 2.402 to 2.480 GHz
  - Maximum transmission power: +4 dBm
- Voice Interface: FXS on Screw Terminal Board
- Voice Call
- Data Call
- RS232 Serial Interface On RJ45 Female Connector For DATA connections
- GPRS class 10
- GSM Speed Up to9600 bps
- Built-in TCP/IP Stack
- Led for Indication of device status
- Kit for DIN Mounting (for code 8D5896 only)
- Metal Case for wall mounting (for code 8D5896B only)
- SMA connector for antenna
- USB port for Firmware Upgrade
- Reset Button (Restart – Alarm End)
- 2 Relays (max 60 Vcc/Vac – 2A)
- Power: 12-24Vcc – 1A min
- Rechargeable backup Battery (for code 8D5896B only)
- CE Marks and rohs compliants
- EN 81-28 , EN 81-20 , EN 81-70

1.2. SYSTEM DESCRIPTION AND PACKAGE CONTENT

Digicom Emergency phone for lift system is composed by two main elements:

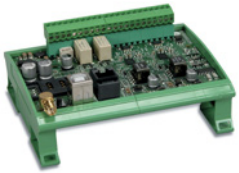
2G Lift Dialer	Remote alarm dialer with native integrated 2G/GSM module.
Voice Box	Speakerphone unit with integrated microphone and speaker.

Voice Box speakerphone unit is connected to 2G Lift Dialer Emergency phone with 2 wires only.
For a good audio quality we suggest the use of a twisted pair for the connection.
Otherwise it is possible:

- to use two unused wires already present in the cabin cable;
- to use the two wires already present that are used for the bell, after having modified the system as described in paragraph RELAYS1: BELL MANAGEMENT.

In these cases the audio quality could not be so good.

2G Lift Dialer remote alarm dialer is available in the following versions:



Emergency phone on DIN guide support (code 8D5897)

Suggested for installations inside the frame controller.

It is supplied with:

- 2G antenna with magnetic base and 3 meters cable.

Accessories that can be purchased separately:

- external power supply 230Vac / 12Vdc – 1000mA (code 8D6065);
- rechargeable battery Li-Pol 3,7Vdc – 4000mAh (code 724000163401).



Emergency phone integrated in metal box (code 8D5897B)

Suggested for installations in the machine room.

It is supplied with:

- 2G antenna with magnetic base and 3 meters cable;
- external power supply 230Vac / 12Vdc – 1000mA;
- rechargeable internal battery Li-Pol 3,7Vdc – 4000 mAh;
- screws for wall mounting.

Voice Box speakerphone unit, only 19mm thick and powered directly by 2G Lift Dialer Emergency phone, is available in the following versions:

Voice Box Car (cod. 8D5804)

For the installation in car behind the car operating panel.



Equipped with:

- integrated microphone and speaker;
- integrated light signals;
- pin on terminal board to connect the N.O. or N.C. buttons accessible in the cabin;
- pin on terminal board to connect the N.O. or N.C. buttons accessible by technical people on the Top of the cabin and in Pit;
- pin on terminal board to connect the external light signals of alarm sent and alarm received.

Voice Box Top/Pit (code 8D5780 & 8D5780PW)

For the installation on the Top of the cabin and in Pit with microphone and speaker.



Equipped with:

- integrated microphone and speaker;
- integrated alarm button;
- reset alarm button;
- integrated light signals.

Voice Box Button (code 8D5810)

For the installation on the Top of the cabin and in Pit without microphone and speaker.



Equipped with:

- alarm button only.

This model must be connected to VoiceBox Car and it won't be connected to 2G Lift Dialer Emergency phone.

2. INSTALLATION

Here below the procedure for the installation and configuration of 2G Lift Dialer and Voice Box together.
This user's manual can be used for the following models of 2G Lift Dialer:

- (code **8D5897**) Emergency phone on DIN rail support: **2G Lift Dialer**
- (code **8D5897B**) Emergency phone integrated in metal box: **2G Lift Dialer Box**

The user's manual also refers to the following models:

- (code **8D5780**) Speakerphone unit: **Voice Box Top/Pit or Under Car**
- (code **8D5804**) Speakerphone unit : **Voice Box Car**
- (code **8D5810**) Button: **Voice Box Button**

2.1. SUGGESTIONS FOR SECURITY

Before installing Digicom Emergency phone, please read this user's manual.
Pay attention to your security during the installation of Emergency phone for Lifts system.
We suggest to operate in an open lift shaft with proper equipment like safety harness.
We also suggest to disconnect power supply before operating near high voltage like for example in an lift motor room.

2.2. INSTALLATION ARCHITECTURES

As previously described, **speakerphone Voice Box is connected to 2G Lift Dialer Emergency phone with 2 wires only.**
For a good audio quality we suggest the use of a twisted pair for the connection.

Otherwise it is possible:

- to use two unused wires already present in the cabin cable;
- to use the two wires already present that are used for the bell, after having modified the system as described in paragraph RELAY1: BELL MANAGEMENT.

In these cases the audio quality could not be so good.

The following installation architectures suggested by Digicom can be used both for new systems and for modernizations independently by the Digicom Emergency phone card used and by its allocation, the possible installations can be:

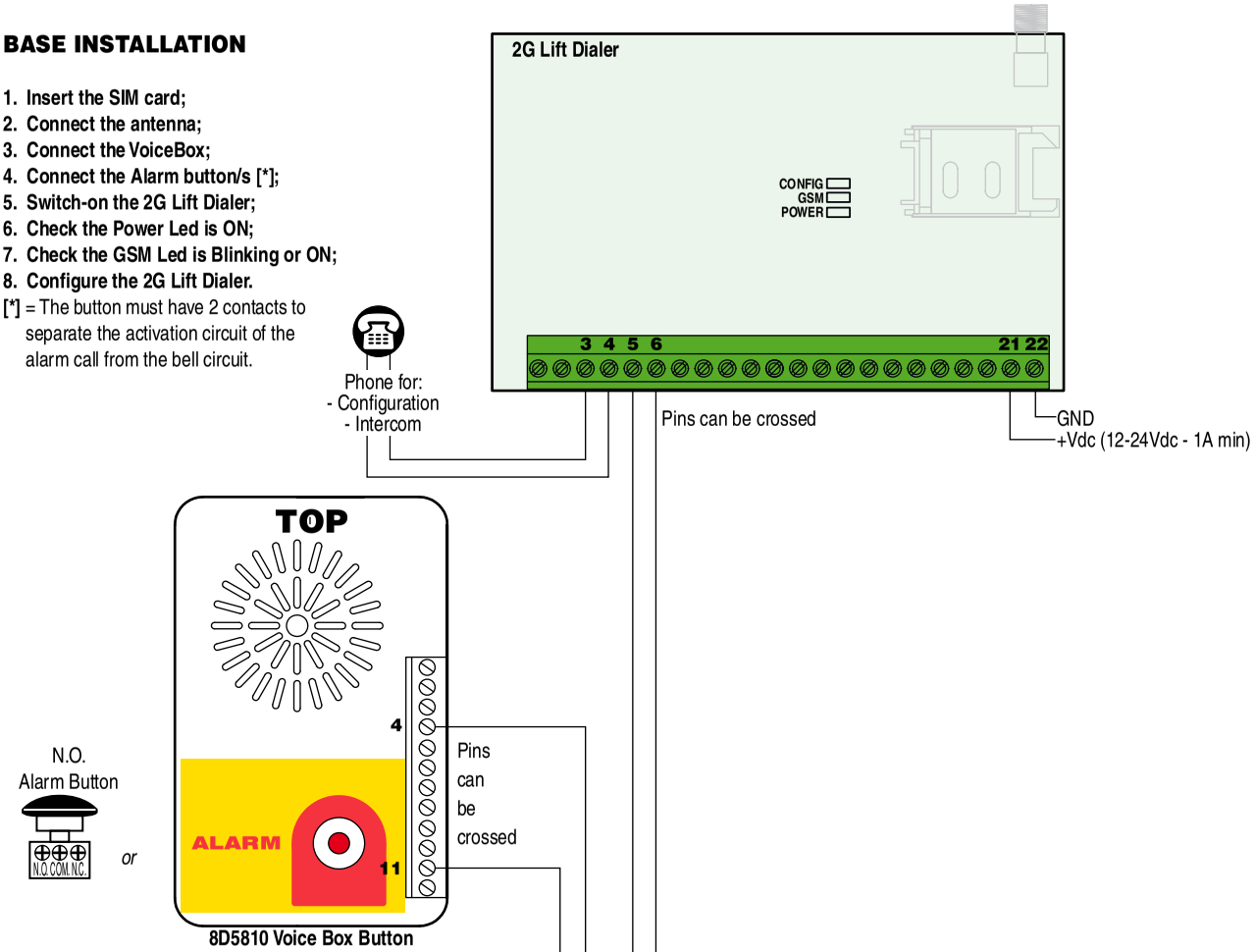
- **BASE INSTALLATION** (see installation scheme in the next pages)
  Connection of a Voice Box in car to 2G Lift Dialer, placed directly behind the car operating panel. Then 3 external buttons will be connected to Voice Box Car:
  - Car = **1 Voice Box Car** placed directly behind the car operating panel with the external button.
  - Top / Pit = 2 external button can be placed on the Top and/or Pit. For the connection of Top and/or Pit buttons it is possible to use the model **Voice Box Button.**
- **COMPLETE TRIPHONY INSTALLATION** (see installation scheme in the next pages)
  This architecture connects a maximum of 3 speakerphone units to 1 2G Lift Dialer Emergency phone:
  - Car = **1 Voice Box Car** placed directly behind the car operating panel with the external button.
  - Top / Pit = **2 Voice Box Top / Pit**.

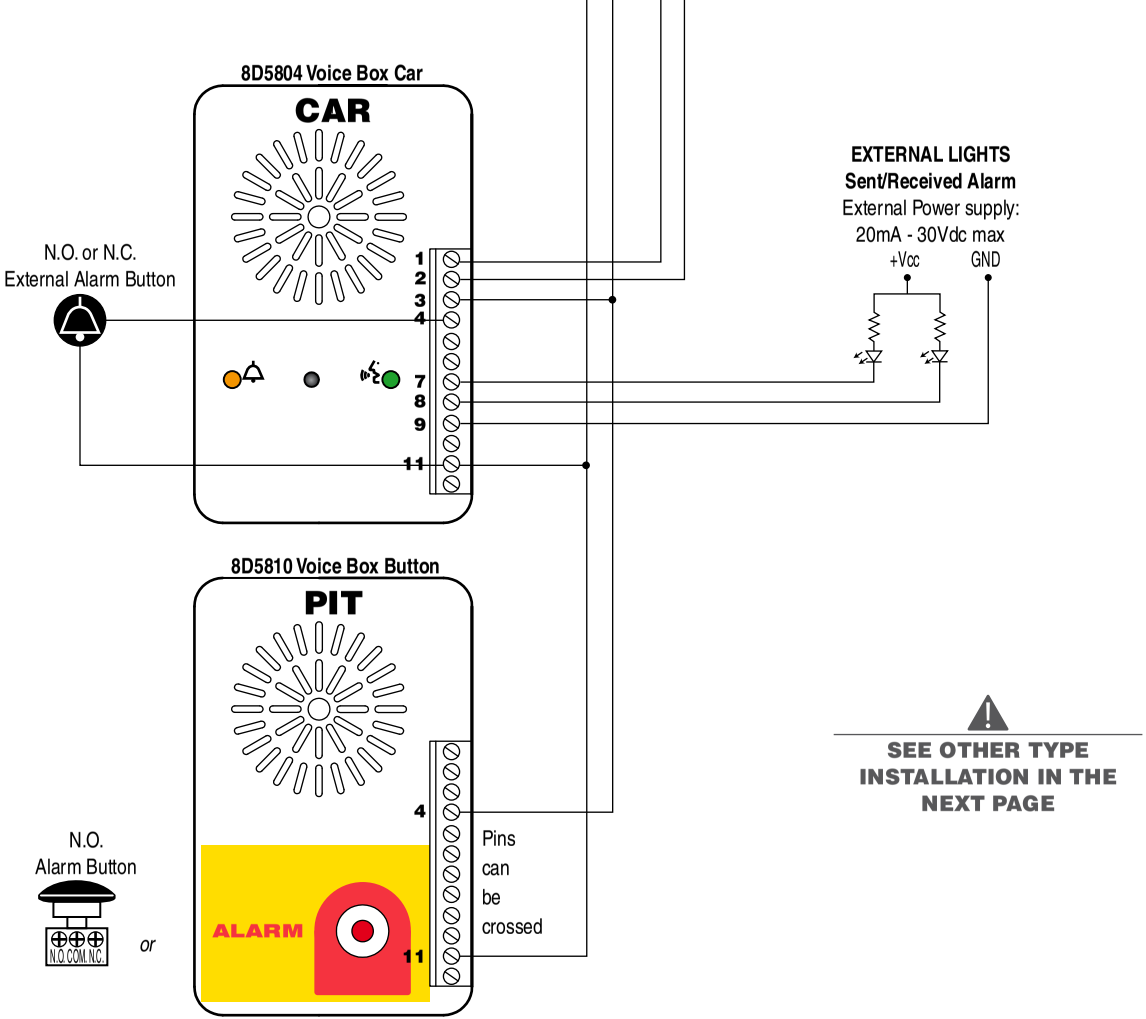
Furthermore in all architectures it will be possible to connect a common phone to the 2G Lift Dialer for the intercom function between the frame controller and the lift cabin. The same phone can be also used for the local configuration and for the recording of the eventual alarm message.

BASE INSTALLATION

1. **Insert the SIM card;**
2. **Connect the antenna;**
3. **Connect the VoiceBox;**
4. **Connect the Alarm button/s [*];**
5. **Switch-on the 2G Lift Dialer;**
6. **Check the Power Led is ON;**
7. **Check the GSM Led is Blinking or ON;**
8. **Configure the 2G Lift Dialer.**

[*] = The button must have 2 contacts to separate the activation circuit of the alarm call from the bell circuit.



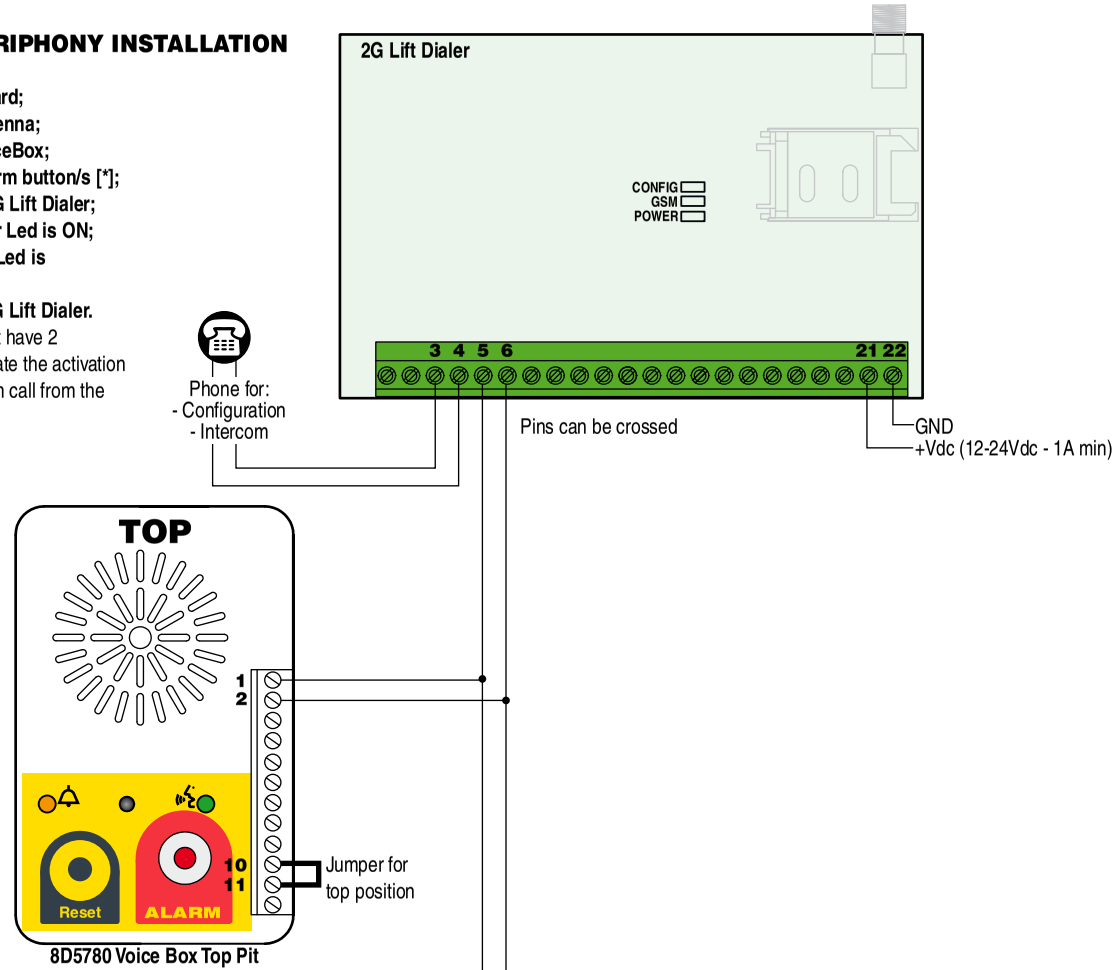


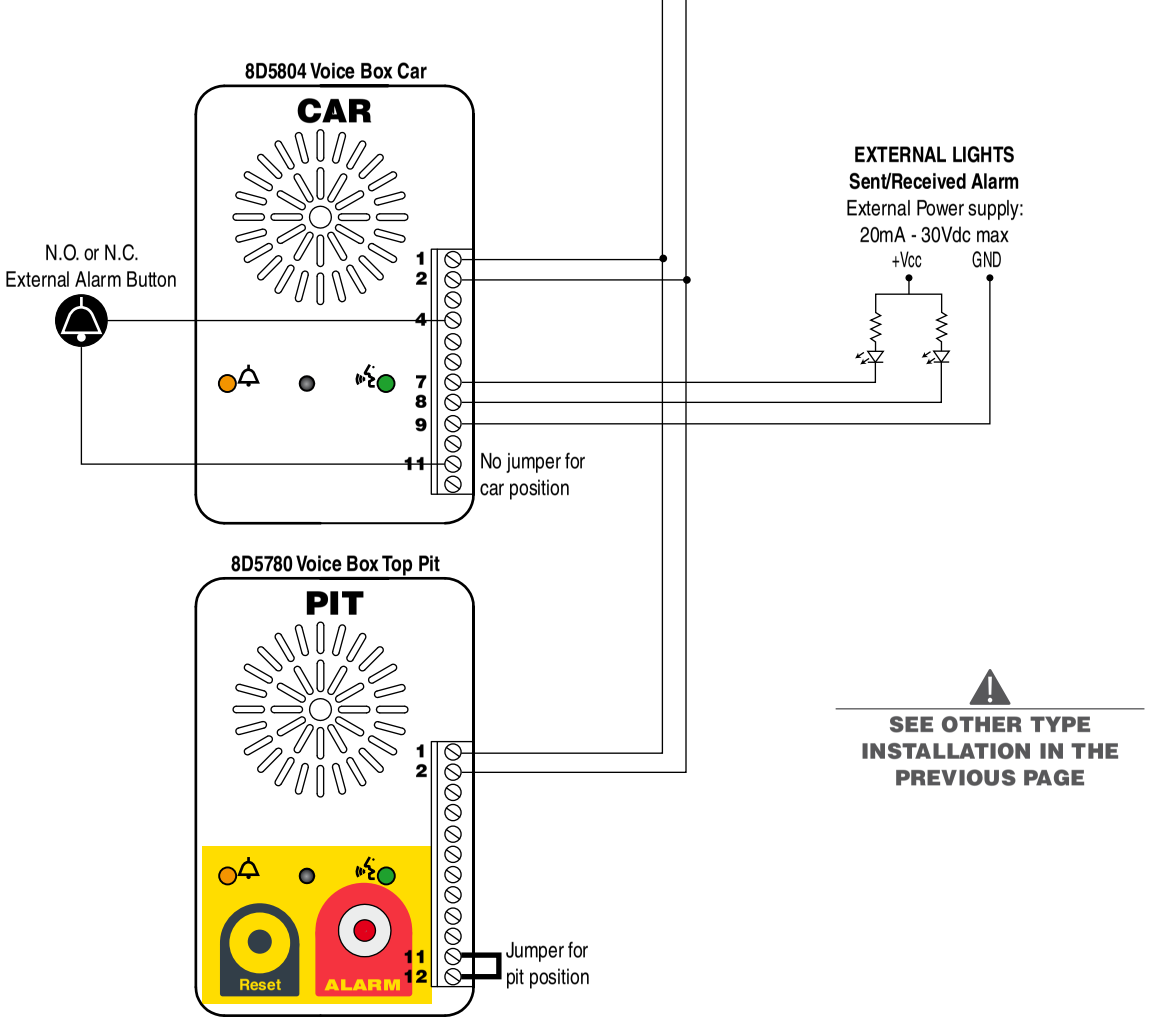
SEE OTHER TYPE INSTALLATION IN THE NEXT PAGE

COMPLETE TRIPHONY INSTALLATION

1. **Insert the SIM card;**
2. **Connect the antenna;**
3. **Connect the VoiceBox;**
4. **Connect the Alarm button/s [*];**
5. **Switch-on the 2G Lift Dialer;**
6. **Check the Power Led is ON;**
7. **Check the GSM Led is Blinking or ON;**
8. **Configure the 2G Lift Dialer.**

[*] = The button must have 2 contacts to separate the activation circuit of the alarm call from the bell circuit.





SEE OTHER TYPE INSTALLATION IN THE PREVIOUS PAGE

2.3. TESTS DURING THE INSTALLATION

Locate a proper position for the various parts of the system and before the final mounting check the following:

- **2G Lift Dialer Emergency phone**
  - SIM correctly inserted;
  - antenna connector screwed until its end point;
  Apply the magnetic base of the antenna only on metal zone, without connection to earth
  Please use eventually the metal support, find in the package, fixed it to the wall
  - good GSM signal: yellow led on or blinking;
  - correct connection and correspondence of the cables to the pins of terminal board;
  - terminal board screws tightened all the way down;
  - terminal board completely fitted on the 2G Lift Dialer.
- **Voice Box speakerphone**
  - Once Voice Box has been placed behind the car operating panel, it won't be possible anymore to access the terminal board for connections;
  - connection to the terminal board of the 2 wires coming from 2G Lift Dialer;
  - connection of the 2 wires for the lift alarm button: the button must a 2 contact buttons to separate the circuit for the activation of the alarm call from the bell circuit;
  - for model 8D5780, jumper to identify Top – Pit;
  - correct display of the light signals behind the car operating panel;
  - correct correspondence of the microphone behind the hole on the car operating panel;
  - correct correspondence of the speaker behind the holes on the car operating panel.

Once the installation is completed **you can go on with the configuration of the Emergency phone** in few minutes with one of the following possibilities, as you prefer:

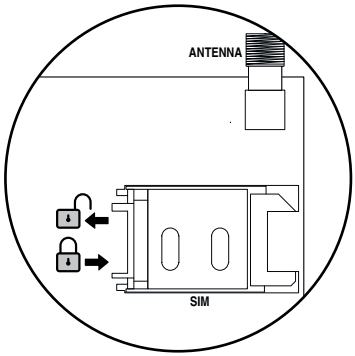
- Application for Android smartphones: via SMS or BLE;
- via SMS by mobile phone;
- with telephone or mobile phone calling the 2G Lift Dialer;
- with a common DTMF phone connected to pins 3-4 of 2G Lift Dialer.

2.4. BEFORE POWERING LIFT DIALER ON

Place 2G Lift Dialer where you prefer, in a zone with a good GSM signal, and go on as follows:

1. Open the SIM holder by slightly pressing and pushing it horizontally toward the internal side of the card.
   Now **insert the SIM card**. Pay attention to the SIM cut corner and be sure the golden contacts of the SIM are turned downwards when closing the SIM holder.
   Close the SIM holder by slightly pressing and pushing it horizontally in the opposite side to block it and correctly fix the SIM.

2. Connect the 2G antenna you find in the package to the golden SMA connector. Screw it clockwise; in case of problem do not force but remove the antenna and try again.



⚠ **Apply the magnetic base of the antenna only on metal zone, without connection to earth.**
Please use eventually the metal support, find in the package, fixed it to the wall.

3. Connect **pins 5-6 of 2G Lift Dialer to pins 1-2 of Voice Box.**
   PINS CAN BE CROSSED.
   For a good audio quality use a twisted pair for the connection. Otherwise you can use two unused wires already present in the car cable or use the the wires already present and used for the bell after having modified the system as described in paragraph RELAY1: BELL MANAGEMENT.
   In this case the audio quality could not be the best one.

4. Connect eventually the external button (or buttons) on Voice Box.

5. Now power **2G Lift Dialer** on following the polarity:
   pin 21 : 12-24 Vdc
   pin 22 : GND

⚠ **We suggest to use Digicom power supply for 2G Lift Dialer:**
Switching power supply (IN: 100-240 Vac / 50-60Hz / 0,5A – OUT 12 Vdc / 1A) (code 8D6065)
USE ONLY A LIMITED POWER SOURCE (LPS) POWER SUPPLY, ACCORDING TO EN 60950-1 (2.5) REQUIREMENTS.

6. Check the LED power on:
   Power: green fixed ON
   GSM: at the beginning OFF; after the affiliation to the GSM network it is yellow fixed ON or blinking.

7. For the first alarm call after powering, wait 1 minute, in this time 2G Lift Dialer completes the internal initializations.

2.5. VOICE BOX CONNECTION

Place the Voice Box(es) where you prefer and go on as follows:

1. Switch Off the 2G Lift Dialer.

2. Connect **pins 5-6 of 2G Lift Dialer to pins 1-2 of Voice Box.**
   PINS CAN BE CROSSED.
   For a good audio quality use a twisted pair for the connection. Otherwise you can use two unused wires already present in the car cable or use the the wires already present and used for the bell after having modified the system as described in paragraph RELAY1: BELL MANAGEMENT.
   In this case the audio quality could not be the best one.

3. **Set Voice Box as Car-Top-Pit**
   For model 8D5804
   Voice Box Car = Factory Default (no Jumper)

   For model 8D5780
   Voice Box Top = Close Pin 10-11
   Voice Box Pit = Close Pin 12-11

Maximum 3 Voice Box Can be present in the system.

4. Connect the **external alarm button for the car to pin 4-11 of Voice Box**.
   The button can be N.O. or N.C. The button must have 2 contacts to separate the activation circuit of the alarm call from the bell circuit.

5. Connect the eventual **external alarm button for Top - Pit to pins 3-11 of Voice Box**.
   The buttons installed on Top or in Pit, for technical people, can be N.O. or N.C. It is necessary that both buttons have the same configuration: both N.O. or both N.C.

6. Connect the eventual external signal of Sent Alarm to pins 7-9.

7. Connect the eventual external signal of Received Alarm to pins 8-9.

8. Now turn on the il 2G Lift Dialer: wait 1 minute before run the alarm call, in this time 2G Lift Dialer complete the internal initializations.

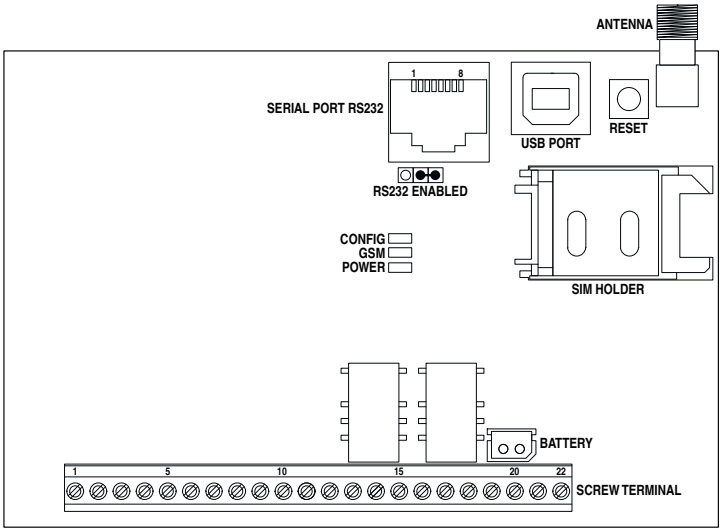
2.6. 2G LIFT DIALER PINOUT

PIN	DESCRIPTION
1	NOT USED
2	NOT USED
3	PHONE
4	PHONE
5	**VOICE BOX**
6	**VOICE BOX**
7	IN F (ALARM FILTER)
8	IN SOS
9	IN T (TECHNICAL ALARM)
10	GND (IN F , IN SOS , IN T)
11	GND
12	RELAY1 - N.O.
13	RELAY1 - COM
14	RELAY1 - N.C.
15	RELAY2 - N.O.
16	RELAY2 - COM
17	RELAY2 - N.C.
18	BATTERY [+] *
19	BATTERY [-] *
20	GND
21	**POWER (12-24Vdc) [+]**
22	**GND**

* The battery with connector (code 7D1991) can be connected to the specific connector present on 2G Lift Dialer; if the battery has no connector, it can be connected to pins18-19 of the terminal board, paying attentions to the polarity.

We suggest to use Digicom power supply for 2G Lift Dialer:
Switching power supply (IN: 100-240 Vac / 50-60Hz / 0,5A – OUT 12 Vdc / 1A) (code 8D6065)
USE ONLY A LIMITED POWER SOURCE (LPS) POWER SUPPLY, ACCORDING TO EN 60950-1 (2.5) REQUIREMENTS.

2.7. LIFT DIALER TOPOGRAPHY



2.8. VOICE BOX - CAR PINOUT (CODE 8D5804)

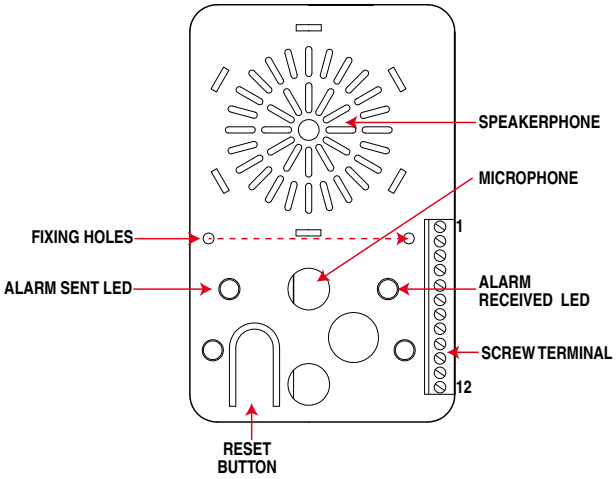
PIN	DESCRIPTION
1	**LIFT DIALER**
2	**LIFT DIALER**
3	EXTERNAL ALARM BUTTON IN TOP and/or PIT (N.O. or N.C.)
4	**EXTERNAL ALARM BUTTON IN CAR (N.O. or N.C.)**
5	HEARING LOOP (-)
6	HEARING LOOP (+)
7	EXTERNAL LED: ALARM SENT (YELLOW LIGHT)
8	EXTERNAL LED: ALARM RECEIVED (GREEN LIGHT)
9	GND FOR EXTERNAL LEDS
10	NOT USED
11	**GND FOR EXTERNAL ALARM BUTTON**
12	NOT USED

For a good audio quality we suggest the use of a twisted pair for the connection.
Otherwise it is possible:

- to use two unused wires already present in the cabin cable;
- to use the two wires already present that are used for the bell, after having modified the system as described in paragraph RELAY1: BELL MANAGEMENT.
  In these cases the audio quality could not be so good.

The buttons installed on Top or in Pit, for technical people, can be N.O. or N.C. It is necessary that both buttons have the same configuration: both N.O. or both N.C.

2.9. VOICE BOX - CAR TOPOGRAPHY (CODE 8D5804)



2.10. VOICE BOX - TOP / PIT PINOUT (CODE 8D5780)

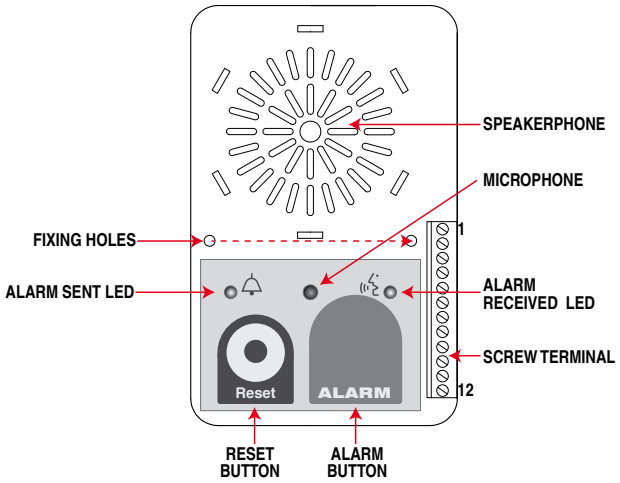
PIN	DESCRIPTION
1	LIFT DIALER
2	LIFT DIALER
3	NOT USED
4	NOT USED
5	NOT USED
6	NOT USED
7	NOT USED
8	NOT USED
9	NOT USED
10	TOP
11	GND
12	PIT

For a good audio quality we suggest the use of a twisted pair for the connection.
Otherwise it is possible:

- to use two unused wires already present in the cabin cable;
- to use the two wires already present that are used for the bell, after having modified the system as described in paragraph RELAY1: BELL MANAGEMENT.

In these cases the audio quality could not be so good.

2.11. VOICE BOX - TOP / PIT TOPOGRAPHY (CODE 8D5780)

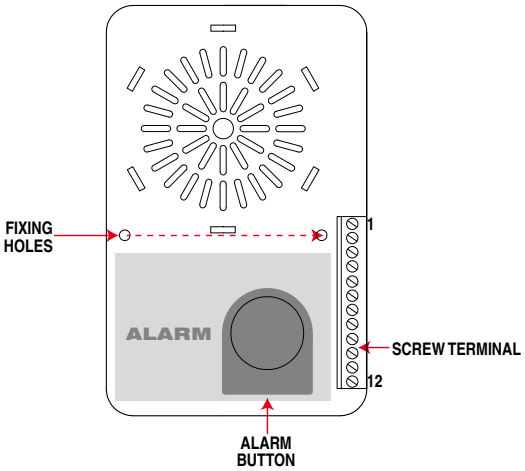


2.12. VOICE BOX BUTTON PINOUT (CODE 8D5810)

PIN	DESCRIPTION
1	NOT USED
2	NOT USED
3	NOT USED
4	**VOICE BOX CAR**
5	NOT USED
6	NOT USED
7	NOT USED
8	NOT USED
9	NOT USED
10	NOT USED
11	**VOICE BOX CAR**
12	NOT USED

For installation on Top/Pit, with alarm button only, without integrated microphone and speaker.
This model will have to be connected to Voice Box Car and it won't be connected to 2G Lift Dialer Emergency phone.
Otherwise it is possible to use a N.O. or N.C. button.
The buttons installed on the Top or in Pit, for the technical people, can be N.O. or N.C. It is necessary that both have the same configuration: both N.O. or both N.C.

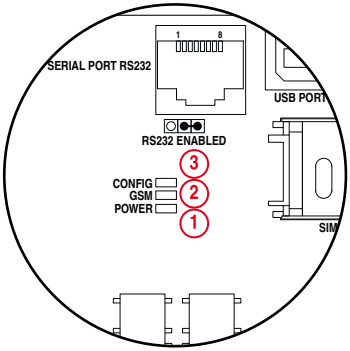
2.13. VOICE BOX BUTTON TOPOGRAPHY (CODE 8D5810)



2.14. LIFT DIALER: LED INDICATORS

Through 3 led indicators you can check the status of 2G Lift Dialer:

LED	STATUS	DESCRIPTION
1 POWER	OFF	Device powered OFF
	Blinking **A**	Main power absent, battery in use
	ON	Device powered ON
2 GSM	OFF	SIM card not present or PIN request or network search or Low GSM Signal
	Blinking	Good GSM Signal
	ON	Excellent GSM Signal
3 CONFIG	1 Long blink	Correct configuration
	3 Long blinks	Wrong configuration
	Continuously blinks **B**	Roaming mode or virtual operator **C**

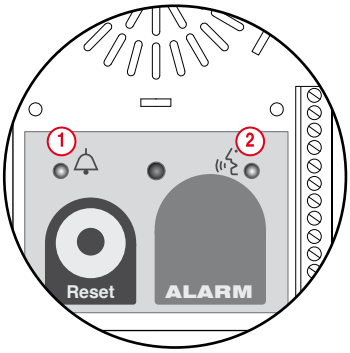


NOTES:
(A) : 2 sec OFF / 300 msec ON To reduce the battery consumption, when main power is absent, the other leds are turned off
(B) : 2 sec OFF / 300 msec ON
(C) : In the new firmware version the calls are always enabled

2.15. VOICE BOX: LED INDICATORS

Through 2 led indicators you can check the status of Voice Box:

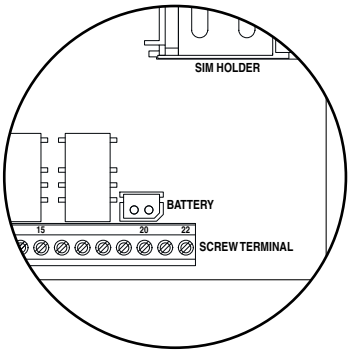
	LED	STATUS	DESCRIPTION
1	**SENT ALARM** pin 7-9	OFF	No alarm
		ON Yellow	Alarm is active
2	**RECEIVED ALARM** pin 8-9	OFF	Alarm not received/not registered (speakerphone not active)
		ON Green	Alarm received by the Alarm Center (speakerphone active)



2.16. BACKUP BATTERY

2G Lift Dialer can be equipped with a backup battery (Digicom code 724000163401) to ensure proper operation in the event of main power blackout.

Backup Battery features:
Li-ion Polymer 3,7V – 4000mAh rechargeable
For a correct and complete battery charging, leave the device connected to the power supply for at least 20 hours.
Battery best performances for autonomy are reached after 2 or 3 cycles of complete charge and discharge.



ATTENTION. 2G Lift Dialer is equipped with a built-in battery charger specifically for Li-ion Polymer batteries. The use of different batteries than those provided may damage the device or cause fire of the battery.
DIGICOM DOES NOT GUARANTEE A CORRECT OPERATION WITH OTHER BATTERIES.

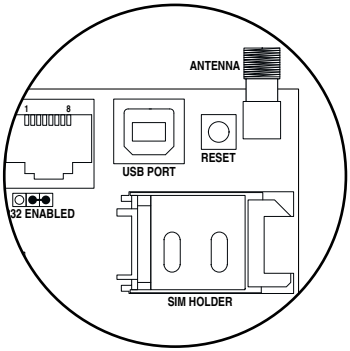
NOTE: the charge of the battery is guaranteed only between 10°C and 45°C
The battery operation, without power, is guaranteed only between -10°C and +55°C

At room temperature and new battery the autonomy time are:
standby: about 6 hour (*)
In conversation: about 1 hours e 30 minutes(*)
(*) The Performance of the battery they decrease over time because they are influenced by various factors. For example by number of battery charging cycles, operating temperature of the device and the signal power GSM in the place of installation.
For these reasons, to guarantee a correct autonomy, the battery must be replaced every 4 years.
Batteries are considered hazardous waste and must be disposed in according to local regulations.

The battery can be connected on the specific connector on the 2G Lift Dialer; If the battery does not have a connector can be connected to pin 18 and 19 as indicated in the lift dialer terminal board table paying attention to the polarity.
Before to replace the battery, switch off the device.

2.17. RESET BUTTON

ACTION	DESCRIPTION
Press and release	Reboot and Alarms Reset The yellow GSM led will switches off for a new registration to the GSM network.
Press for 10 seconds	Factory default and Reboot The red CONFIG led will switches on for 3 seconds to confirm that 2G the default factory configuration has been reloaded. All the saved settings and recorded messages will be deleted.



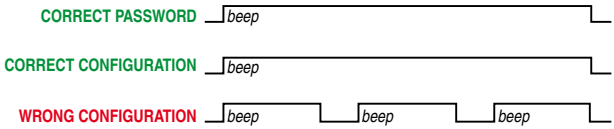
3. CONFIGURATION

2G Lift Dialer can be configured with:

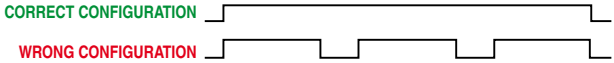
- Lift Manager Application for Android smartphones via SMS or BLE;
- SMS with mobile phone;
- phone or mobile phone calling the Emergency phone;
- common DTMF phone connected to pin 3-4 of the Emergency phone.

To access the configuration you must know the password.
In the factory configuration the **password** is **21010**.

During the configuration by phone (local and remote) some sound signals are played to advise the installator of the following situations:



Together with the audio signals, you can verify the correct configuration from the red LED CONFIG of the 2G Lift Dialer:



3.1. CONFIGURATION VIA LOCAL PHONE

1. Connect a phone with a proper cable to pin 3-4 of the terminal board.
2. Off-hook the phone and wait a welcome message is played with the possible operations.
3. Insert the password, default 21010, even during the message playing and wait for sound signal **CORRECT PASSWORD**.
   In case of wrong password, the welcome message is repeated again and you will have to insert the password newly. After 2 repetitions, the Emergency phone enables the speakerphone communication with Car1.
4. Insert the configuration according to **CONFIGURATION TABLE**.
5. After each command wait for sound signal **CORRECT CONFIGURATION** before giving a new command.
   In case of sound signal **WRONG CONFIGURATION**, repeat the command.
6. To complete the configuration, digit ****#** or hang up. If the configuration is not complete or you don't hang up, after a few minutes Emergency phone automatically disconnect the communication and it restores the condition of standard operation.

3.2. CONFIGURATION VIA REMOTE PHONE

1. Call the SIM phone number of 2G Lift Dialer.
2. Wait the answer from 2G Lift Dialer and the welcome message is played with the possible operations.
3. Insert the password, default 21010, even during the message playing and wait for sound signal **CORRECT PASSWORD**.
   In case of wrong password, the welcome message is repeated again and you will have to insert the password newly. After 2 repetitions, the Emergency phone enables the speakerphone communication with Car1.
4. Insert the configuration according to **CONFIGURATION TABLE**.
5. After each command wait for sound signal **CORRECT CONFIGURATION** before giving a new command.
   In case of sound signal **WRONG CONFIGURATION**, repeat the command.
6. To complete the configuration, digit ****#** or hang up. If the configuration is not complete or you don't hang up, after a few minutes Emergency phone automatically disconnect the communication and it restores the condition of standard operation.

3.3. CONFIGURATION VIA SMS

Send to the SIM phone number of 2G Lift Dialer the SMS messages as reported in the **CONFIGURATION TABLE. The message must be always precedeed by the access Password.**
With the configuration via SMS it is possible to send to 2G Lift Dialer several commands with a sole SMS, by inserting at the beginning of the message the **Access password** once only.
See the paragraph **MULTI-COMMANDS VIA SINGLE SMS.**

3.4. CONFIGURATION TABLE

After inserting the access password you will be able to configure 2G Lift Dialer with the commands in the table.
After each command, wait for the sound signal **CORRECT CONFIGURATION** before going on with a new command.
If the commands are sent via SMS, remember to insert the password before every command.
Multiple commands can be sent simultaneously via SMS inserting the password only at the beginning of the message.
For further information see the Examples in the table and the paragraphs that describe the command.
The values between the [ ] must be substituted with the values of your settings.

DESCRIPTION	COMMAND
Access Password (factory)	2 1 0 1 0
Exit the configuration	* * # (or hang up)
Restore **factory configuration**	* 9 9 #
Restore **complete factory configuration**	* 9 9 0 0 #
Alarm call: phone numbers Example 2 0 0 1 * 0 4 * 3 3 3 1 2 3 4 5 6 7 # The address book with 12 positions is unique for the phone numbers for alarm calls, for autotest calls and for technical & battery alarm calls. Use then a different address book position for each phone number. In the factory configuration in position 01 there is the number 0000, with this setting, if the alarm button is pressed, the call is forwarded to the local phone (connected to pin 3-4 of the 2G Lift Dialer).	2 0 [xx] * [pp] * [phone number] # xx: address book position from 01 to 12 pp: alarm call protocol **04 = recorded message** 00 = Ademco Contact ID 01 = P100 02 = Digicom
Periodical autotest call: phone numbers Example 2 1 1 1 * 0 3 * 3 4 0 9 8 7 6 5 4 3 # The address book with 12 positions is unique for the phone numbers for alarm calls and for autotest calls. Use then a different address book position for each phone number.	2 1 [xx] * [yy] * [phone number] # xx: address book position from 01 to 12 pp: autotest call protocol **03 = no answer (ring only)** 00 = Ademco Contact ID 01 = P100 02 = Digicom
Technical & Battery alarm call: phone numbers Example 2 2 1 2 * 0 3 * 3 5 2 3 4 5 6 7 8 9 # The address book with 12 positions is unique for the phone numbers for alarm calls, for autotest calls and for technical & battery alarm calls. Use then a different address book position for each phone number.	2 2 [xx] * [pp] * [phone number] # xx: address book position from 01 to 12 pp: autotest call protocol **03 = no answer (ring only)** 00 = Ademco Contact ID 01 = P100 02 = Digicom 05 = SMS

DESCRIPTION	COMMAND
Alarm call (ex. Pit or smoke flooding sensor): Phone Number (sensor connected to VoiceBox) Es. 2 3 1 2 * 0 3 * 3 2 1 0 9 8 7 6 5 4 # The phone Book with 12 position is unique for all type of numbers. Use a different phone Book position for each any phone number type.	23 [xx] * [pp] * [numero tel] # xx : phone book position from 01 to 12 pp : call protocol **03 = no answer (ring only)** 00 = Ademco Contact ID 01 = P100 02 = Digicom
Address book cancellation	2 4 0 1 * 0 0 * 1 2 3 4 #
Recording of alarm message The command can be performed by local and remote phone only. After the confirmation tone, dictate the message. To interrupt the recording press * . Automatically the recording stops after 20 seconds. Example of message: “Attention please, Emergency request from Digicom in Legnano, 95 Cadorna street. Press 3 for speakerphone, at the end 19 to reset the alarm”.	4 0 #
Playback of alarm message	4 1 #
System identification (used only in calls with digital protocols: Ademco Contact ID and Digicom) Example 3 0 0 0 0 2 #	3 0 [zzzz] #
System identification (used only in calls with digital protocols: P100) Example 3 1 0 0 0 0 0 0 0 2 #	3 1 [nnnnnnnn] # n : from 0 to 9, A B C D
Date and time setting Example 3 4 1 0 0 5 1 4 * 0 8 2 8 # 2G Lift Dialer synchronizes the date and time with the hour of the GSM network at any power on, if supported by the operator, and after any received SMS.	3 4 [ddmmyy] * [hhmm] # dd: day of the month from 01 to 31 mm: month from 01 to 12 yy: year from 14 (2014) hh: hour from 00 to 23 mm: minutes from 00 to 59
Autotest call: **frequency** Example 3 5 0 3 * 0 5 0 9 # In the Factory configuration, the 2G Lift Dialer is configured to do the auto-test call every 3 days. If it isn't necessary to change the days or set a specific hour, you can configure only the phone number with 21 command. For an immediate test, see the next command.	3 5 [rr] * [hhmm] # rr: 01 = every day 02 = every 2 days 03 = every 3 days hh: hour from 00 to 23 99=random mm: minutes from 00 to 59; 99=random If hhmm = 9999 the 2G Lift Dialer will calculate a random time from 00:00 to 23:59
Autotest call: **test call** After this command 2G Lift Dialer make a test call right away. This command doesn't cancel the frequency set (previous command)	3 5 9 9 * 0 0 0 0 #
Autotest call: number of attempts in case of failed call. The attempts are made every 20 seconds. See next command. Example 3 6 0 4 #	3 6 [nn] # nn: from 01 to 10 (default 03)
Autotest call: delay for the recalls	3 7 [ss] # ss: from 01 to 99 seconds (default 20)

DESCRIPTION	COMMAND
Alarm Call: delay for the recall in case of disconnection of the line without alarm reset (19) In case of missed call, the next attempt is made after 20 seconds. Example 3 9 0 0 1 #	3 9 0 [mm] # mm: minutes from 00 to 59 (default 02)
Alarm call: pause between the playback of comfort messages in case of recall.	3 9 1 [tt] # tt: from 01 to 99 seconds (default 20)
Alarm call: maximum time of conversation. A few seconds before the time expires, you hear 2 beeps. To extend the time at your disposal for other [t] minutes, digit the same code used to enable the speakerphone. The default code is 3.	3 9 2 [t] # t: from 1 to 9 minutes (default 3) 0 conversation active till the end alarm reset code.
Alarm call: number of repetitions of alarm message. The code to enable the speakerphone (3) can be sent at any time.	3 9 3 [r] # r: from 1 to 30 (default 10)
Alarm call: code to repeat the alarm message. The codes: to repeat the message, to enable the speakerphone and to reset the alarm (end alarm) must be different.	9 5 * 0 4 * [d] # d: from 0 to 9 (default empty) if empty, it is not possible request the repetition of the message. In factory setting, the message is repeated 10 times.
Alarm call: code to enable the speakerphone. The codes to repeat the message, to enable the speakerphone and to reset (end alarm) must be different.	9 6 * 0 4 * [d] # d: from 0 to 9 (default 3)
Alarm call: code to enable the reset/end alarm. The codes to repeat the message, to enable the speakerphone and to reset (end alarm) must be different.	9 7 * 0 4 * [d] # d: from 0 to 99 (default 19) if empty, by finishing the call, the alam will reset.
Alarm call: number of recalls in case on failed call. The number of recalls is to be calculated on the number of rotations in the address book. For example, if the set calls are 3 and: - in the address book there is one number only, the calls will be 3 at maximum - in the address book there are 3 numbers, there will be 9 calls totally	3 9 9 * [n] # n: from 1 to 99 alarm calls (default 3) 0 infinite number of alarm calls up to the reception of reset/end alarm code.
Welcome message: number of repetitions of the message and pause between the repetitions. The codes to enable the speakerphone: *1 the password can be sent at any time. If you don't digit anything, after the message repetitions, 2G Lift Dialer trys to contact Car1. If r = 0 the configuration can be modified via SMS only.	3 9 4 [r] * [t]# r: from 1 to 98 repetitions (default 2) 0 no messsage, direct speakerphone 99 infinite repetitions up to the code of speakerphone activation. t: pause between the repetitions from 5 to 20 seconds (default 7)
Enable speakerphone in car (internal phone) This command is to be sent during the welcome message playing, without password.	* 1 or wait = for Car1
Close speakerphone with the car and return to welcome message	1 0 #
Close speakerphone with the car	Hang up

DESCRIPTION	COMMAND
Alarm reset by configuration	1 9 #
Alarm reset during speakerphone on	1 9
Enable the answer to configuration messages via SMS. By enabling the answer, after the configuration message, you will receive **ACK if the command is correct** and it has been executed, **NACK if the command is not correct**.	9 4 [r] # r: 0 answer disabled (default 0) 1 answer enabled
Microphone volume	4 2 1 [m] # m: from 1 to 7 (default 5)
Speaker volume	4 2 2 [a] # a: from 1 to 7 (default 5)
Enable technical & battery alarms Example 5 0 1 0 1 0 # a = external input, for example flooding sensor (pin9-10) b = battery autonomy lower than 60' c = battery error (recharge error, no battery, faulty battery) d = no main power	5 0 [abcd] # The single values a b c d can be set to: 0 = disabled 1 = enabled
Technical alarms: delay before sending the alarm due to **No battery/battery restore** **No power/power restore** The signal of alarm/restore will be sent only if the status of "Battery Restore Error" or "No power/Restored power"continues for the set time.	5 1 [m] # m: from 1 to 99 minutes (default 5)
Enable the sensor connect to the Pit Water VoiceBox (8D5780PW) Ex. 5 3 1 * 1 0 #	53 [a] * [t] # a = 0: sensor disable 1: sensor enable, Only Start Alarm 2: sensor enable, Start/End Alarm t = time window to consider valid the alarm from 1 to 3600 sec
Modify password Example *91*21010*12345#	* 9 1 * [old pwd] * [new pwd] #
Enable roaming calls with automatic affiliation to the GSM operator	2 9 1 #
Enable roaming calls with choice of GSM operator. Example 2 9 2 2 2 2 0 1 #	2 9 2 [operator code] #
Select language of standard messages: comfort, alarm, welcome. The available languages depends of software version.	4 5 * 3 4 # Spanish 4 5 * 3 9 # Italian (default) 4 5 * 4 4 # English 4 5 * 31 # Dutch 4 5 * 4 9 # German 4 5 * 4 6 # Swedish

DESCRIPTION	COMMAND
Relay1 management: **open gate** N.O. pin12-13 N.C. pin13-14 If the bell management is active (command 84t#) the command open gate 81# is ignored.	8 1 #

Relay1 management: bell management
 	
Example 8 4 1 0 #
	8 4 [t] # t:
	0 = disabled (default 0).
	From 1 to 98 seconds of bell ring up to speakerphone is enabled.
	99= continuous bell ring up to speakerphone activation.

Relays 1 and 2 management: SENT ALARM and RECEIVED ALARM The signaling of SENT ALARM and RECEIVED ALARM is reported on Relays 1 and 2 of 2G Lift Dialer.	8 5 [x] # x : 0 = disabled 1 = enabled
Enable Relays 1 in case of alarm on the sensor connected on VoiceBox Pit Water Ex. 8 7 1 * 1 0 #	87 [a] * [t] # a = 0: disable 1: enable 9: Reset of relays and alarm state t = 0 relays always enable 1-10 sec.
Relay 2 management: **open gate** N.O. pin15-16 N.C. pin16-17 If the law 13 management is active (command 831#) the command open gate 82# is ignored.	8 2 #
Relay2 management: GSM network ABSENT The presence/absence of GSM network is reported on the Relay 2.	8 6 [x] # x : 0 = disabled 1 = enabled
Relays 2: LAW 13 Ex. 8 3 1 #	83 [x] # a = 0: disable 1: enable
Time of pressure for SOS button (VoiceBox) Example 9 3 1 # Example 9 3 2 3 #	9 3 [t] [c] # t: from 1 to 9 (default 5) c: 1 or not present = car 1 2 = car 2 3 = car 3
Device restart	* 8 8 #
PIN insertion	* 9 3 [pin] # pin: pin code of the SIM, 4 digits. After 3 faulty attempts, the PUK code will be required.

DESCRIPTION	COMMAND
PUK insertion and new PIN	* 9 3 [puk] * [pin] # puk: puk code of the SIM, 10 digits. After 10 faulty attempts, the SIM is disabled. Contact the telecom operator. pin: new pin code of the SIM, 4 digits.
Compatibility with versions of VoiceBox Car previous than v0.53 (multi lift)	* 9 4 [a] # a: 0 previous compatibility disabled. Starting from v0.3.26, 2G Lift Dialer can communicate only with VoiceBox v0.53 or later. 1 previous compatibility enabled. Starting from v0.3.26, 2G Lift Dialer can communicate also with VoiceBox preceding version v0.53
Enable the GSM (disable the PSTN) To Enable the GSM is required the unlock code to be requested to Digicom.	* 920 * [chiave] #
Enable the PSTN (disable the GSM)	* 921 * #
Firmware version and base parameters Via SMS only.	* 1 1 #

3.5. CONFIGURATION EXAMPLES

Phone number for SOS calls: 3351111111	(see line 3)
Second phone number for SOS calls: 3352222222	(see line 4)
Phone number for Autotest calls: 3408888888	(see line 5)
Periodic test call every 3 days at a time calculated by 2G Lift Dialer	(see line 6)
Current date and time: 3 June 2014, time 16:04	(see line 7)
Phone number for Technical & Battery alarm calls: 3209999999	(see line 8)
Enable battery fault alarm:	(see line 9)

	COMMAND DESCRIPTION	COMMAND BY PHONE	COMMAND VIA SMS
1	Password Configuration	21010	-
2	Factory Reset	*99#	21010*99#
3	First num. For SOS Call	20**01***04***3351111111#**	210102**001***04***3351111111#**
4	Second num. For SOS Call	20**02***04***3352222222#**	210102**002***04***3352222222#**
5	Phone Number for autotest call	2110*03***3408888888#**	210102110*03***3408888888#**
6	Periodicity for test call	35**03*9999#**	210103**503*9999#**
7	Current data and Hour	34**030614*1604#**	- (A)
8	Phone number for Technical & Battery alarm	2211*03***3209999999#**	210102211*03***3209999999#**
9	Enable Battery Fault alarm	500010#	21010500010#

Note:

(A) 2G Lift Dialer synchronizes the date and hour with the hour of the GSM network at every power on, if supported by the GSM operator, and after any received SMS.

3.6. MULTI-COMMANDS VIA SINGLE SMS

21010*99#2001*04***3351234567**#2111*03***3409876543**#35**03*9999**#2212*03*3523456789#500010#

3.7. RECORDING THE ALARM MESSAGE (COMMAND 40#)

During the alarm call, the alarm message is played back several times by 2G Lift Dialer to the Alarm Center and/or Support service before enabling the speakerphone conversation with the Car.
The recording is performed through the configuration local phone or by calling 2G Lift Dialer.

Insert the configuration password, then digit the command 40# and wait for the sound signal of CORRECT CONFIGURATION.
After that you can start recording the message. The vocal message can be maximum 20 seconds long.

To stop the recording before the 20 seconds, press * keys
We suggest to record in the message the address of the system and the keys to press to active the speakerphone mode in the Car and to reset the alarm.

Example "Lift Alarm at Digicom company in Legnano, viale Luigi Cadorna 95. Press 3 for speakerphone, at the end 1 9 to reset the alarm".

3.8. PLAYING THE ALARM MESSAGE (COMMAND 41#)

The alarm message is played back several times by 2G Lift Dialer to the Alarm Center and/or Support service before enabling the speakerphone conversation with the Car.
To play the recorded alarm message you must use the configuration local phone or call 2G Lift Dialer.

Insert the configuration password, then digit the command 41# .
At the end of message playback you will hear the sound signal CORRECT CONFIGURATION.

3.9. MANAGING THE ALARM CALL

When the Alarm Center and/or Support service receive the alarm call, while listening the message, they can perform the following operations:

- press a configured key to playback the alarm message again; the digit code can be modified with command 95*04*[d]# (in factory settings, none key is configured, and the emergency phone repeats the message 10 times).
- press 3 to enable the speakerphone in the car; code 3 can be modified with command 96*04*[d]#

Once the activation code of the speakerphone has been received, 2G Lift Dialer considers the alarm as received and it enables the speakerphone in the car powering on the green signal "Received Alarm". The people in the car can now talk to the Support service.
The conversation will go on maximum for 3 minutes: time can be set with command 392[t]# .
When time expires, 2G Lift Dialer hangs up and after about 2 minutes it makes a new call:
to the same number if in the address book a sole contact is present;
to the next telephone number, in case of multiple contacts.
A few seconds before the timer expires, you hear 2 beeps.
To extend the time at disposal for other [t] minutes, press the same come used to enable the speakerphone. The default code is 3.

3.10. RESETTING THE ALARM (COMMAND 19)

Once you are in contact with the Car, to close the alarm call it is sufficient to digit **19**.
The call will be closed and the alarm reset.

If the call is closed without the reset code (on purpose or interruption of the line), the comfort message will be cyclically played in cabin and 2G Lift Dialer will make a new call to the SOS center after 2 minutes.

Note: In this condition only the sent alarm led will be ON on the VoiceBox.

3.11. RESTORING THE FACTORY CONFIGURATION (COMMAND *99#)

The command ***99#** cancels the current configuration, **restoring all the factory values, except:**

- the configuration password;
- the recorded alarm message;
- the language setting;
- current date and time;
- eventual roaming setting.

3.12. RESTORING THE COMPLETE FACTORY CONFIGURATION (COMMAND *9900#)

The command ***9900#** cancels the current configuration, **restoring all the factory values, included:**

- the configuration password (21010);
- the recorded alarm message (empty);
- the language setting (Italian);
- eventual roaming setting.

Current date and time are never reset.
The restore of the complete factory configuration can also be performed by pressing the RESET button on 2G Lift Dialer for at least 10 seconds.

3.13. CHANGING THE LANGUAGE (COMMAND 45*XX#)

To select language of standard messages: comfort, alarm, welcome.

- **45*39#** Italian (default)
- **45*34#** Spanish
- **45*44#** English
- **45*31#** Dutch
- **45*49#** German
- **45*46#** Swedish

Example: to select the English language via SMS: **2101045*44#**

NOTE: The available languages depends of software version.

3.14. ADJUSTING SPEAKER VOLUME AND MICROPHONE GAIN

It is possible to adjust the volume of the speaker and the gain of the microphone for the best performances in the various installations.

- **421x#** Microphone gain (values from 0 to 7). The factory value is 5.
- **422x#** Speaker volume (values from 0 to 7). The factory value is 5.

Example:
to lower the microphone gain and make the speakerphone louder via SMS: **210104214#4227#**

Attention: the factory values should satisfy the various situations.
In case of change for real needs, we suggest to carefully control the audio quality and the absence of whistles. Check also the correct placement of microphone and speaker.

3.15. ACTIVATION OF SPEAKERPHONE IN CAR IN INCOMING CALLS

To get in contact with the people in the Car it is necessary:

- Call the SIM number of 2G Lift Dialer.
- After the anwer, wait for the tone and listen the instruction of the welcome message.
- After the message, digit * 1 for Car.
  If no keys is pressed, after 2 playbacks of the welcome message 2G Lift Dialer tries to open the speakerphone with car 1.
- Wait for the tone before starting the conversation.
- To exit the speakerphone and listen again to the welcome message, digit **10#** ; wait for the tone and eventually insert the code to enable the speakephone with another car or insert the password to access the configuration.
- It is possible to hang up at any time.
- The conversation will go on maximum 3 minutes. Time can be set with command 392[t]# .
  Once the time has elapsed, the 2G Lift Dialer closes the call, and after about 2 minutes it calls back:
  - the same number if in phone book there is 1 contact;
  - the next number in case of few contacts.

A few seconds before the timer expires, you hear 2 beeps.
To extend the time at disposal for other [t] minutes, press the same code used to enable the speakerphone. The default code is 3.

3.16. ACTIVATING THE INTERCOM FUNCTION (COMMAND *1 OR *2 OR *3)

The intercom function between the lift Car and the Control Center or the concierge service can be activated with a common phone connected to pin 3-4 of the Emergency phone.
To activate the conversation with the people in the Car:

- Off-hook the phone and wait for the tone. Listen to the instructions of the welcome message.
- After the message, digit * 1 for Car.
  If no keys is pressed, after 2 playbacks of the welcome message 2G Lift Dialer tries to open the speakerphone with car 1.
- Wait for the tone before starting the conversation.
- To exit the speakerphone and listen again to the welcome message, digit **10#** ; wait for the tone and eventually insert the code to enable the speakephone with another car or insert the password to access the configuration.
- It is possible to hang up at any time.
- The conversation will go on maximum 3 minutes. Time can be set with command 392[t]# .
  Once the time has elapsed, the 2G Lift Dialer closes the call, and after about 2 minutes it calls back:
  - the same number if in phone book there is 1 contact;
  - the next number in case of few contacts.

A few seconds before the timer expires, you hear 2 beeps.
To extend the time at disposal for other [t] minutes, press the same come used to enable the speakerphone. The default code is 3.

For compliance of Law 13, the device can close automatically the relays (pin15-16) in the moment of Off-Hook, and open the relays during the On-Hook. For manage the relays 2 in according to Law 13, enter in 2G Lift Dialer configuration, with the password, and sent 831# comand.

3.17. RELAY 1 AND 2: MANAGEMENT FOR GATE OPENING (COMMANDS 81# AND 82#)

The Emergency phone is equipped with 2 relays
Relay1 N.O. (pin12-13) and Relay1 N.C. (pin13-14)
Relay2 N.O. (pin15-16) and Relay2 N.C. (pin16-17).
Relay1 can be activated with command **81#** .
Relay2 can be activated with command **82#** .
Once the command is received, the Emergency phone changes the relay status for 3 seconds, restoring the initial status.
A typical use of the relay is to open the gate of the building where 2G Lift Dialer is installed.
If the Emergency phone is set for the **bell management** (command 84t#) the command Open gate 81# is ignored by Emergency phone and then it is not managed.
If the device is configured for the Manage Law 13 (831# Command). The Command Open Gate 82# is ignored from the device.

3.18. RELAY1: BELL MANAGEMENT (COMMAND 84T#)

For the connection between 2G Lift Dialer and VoiceBox Car you can use the 2 wires already present and normally used for the bell.
Here below the installation procedure to be carried on with 2G Lift Dialer powered off.
In the machine room, looks for the 2 wires going to the bell and connect them to Relay1 N.O. pins of 2G Lift Dialer (pins 12-13).
The bell must be powered with external power supply.
The old 2 wires of the bell that from the machine room goes down to the cabin are to be connected to pins 5-6 of 2G Lift Dialer.
The other end of the old 2 wires of the bell arriving in the cabin are to be disconnected from the alarm button and connected to the pins 1-2 of VoiceBox.
The Alarm button in the car, either N.O. or N.C. is to be connected to pins 4-11 of VoiceBox.

Now you can power on 2G Lift Dialer and go on with the configuration by inserting at least one telephone number for the alarm calls and by enabling the management of the bell with the command **8 4 [s]#**

s:	0 (default)	bell management disabled;
	From 1 to 98	bell management enabled: after the alarm detection (default 5 seconds), Relay1 closes for the set time, minimum 1 second, maximum 98 seconds
	99	bell management enabled: after the alarm detection (default 5 seconds) Relay1 closes till the speakerphone in car is active.

When the bell management is enabled, if the installation has been successful, the closing of Relay1 will activate the bell simultaneously to the power on of the yellow led (sent Alarm) of VoiceBox. The bell will ring for the set time unless the speakerphone in the car enables before the time is expired. The speakerphone will be enabled by the Support Center or by the Assistance personell by pressing the code (default 3) after receiving the call.
At the end of the alarm call, if the code of end alarm (default 19) is pressed, the bell does not restart because the alarm has been reset. If the call is interrupted without the Reset code, then the bell will restart ringing for the set time and till the speakerphone is newly activated in the car.

3.19. RELAYS 1: ACTIVATION MANAGED BY SENSOR CONNECTED TO THE VOICE BOX

If you are using a sensor connected to the VoiceBox Pit Water, like for example Water or Smoke detector, apart from receiving the Alarm call, it is furthermore possible to activate a Relay in order to operate some quick operations, like blocking the lift and move the car to the top floor.
In event of Alarm, the command 871*10# enables the Relay 1: this one will change the status for 10 seconds and then get back to the previous one.
In event of Alarm, the command 871*0# enables the Relay 1: this one will change and keep the new status up to when it will receive the reset command 879*#
Command 870*0# disables the Relay 1 connected to the sensor.

3.20. RELAY 2: GSM NETWORK ABSENT (COMMAND 861#)

In order to guarantee greater safety for the lift passengers, there is the possibility of having information about the absence of the GSM network on the Relay 2 contacts.
In the absence of the GSM network, it is not possible to make SOS calls, and therefore EN 81-28 can not be respected.
The installer, by enabling the command, thanks to the status of the relay 2, can block the system or give a visual / sound information about the incorrect operation of the emergency phone due to a lack of GSM network (phone line).
When the 861# command is active, the 82 # command normally managed as Open Gate is ignored, while the other commands: 831 #, 851 # are disabled.
In the factory configuration, Relay 2 is not managed to inform about the absence of the GSM network.

3.21. RELAY 1 AND RELAY 2: SENT ALARM AND RECEIVED ALARM (COMMAND 851#)

It is possible to report to the signals "Alarm Sent" and "Received Alarm", respectively on Relay 1 and Relay 2 of the 2G Lift Dialer, with command 851 #
From this moment on, when the yellow Alarm Alarm LED turns on or off on the VoiceBox, the Relay 1 changes state; in the same way, when the green LED of Received Alarm turns on or off on the VoiceBox, the Relay 2 changes state.
When the 851# command is active, the 81# and 82# commands normally handled as Open Gate are ignored, while the other commands: 831 #, 84t #, 861 # are disabled.
In the factory configuration, Relay 1 and Relay 2 are not managed to report the signals "Alarm Sent" and "Alarm Received".

3.22. RELAY 2: ITALIAN LAW 13 MANAGEMENT (COMMAND 831#)

According to Italian law 13, the Remote Alarm can automatically close Relay2 (pin15-16) at the moment you off-hook the phone and open Relays2 again when you hang up.
To manage Relay2 according to Italian Law 13, enter 2G Lift Dialer configuration by inserting the password, then **send the command 831#** . To disable Relay2 and do not manage Italian Law 13, send the command 830#.
In the factory configuration Relay2 is not managed according to Italian Law 13.

3.23. ALARM FILTERING

2G Lift Dialer can filter the alarm calls. For this functionalities it is necessary to connect pins 7 and 10 of the terminal board to the frame controller of every single lift.
According to EN 81-28 Regulation, the control logic of the panel should keep the contacts closed:

- when the car is in the zone of doors unlocking and the car and floor doors are completely open;
- when the car is moving and the doors open to the following stop.

When pins 7-10 are closed, the Emergency phone doesn't make the alarm call if the same has been activated by the Car through VoiceBox Car (8D5804).
No filter of alarms is provided instead for the alarm calls generated by the maintenance and installation people, with VoiceBox Top/Pit (8D5780) properly configurated as Top or Pit.

Digicom S.r.l.
ITALY • Viale Luigi Cadorna 95
20025 Legnano -MI- Tel. +39.0331.702611
www.digicom.it

digicom
B810 GROUP