

LIFT EMERGENCY MANAGEMENT DEVICE

VODAECO-18



INSTRUCTIONS MANUAL

CODE 2630088 – Rev. 1.3 – 08/09/2014



The manufacturer reserves the right to modify this document without forewarning and in any moment, without compromising the essential features of operation and safety.

1 DESCRIPTION

The **VODAECO-18 (V18)** is a telephone dialer for the management of the lift alarms. It is designed to fully accomplish with the EN 81-28. The device has to be installed on the top of the lift car and is completed by connections with the lift car and by the pit unit. The **V18** is provided with all the installer parameters already configured according to the customer wishes; no manual configuring operation is needed during installation.

If further configuration changes are desired, two different ways are available: remotely or with a local phone receiver, connected to the device.

The **V18** is equipped with an user interface with a synthesized voice for the configuration of the parameters, the registration of the vocal messages and the management of the alarms.

It is possible to program up to 11 numbers, related to these functions: digital alarm for assistance request, vocal alarm for assistance request, digital periodical survival call, vocal periodical survival call, digital battery (lift central unit) alarm, vocal battery (lift central unit) alarm.

It is also possible to have some pauses in order to exit.

2 TECHNICAL FEATURES

Device supply: 230VAC (if equipped with back-up battery); or 12V DC (if without back-up battery)
Absorption: 6VA at 230VAC max
Back-up battery (if present): 6V DC Ni-MH (>1400mAh)
Outlets for the lamps/led: 16V DC; 30mA max
2 optional programmable and independent relays: max 50V AC/DC; 1A max
Autonomy with Back-up battery: 4,5' hours in conversation and 10 hours in stand-by
Outlet for GSM2-02 module supply: 6V DC
Autonomy with back-up battery and with GSM2-02 module: 1,5 hours in conversation (absorption: 370mA) and 3,5 hours in stand-by (absorption: 200mA).
Telephone selection: multi frequency with 20 digits
Phone line interface: Universal PSTN – with country code setting (to be set)
Operation Led: the sent alarm led blinks every 3"
Integrated Loudspeaker: 8Ω; 3W; 87dB
Electric connections: extractable female terminal blocks
Plastic box: Polyamide 66 with 20% fibreglass
Dimensions: 211 x 153 x 91 mm
Weight: 450gr
Temperature: Operation and storage with batteries: 0÷45°C; -20÷35°C. Operation and storage without back-up batteries: -10÷40°C; -40÷70°C
Relative Humidity: Operation and storage with battery: 0 ÷60% non-condensing. Operation and storage without battery: 0÷90% noncondensing
Protection: IP31

3 SAFETY RULES

- This device is not to be used by children and by unable people without assistance
- This device is not to be touched while barefoot and with some parts of the body wet or humid.
- No cleaning operation is to undertake before having disconnected the device from the electrical net.
- It is forbidden to modify the safety and the regulating systems without the authorization and the instructions of the manufacturer.
- It is forbidden to unplug or wind the electrical wires coming from the device even though this is disconnected from the electrical net.
- It is forbidden to open the device before having disconnected it from the electrical net.
- The packaging material is not to disperse and to let within range of children, because it is potentially dangerous.

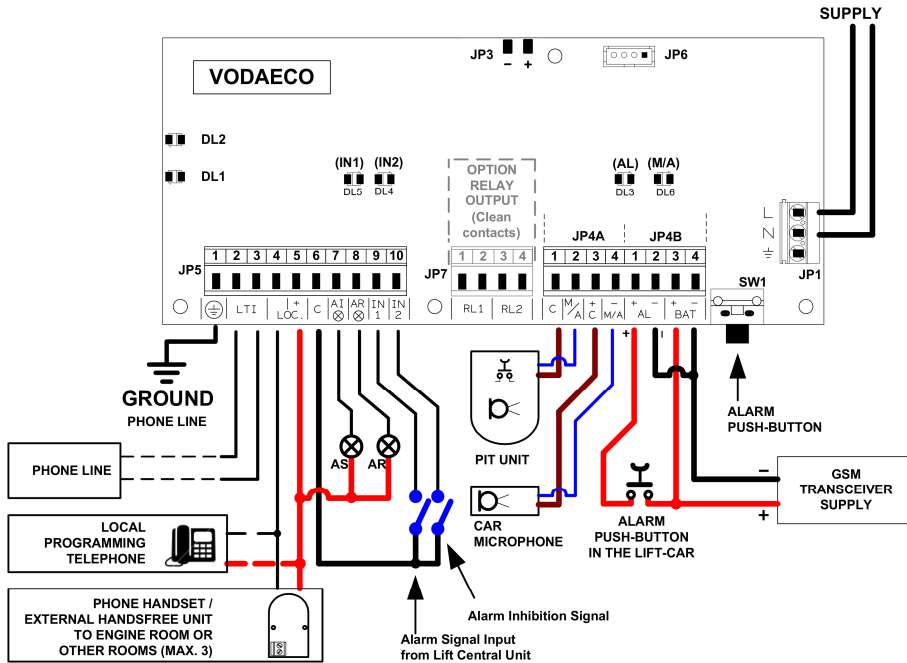


Fig. 1 - Electric connections

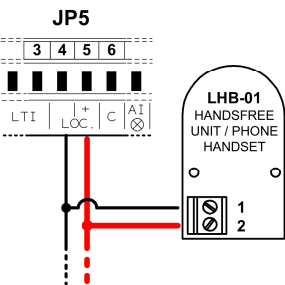


Fig. 2 - Handsfree unit connection

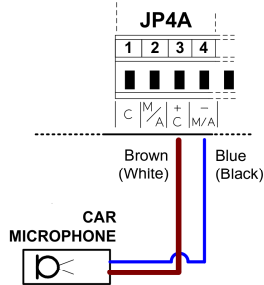


Fig. 3 - Car microphone connection

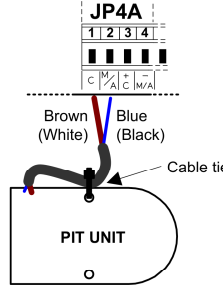


Fig. 4 - Pit unit connection

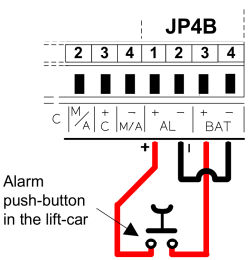


Fig. 5 - Alarm button connection (clean contact)

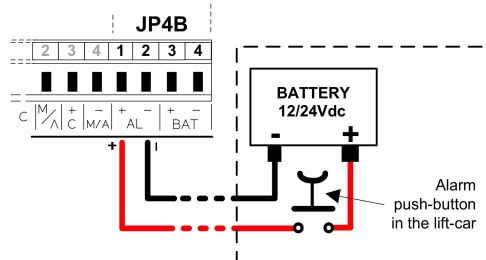


Fig. 6 - Alarm button connection (voltage contact)

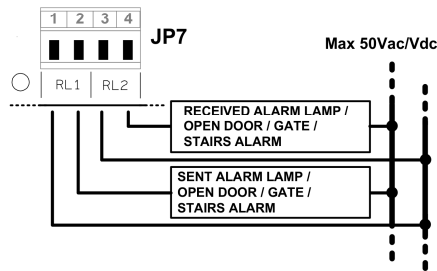


Fig. 7 - Relay 1 and 2 connection (clean contact) [OPTIONAL]

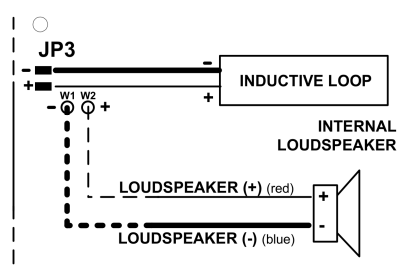


Fig. 8 - Inductive loop device connection

¹ The autonomy indicated are referred to the internal original battery, in good conditions.

4 MANUFACTURER DECLARATION

THE MANUFACTURER DECLINES ANY LIABILITY WHATEVER FROM ANY DAMAGE DERIVING FROM USING THE DEVICE IMPROPERLY OR IN ENVIRONMENTAL CONDITIONS DIFFERENT FROM WHAT ALLOWED.

4.1 WARRANTY

The manufacturing enterprise, through its authorized distributors, assures to the final user, according to what reported in the following conditions, to repair or substitute for free any part of this product that happens to get broken in one year from the delivery date. The damage has to be due to defective material or workmanship and not resulting from improper or incorrect use respect to what detailed in this manual.

The products have to be returned to the manufacturer, or collected by courier according to what previously agreed, at the customer's expenses.

Any repair or modification has to be carried out solely by the manufacturer or by the authorized distributors.

The products that have been subjected to improper use purposely or accidentally damaged or overloaded are to be excluded from this warranty.

The manufacturer is not to be held responsible for any warranty given in his name or on his behalf from anybody, including his distributors, that doesn't fall within the terms outlined in this warranty clause, except for what expressly approved in writing by the manufacturer.

The request of SPARE PARTS and INFORMATION regarding the device, should be sent to the nearest distributor or assistance centre, with reference to the MODEL and the PRODUCTION NUMBER to be read on the sticker. Use only original components.

4.2 PRECAUTION INSPECTION

Inspect the device immediately after having received it.

Carefully check all the components, according to bill and invoice.

Report any eventual damage caused by transportation and immediately submit a claim to the courier.

IMPORTANT NOTE: The manufacturer is not responsible for any damage caused to the device during transport.

4.3 UNPACKING

Unpack all parts carefully and make sure that all the components are there and in good conditions.

Store the packaging to eventually send the product back, during the warranty period.

The packaging is fully made of cardboard and can therefore be recycled.

4.4 STORAGE

This product has a long shelf-life. Nevertheless, it is advisable to check that all parts function correctly, after a storage period.

If the batteries are included, storage temperatures have to be respected.

5 MAINTENANCE

Check that the container is clean, any dirt should be removed from it. Make also sure that no dirt has penetrated into the container.

For the devices supplied by 230V AC:

Make sure that the batteries are in good conditions. Substitute the back-up battery pack if damaged or at least every **5 years** of continuous operation (as preventive maintenance), or when the device sends the low battery alarm. The batteries should be replaced exclusively with the original ones, available as spare parts.

The batteries contain highly toxic substances: **leave the flat batteries in the adequate containers for their correct disposal.**

6 END-OF-LIFE DEVICE DISPOSAL

The used packaging may be disposed through regular disposal centres. It is made only by non polluting materials which can be recycled as secondary prime materials. The device, accessorize

and batteries included, do not belong to the domestic disposal category, being made of materials that can be recycled and reused.

The European Directory 2002/96/CE concerning electric and electronic devices disposal (RAEE) obliges the separate collection of the electric and electronic devices from the mixed urban disposals, in order to recycle and reuse them. Do not mix electric and electronic devices with domestic garbage. The EU countries require specific collection services. Get informed about separate collection services in your area, for electric and electronic devices showing this symbol:



7 INSTALLATION

The operations related to lifting, transportation, installation, start-up maintenance and repair have to be carried out only by qualified personnel.

7.1 PRELIMINARY NOTES

Before installing the device, check the following points:

- Fix the device into its definitive position, using only the 4 holes on the side brackets. The device has to be placed in a location suitable to accommodate electronic equipment (**restricted-access**) and fixed onto a stiff surface.
- The device should not be placed near heat sources and electromagnetic interference sources, such as power cables or contactors etc...
- Make sure that the device is equipped with the EARTH protection wire, that has to be connected to the device through the foreseen cable, as shown in the electrical connections diagram.
- In the building's electric installation, there should be a device protecting from failures to EARTH.
- The device has to be supplied only with mains voltage 230V 50/60Hz or 12V DC. In case of 230V supply, make sure that a wiring switch is present. The device has to be protected against short circuits and over voltage. The wiring switch has to be opened before performing the connections.
- Follow and respect the indications on the electrical connections diagram, described in this Instruction Manual
- If the naked board is used VODAECO-18N (**V18N**), the installation in its definitive location has to be performed following all the rules foreseen by the norms about devices supplied 230V 50/60Hz.

7.2 PLACEMENT

Fix the **V18** on the top of the lift car and complete the electric connections, as explained below. The naked board of the **V18N**, can be placed in the electric panel in the lift car.

7.3 ELECTRIC CONNECTIONS

All the wires have to have a diameter not smaller than 1.5mm.

7.3.1 230V AC OR 12V DC

After having connected the power cable (no attention to polarity is required), in **JP1**, the same has to be blocked with a cable ties to the mechanical anchoring system provided on the side of the device. Take care that the power cable and the other cables are not exposed to rough edges and/or cutting edges.

7.3.2 LIFT CAR ALARM INPUT AND MICROPHONE

Connect the alarm button in **JP4** with a voltage contact. The voltage supply could come from the device itself or from an external source (range 6-30VDC). See figure 5 and 6.

When switched-on, the device automatically detects the normal status of this input and considers a different status as an alarm condition.

Connect the microphone in **JP4**. See figure 3.

The microphone must not be in direct contact with rigid and/or metallic parts.

7.3.3 PIT UNIT PENDING FROM LIFT CAR

The box of the pit unit is designed to pend under the lift car, supported by its cable.

Use a hose clamp to secure the cable, as in figure 4, to limit the load on the soldered terminals.

7.3.4 TELEPHONE LINE CONNECTION

The telephone input **LINE**, in **JP5**, is to be connected to the telephone line or to an extension of a telephone exchange.

ATTENTION: the analogic telephone lines have 50V tension, follow the connection diagram.

Proceed with a connection to earth (phone line), terminal block **1** of **JP5** (see figure 1).

ATTENTION: the failure of this connection compromises the good functioning of the device.

8 OPERATION

8.1 EMERGENCY CALL

8.1.1 VOCAL EMERGENCY CALL

Pressing any of the alarm push buttons (for the time set in Push-button alarm filter), the alarm call is activated.

The **V18** speaks in the lift car the message "Your alarm has been sent" and then starts with the telephone call sequence of the numbers **dedicated to the alarm button calls**.

A call is considered successful if the device stays in hands-free mode for at least 10".

NOTE: If no alarm button number is set (included the number for digital call), when the alarm button is pressed, the **V18** pronounces "No Phone Number". If the PSTN line is disconnected the **V18** pronounces "No Line".

The call sequence is repeated until a valid answer is obtained or the time set in *Alarm Timeout* elapses. If the line is free, 10 rings are performed, before considering the call failed. The device tries to call each number just once.

NOTE: It is advisable not to associate mobile phone numbers to technician 3 and 4. The answering machine might lead the V18 to consider the call as successful.

8.1.2 DIGITAL EMERGENCY CALL

During a call to a digital number, after having taken the line and dialled the number, the **V18** receives two acknowledgement (synchronizing) tones (1400 and 2300Hz frequencies), and then sends the alarm code², according to the selected digital protocol.

The digital receiver sends confirmation of reception with a pre-set tone (1400Hz frequency). After 3" the **V18** activates the hands-free mode allowing the trapped people to speak with the digital receiver.

If within 60" from the call, no confirming signal arrives, the call is considered failed. The **V18** tries to call the number of the emergency service unit for a max number of times equal to the parameter value: *Alarm attempts to central unit*

8.1.3 ENDING THE ALARM CALL

To correctly close a call with hands-free communication on:

- press 5 or #;
- wait for the *hands-free Time* to run out;
- hang up the phone;

8.1.4 TECHNICAL ASSISTANCE CALL

The technician that goes to the lift for an assistance intervention, can call the **V18** in any moment. The **V18** answers with the message "Insert key code, followed by hash key": the technician enters the **special intervention key 987#**.

In the lift car, the message "You'll be talking to the service very soon" is spoken and the technician can speak in hands-free with the passenger.

8.1.5 LIFT CAR ALARM FILTER

The alarms from lift car button are ignored if the emergency alarm inhibition input – **clean contact-JP4 IN2** is closed.

² The digital protocol alarm codes of the different messages are presented in a dedicated document that is delivered to the customer if requested.

The alarms from lift top and pit buttons are not inhibited.

After a first alarm call, successfully ended or not (even in absence of telephone numbers), the lift car alarm filter is disabled.

If the PSTN line is disconnected, after the message "No Line", the lift car alarm filter is disabled.

8.1.6 END OF ALARM SIGNALLING

Remotely or with the local phone, digit the key code 5555.

8.1.7 LED AND SIGNAL LIGHTS

The signal light outputs *alarm sent* and *alarm received*, supply 16V and a max of 30mA.

8.1.7.1 LED SIGNALS

LED	STATUS	BEHAVIOUR
DL1	Parameter configuration; line tones; remote call and hands-free on	On
DL2	Stand-by	flashing every 3"
	Vocal Message Recording	On
DL3	Lift car alarm button pressed	On until released
DL4	IN1 on	On
DL5	IN2 on	On
DL6	Top/Pit alarm button pressed	On until released

8.1.7.2 SENT ALARM LED AND LIGHT (SIGNAL)

LED	STATUS	BEHAVIOUR
DL1	Alarm Status	On
Al	Alarm	On, until entering in hands-free

8.1.7.3 RECEIVED ALARM LED AND LIGHT (SIGNAL)

LED	STATUS	BEHAVIOUR
DL1	Alarm Status	On in hands-free
DL2	Alarm Status	On
AR	Alarm	On in hands-free

8.1.7.4 HANDS-FREE COMMANDS

During the connection in hands-free, the keys of the phone assume the following functions:

1	Loudspeaker volume up	2 4BC	Sent alarm test (*)	3 QEF	Microphone volume up
4 OH	Loudspeaker volume down	5 JKL	End of call	6 MNO	Microphone volume down
7 PQRS	Open door (**)	8 TUV		9 WXYZ	Open gate (**)
*		0 CHER	Received alarm test (*)	#	End of call

(*) Available in **Device Test** mode only – see paragraph 9.3.10.1
(**) Available only with RL1 e RL2 mounted on the device (optional)

During the hands-free connection the communication in the engine room is inhibited. In case of remote call *Microphone volume* and *Loud speaker volume* are modified into hands-free mode. The volumes of the external loud speaking groups are modified locally.

8.1.8 NEW CALL FROM ALARM BUTTON

After at least 10" in hands-free connection, pressing again the lift car alarm button, the user can stop the on-going communication and try again the alarm call. After successfully finishing a call, the **V18** doesn't accept other alarm requests from from the alarm buttons for the *Anti-abuse Time*.

8.1.9 WAITING WHILE THE LINE IS BUSY

If pressing the alarm button, the phone line results in being busy, the free line tone is awaited, Every minute the message "ALARM" is anyway pronounced.

8.2 PERIODIC TEST CALLS

The test calls are to be considered successful if:

- **Towards a phone digital number:** The digital protocol is completed within 90" from the beginning of the call.
- **Towards a phone vocal number:** the receiver sends to the **V18** a DTMF of the button 5 or #.

8.2.1 SURVIVAL CALL

The **V18** periodically performs a call to communicate it is operating regularly. The signaling is sent to the numbers in the phone book set for this condition.

If the call doesn't end positively, the **V18** insists, during an hour, as many times as set in parameter "*Max survival call attempts*". The following survival test is performed according to the parameter *Survival Test*.

After the first operation hour, a survival test call is performed to signal the device has started functioning.

8.2.2 LOW BATTERY ALARM

The **V18** performs a low battery call when the battery tension goes under a certain level. The battery test is performed before a survival test, if at least 24 hours are passed from the switch-on of the device. The test is interrupted and put off for 25' if a more relevant request occurs (ex: alarm).

The low battery signalling is sent to the numbers set for this function. If the call doesn't end positively, the device skips to the following number in the phone book (for this function) and tries again for 5' (an attempt every minute ca.). Once this max time has e , or if the call ended successfully, the following low battery alarm, if still necessary, is put off to the next survival test.

8.3 AUXILIARY FUNCTIONS

8.3.1 LIFT CENTRAL UNIT ALARM SIGNALLING

The input **clean contact– JP4 IN1** is used to receive an alarm signal from the main electronic unit of the lift. If the input remains closed for at least 3", the device performs call to the set receivers. If a call doesn't end up positively, the **V18** skips to the next number in the phone book (dedicated to the lift central unit alarm). The **V18** tries again for 5'. After this max time, if the input is still active, after a survival test, a new electric panel alarm call sequence is carried out.

8.3.2 MAINTENANCE STATUS

Through the key code 7777, it's possible to disable the lift car filter alarm function. To reactivate the filter condition, use the key code 5555.

8.3.3 OUTPUT RELAY 1 AND RELAY 2 CONFIGURATION (OPTIONAL)

The two outputs can be configured, according to the parameter, as: sent alarm light, received alarm light, stairs alarm, door and/or gate opening. See figure 7.

8.3.4 INDUCTIVE-LOOP DEVICE CONNECTION

An Inductive Loop device can be connected to the **V18**, as shown in Figure 8.

8.3.5 LOUDSPEAKER CONNECTION WITH V18N

See Figure 8. In case the nude board is used (**V18N**), the loudspeaker has to be welded in JP3, paying attention to the polarity.

8.3.6 CONNECTING 2 V18 TO THE SAME LINE

Attribute to the **V18** consecutive numbers of key codes. The technical alarm number 3 and 4 are not to be used.

8.3.7 AUXILIARY TELEPHONE HANDSET OR EXTERNAL INTERPHONE UNIT

Connect the external hands-free units or the phone handsets to the **LOC** terminals of **JP5** (paying attention to the polarity), in parallel, to

communicate with the engine room or other places.

See figure 2.

Picking up the handset of the local phone, the hands-free communication with the lift car is automatically enabled. The hands-free connection is broken after 15' having the handset picked up. During the hands-free communication the survival, the alarm and the battery calls are suspended. The remote connection is not possible.

9 PROGRAMMING

The **V18** has a set of user-configurable options that can be easy programmed locally or remotely.

9.1 LOCAL PROGRAMMING

Connect a phone (DTMF) to the **LOC** terminals of **JP5**.

During local programming, any pressure on the alarm button is ignored. If the local programming has been going on longer than 5' from the last # key pressure, the **V18** automatically exits from the programming.

9.2 REMOTE PROGRAMMING

Call with a multi-frequency phone the line on which the **V18** is installed. The **V18** answers after the rings as set by installer.

9.3 OPTIONS CONFIGURATION

The configuration is fully guided by the **V18** synthesized voice and all the entered values are immediately read in hands-free.

The V18 devices are released from the manufacturer already configured according to the specifications provided by the COSTUMER.

It is possible to record all the vocal messages; generally it is recorded only the one with lift type and address.

9.3.1 ACCESSING THE CONFIGURATION

From the local phone or remotely, the **V18** answers with the message "Insert key code, followed by # key".

The default factory key code value is 111.

After the acoustic signal, digit on the phone keyboard the three code digits, followed by #. The **V18** hangs up if the entered code is wrong, or if more than 20" have passed.

If the key code is correct, the **V18** answers "Insert option code".

9.3.2 OPTIONS CODING

The option code is a number from 1 to 99 (special 4-digit option are foreseen) and it is to be dialed on the phone keyboard followed by #. If the dialed code is wrong, the **V18** answers "option error", and requests again "Insert option code". P identifies an editable parameter, M a vocal message and A an action.

9.3.3 CONSULTING AN OPTION

Insert the option code followed by #. The **V18** answers reading the option name and the value. An empty option is defined "absent". Pressing again the key # of the phone, the option is confirmed and the **V18** answers again "Insert option code".

Example:

```
INSERT OPTION CODE
(2) (6) (#) LOUDSPEAKER VOLUME 10
(#)INSERT OPTION CODE
```

9.3.4 INSERT OR EDIT AN OPTION

Simply insert the option code and then press #. The **V18** answers reading the option name and value; press the * key and the digits of the new value. Press # to finish.

The **V18** repeats the option name e his new value. Press # to confirm or * to enter a new one.

If after * no digit is selected, and # is pressed, the option value is cancelled or saved at its minimum.

Example:

```
INSERT OPTION CODE
(2) (1) (#) DEVICE CODE ABSENT
(*) (1) (2) (3) (4) (5) (6) (7) (#)
DEVICE CODE 1 2 3 4 5 6 7
(#)INSERT OPTION CODE
```

9.3.5 TELEPHONE BOOK NUMBERS

The telephone book is organized by call type. The first 3 positions are reserved for the numbers of the digital central unit. The positions from 4 to 7 are reserved for the vocal alarm numbers coming from alarm button.

The positions from 8 to 11 are reserved for survival and battery vocal calls.

To add some pauses between the DTMF digits, press *.

9.3.6 RECORDING A VOCAL MESSAGE

Insert the option code followed by the key #. The V18 answers reading the stored message followed by "Press * to store the information and 0 to terminate recording"; press the key * and record the new message, speaking at the phone.

Press the key 0 to finish.

The V18 repeats the new message. Press # to confirm or * to record again.

Example:

INSERT OPTION CODE

(2) (2) (#) "LIFT TYPE AND ADDRESS

PRESS * TO STORE THE INFORMATION AND 0 TO TERMINATE RECORDING"

(*) "ALARM TO HYDRAULIC LIFT IN 12, ROSSI STREET" (0)

"ALARM TO HYDRAULIC LIFT IN 12, ROSSI STREET"

(#) INSERT OPTION CODE

9.3.7 CONFIGURATION END

Insert the option code (9) (9) (#) or hang up the receiver.

If the configuration delay gets on, after the configuration end. The device doesn't answers to an incoming call for a time equal to the set value.

9.3.8 MAIN OPTIONS

The (P) identifies an editable parameter, (M) a vocal message and (A) an action.

0# (P): **Key Code**: 3 digits (default 111) to access the configuration

1# (P): **Digital Alarm Phone Number**: alarm managed by alarm button with digital protocol to central unit

2# (P): **Digital Survival Phone Number**: survival call managed with digital protocol to central unit

3# (P): **Digital Battery (Lift central unit) Phone Number**: Alarm battery (lift central unit) management with digital protocol to central unit

4# (P): **Voice Alarm Phone Number 1**: repeated reading of message 22. Confirmation with # required and call ending with 5 or #

5# (P): **Voice Alarm Phone Number 2**: repeated reading of message 22. Confirmation with # required and call ending with 5 or #

6# (P): **Voice Alarm Phone Number 3**: single reading of message 22. Automatic hands-free and call ending with 5 or #

7# (P): **Voice Alarm Phone Number 4**: single reading of message 22. Automatic hands-free and call ending with 5 or #

8# (P): **Voice Survival Phone Number 1**: repeated reading of both messages "SURVIVAL" and 22. Call ending with 5 or #.

9# (P): **Voice Survival Phone Number 2**: repeated reading of "SURVIVAL" message. Call ending with 5 or #.

10# (P): **Voice Battery (Plant alarm) Phone Number 1**: repeated reading of both messages "BATTERY ALARM" or "PLANT ALARM" and 22. Call ending with 5 or #.

11# (P): **Voice Battery (Plant alarm) Phone Number 2**: repeated reading of both messages "BATTERY ALARM" or "PLANT ALARM" message. Call ending with 5 or #.

20# (P): **Device Code**: identification code (4 or 6 digits). Default: "000000". 6 digits code if more than 4 are entered.

21# (P): **Device Number**: Device phone Number (max 15 digits).

22# (M 20"): **Lift Type and Address**: message for vocal alarm call.

23# (M 10"): **Your alarm has been sent**: message spoken in the lift car after pressing an alarm button.

24# (M 10"): **You will be talking to the service very soon**: message spoken in the lift car before calls from the technician.

25# (P): **Microphone Volume**: from 0 to 15 (default 6): Microphone Volume in hands-free

26# (P): **Loudspeaker Volume**: from 0 to 15 (default 10): Loudspeaker Volume in hands-free

9.3.9 SECONDARY OPTIONS

30# (P): **Survival test**: from 0 to 252 hours (default 70): time elapse between the survival calls (0=disabled)

31# (P): **Battery type**: from 0 to 1 (default 1); 0=no battery charge control; 1= 6V internal battery; 2=12V external battery

32# (P): **Alarm attempts to central unit**: from 1 to 20 (default 2): Attempts to call the central unit numbers before calling the technicians'.

41# (P): **Parameter 1** (Rings number): from 2 to 99 (default 4): number of rings before answering to the phone (99 to disable the answer).

42# (P): **Parameter 2** (Alarm Button Delay): from 0 to 5 seconds (default 0): delay before generating the alarm from the lift alarm button.

43# (P): **Parameter 3** (Alarm-Timeout): from 5 to 60 minutes (default 10): max duration of the alarm calls sequence.

44# (P): **Parameter 4** (Max rings for outgoing calls without answer): from 5 to 20 (default 10): number of rings before the following number is called.

45# (P): **Parameter 5** (hands-free time): from 1 to 20 minutes (default 5): max hands-free conversation time.

46# (P): **Parameter 6** (Anti-abuse-time): from 0 to 30 minutes (default 0): anti-abuse filter time.

47# (P): **Parameter 7** (Max survival call attempts): from 1 to 10 (default 3): it defines the max number of survival call attempts during 1 h time.

48# (P): **Parameter 8** (Microphone volume of the external unit): from 0 to 15 (default 7) Microphone volume of the hands-free external unit.

49# (P): **Parameter 9** (Loudspeaker volume of the external unit): from 0 to 15 (default 4) Loudspeaker volume of the hands-free external unit.

50# (P): **Parameter 10** (relay 1): from 0 to 2 (default 0) 0=in parallel with sent alarm lamp (always on); 1=open door/gate; 2=stairs alarm (5"ON, 10"OFF).

51# (P): **Parameter 11** (relay 2): from 0 to 2 (default 0) 0= in parallel with received alarm lamp (always on); 1= open door/gate; 2=stairs alarm (5"ON, 10"OFF).

52# (P): **Parameter 12** (Configuration Delay): from 0 to 20 minutes (default 0): delay time after the configuration, no answer to external calls.

53# (P): **Parameter 13** (Digital Protocol): from 0 to 4 (default 0): 0= Ademco Contact ID; 1= Scantronic 6-8-2 (50ms/50ms); 2= Scantronic 6-8-2 (100ms/100ms); 3= single Scantronic 6-8-2 (100ms/100ms); 4= STM (100ms/100ms).

54# (P): **Parameter 14** (Language of vocal messages and guiding voice): from 0 to 2 (default 0): 0=Italian; 1=English; 2=French.

55# (P): **Parameter 15** (country code): from 0 to 63 (default 63 = UE) country code for LINE adjustment (see Table ATTACHMENT A)

9.3.10 TEST OPTIONS

9.3.10.1 CONNECTIONS AND AUDIO TEST

80# (A): **Device Test**: connections and audio are tested; the hands-free mode is activated (see table at paragraph 8.1.7.4 HANDS-FREE COMMANDS) . To end the test mode and return to the configuration mode, simply press #.

9.3.10.2 ALARM BUTTON SIMULATION

81# (A): **Alarm Button test**: after 30" the V18 makes an alarm call.

Pressing the code 81 and, after that, a number from 1 to 4, it's possible to verify the single technicians alarm numbers stored in the address book.

Example: INSERT OPTION CODE 812#

The V18 starts with the alarm call sequence dialling the set telephone number in "Technician alarm 2".

9.3.10.3 BATTERY TENSION TEST

82# (A): **Battery Test**: to tele-reading in hands-free of the charge level. Example "ten" "point" "five", the tension is 10,5 Volt.

9.3.10.4 BATTERY ALARM SIMULATION

83# (A): **Low battery call test**: the V18, after 30", performs a low battery alarm call.

9.3.10.5 SURVIVAL CALL TEST

84# (A): **Survival call test**: the V18, after 30", performs a survival call test. From this call it starts counting for the survival delay.

9.3.10.6 LIFT CENTRAL UNIT TEST

85# (A): **lift central unit alarm test**: the V18 hangs up the line and after 30" performs an lift central unit alarm call.

9.3.11 SPECIAL CODES

9190# (A): it brings back all the parameters to the pre-set values. ATTENTION! ALL ENTERED DATA WILL GET LOST (except vocal messages)

9191# (A): it causes the hardware restart

9192# (A): it allows to delete all the phone numbers entered, re-enabling the default numbers.

9193# (A): it allows to delete all the modified audio messages and re-enables the original factory messages.

9194# (A): it allows to delete all the phone numbers, letting the phone book empty.

10 ANNEX A

The V18 foresees the possibility of adapting the phone line according to the specific restrictions of the different countries.

0 Argentina	21 Hungary	42 Portugal
1 Australia	22 Iceland	43 Romania
2 Austria	23 India	44 Russia
3 Belgium	24 Indonesia	45 Saudi Arabia
4 Brazil	25 Ireland	46 Senegal
5 Bulgaria	26 Israel	47 Singapore
6 Canada	27 Italy	48 Slovakia
7 Chile	28 Japan	49 Slovenia
8 China	29 Korea	50 South Africa
9 Colombia	30 Kuwait	51 Spain
10 Coratia	31 Lebanon	53 Sweden
11 Cyprus	32 Luxembourg	54 Switzerland
12 Czech Rep.	33 Malaysia	55 Taiwan
13 Denmark	34 Mexico	56 Thailand
14 Egypt	35 Morocco	57 Tunisia
15 Estonia	36 Netherlands	58 Turkey
16 Finland	37 NewZealand	59 U.K.
17 France	38 Norway	60 U.A.E.
18 Germany	39 Pakistan	61 Uruguay
19 Greece	40 Philippines	62 U.S.A.
20 Hong Kong	41 Poland	63 U.E. standard