ANEP BOX - TA EMERGENCY TELEPHONE FOR LIFTS

EMERGENCY TELEPHONE AND INTERCOM SYSTEM FOR LIFTS





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1 - TECHNICAL CHARACTERISTICS

1.1 - Technical characteristics

- Conformity to european standards EN81-28 and EN81-70*
- Integrated or displaced audio modules
- Triple audio possibility by adding BOX-SC or BOX-F or BOX SMIC modules
- Installed on car roof
- Analogue line powered
- DTMF dialling
- External power supply 12v if inductive loop or yellow and green indicators are connected
- Automatic answer
- Automatic or manuel calibration of volume of gains
- Installation identification
- Installation identification sent to ANEPCenter® or website anepanywhere.com
- Programmable by 12 key keypad
- 1 Input for call buton (No or NC)
- 1 dual fonction key : passenger trapped acknowledgement and test call to ANEP voice server (SVA)
- 1 key for technician alarm (roof)
- Up to 6 telephone numbers may be stored
- Automatic call of a 2nd number if the 1st is engaged or doesn't answer
- All parameteers are stored in non volatile memory (no battery)
- Periodic call (1,2, or 3 days)
- Programmable remotely via ANEPCenter®

1.2 - machine room Intercom and fireman until functionnality (Starting from version BTAOO_M)

This version allow ANEP BOX to be connected to the machine room intercom (BOX M) and thus, to manage the intercom function between machine room, the car, the car roof, the under cabin or also between the cabin and the main floor for fireman unit.

1.3 - Factory settings

 Access code : Call timeout: 	★ 1 2 3 3 minutes	
 Hang up : Periodic calls : 	Automatic 3 day	

* Specification EN81-28 Emergency alarm for new lifts since october 2003. Specification EN 81-70 security rules for the constructions and installation of lifts Part 70 ; accessibility to lifts for all people including the handicapped

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2 - <u>RECOMMANDATIONS</u>



before handling any ANEP products, ensure the equipement has been disconnected from all power supplies.

2.1 - Installation / Powering up

The performance of telephone line equipement largely depends upon the characteristics of the telephone line.

Particular care must be taken when cabling the phone line to avoid damaging the standard line characteristics.

Check cabling especially if they link several motor rooms.

- Type of cable,
- cable passage (Hight / Low voltage),
- Parasites (Ventilators, generators),
- Etc ...

it is essential to connect all peripheral units **BEFORE** connecting the phone line :

- Car alarm button.
- Car alarm panel.
- Under car audio unit
- PSU (if inductive loop a yellow / green leds)

2.2 - Traveling cables

We advise the use of a shielded traveling cable to ensure excellent audio quality and thus avoid disturbances with may lead to undesired effects.

3 - CAR ALARM FILTERING

• Alarm filtering is used to avoid false alarms cause by misuse or by accidental use.

To use car alarm filtering, the function " landing door open over pit " must be inhibited. (See 5.5.9)

- A voltage between 5 V & 230 V ac applied to the filter input inhibits car alarms.
- **3.1 -** Full alarm filtering EN81-28.

When using either **GEMINI** or **MERCURY**, the alarm filtering is compliant with the specification EN81-28.

The output of **GEMINI** or **MERCURY** simply needs to be connected to the input "DISCRI".



GÉMINI or MERCURY, additionals modules installed in machine room (see GÉMINI MERCURY Doc)

3.2 - Simple filtering

A simplified filtering system may be created by using an independant information for the car door open.

Note : Ensure that the car door cannot be opened automatically or manually between floors or else alarms will be filtered if the car is blocked between floors.

3.3 - Forced alarm

If alarm filtering is enabled, an alarm may still be forced if alarm button is pressed 4 times in a 15 minute period.

Each alarm button press must last longer than the programmed timeout and there must be at least 3 seconds between each press.

EXTERNA

OPEN

DOOR

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4 - ADDRESSING

Several ANEPBOX TA / F modules may be installed on the same telephone line (max 8). The address of EVERY module must be configured.

After entering the acces code to enter programming mode, enter the following sequences :

303 then 1 # if module 1 (lift 1) or

303 then 2 # if module 2 (lift 2) or ...

303 then 8 # if module 8 (lift 8) or

Note : Module = ANEP BOX - TA or ANEP BOX F

Configuration 1 - Alarm Technician in Pit with Box F

Telephone line (PSTN) Addressing to configure on the 4 BOX - TA and on the 4 BOX - F



5 - PROGRAMMING MODE





- Access to the programming mode is only possible if the phone line is hung up. (Beware if several modules share the same line)
- The ANEP BOX keypad is used to program all the parameters.
- To avoid unwanted modifications, the programming mode is protected by an access code : *123
- This code may be modified by the technician (1 to 7 digits) (see page 15)
- 5.1.1 Access to programming mode

Enter \star followed by the access code to enter programming mode

Example : using the factory default code

* 123

The unit play's a melody

... Then 2 beeps are made every 20 seconds

5.1.2 - Exit programming mode

when the unit has been programmed

😨 Press the key « 🛠 »

Finish programming, the unit plays a melody



Note : If no key is pressed for over 3 minutes, the unit will automatically exit the programming mode.

The unit play's a melody



1	2	3
4	5	6
7	8	9
*	0	#



5.2 GSM MODE

The GSM mode should be activated when ANEP BOX is connected to a GSM gateway. To activate this mode:

In programming mode:

Enter #405#

To come back to normal mode (PSTN)

In programming mode:

Enter #406#

5.2.1 - Managing Battery default on GSM PG1 gateway

PG1 gateway constantly supervises its battery. In case of default, PG1 gateway send the info to ANEP BOX TA. Accordingly, when GSM mode is activated, the master ANEP BOX TA controls the battery default of the gateway. After detection of this default, ANEP BOX generates a data call "GSM battery default start. After recharging or replacement of the battery, the Gateway sends an info to ANEP BOX TA, that generates a call "GSM Battery default end".

5.3 - Programming numbers

Note : 101 = Principal emergency call number

102 = Secondary emergency call number

5.3.1 - Programmaming memories 101/102

After entering the programming mode access code : exemple if memory 101

Enter the sequence « # 1 0 1 »

Enter the telephone number followed by the key « # »

5.3.2 - Programming a pause

When installed behind a PABX, a prefix and a pause may be necessary before getting a external line

To program a PAUSE (2 seconds), press the key « \bigstar »

Example : **Pause** after a prefix **0** (for memory 102)

102 0 * 0 1 4 5 6 9 2 8 0 0

Press the « # » key to validate the number

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2	3
5	6
8	9
0	#
	2 5 8 0

5.3.3 - Erase a number

GP Enter the sequence : « # » then, the memory number, then « # »

Example : Erase the number and memory 101



Note :

If no key is pressed for over 20 seconds, the unit plays a BEEP and returns to the start of the memory selection part of the programming mode.

- 5.4 Memory attribution
- 5.4.1 Transfer method

It's possible to program ANEP equipements according to the desired usage and the technology used by the alarm call center.

To communicate with call centers, ANEP unit can transfer their identity and establish a 2 - way voice communication either :

- In a single call,
- or two seperate call.

The recommanded method respecting the european specification is to make a single call (the delay time is optimised).

5.4.2 The table below shows the programming possibilities for a single call.

Telephone N°	Type of data	Type of communication	Call center
Memory # 101	Passenger and tech alarm	Data & audio	Main call center
Memory # 102	Passenger and tech alarm	Data & audio	Backup call center
Memory # 104	Lift fault MERCURY Landing door fault Remote end of alarm	Data	Main call center
Memory # 105	Periodic call	Data	Call center for periodics calls
Memory # 106	Alarm data and lift faults	Data	ANEPanywhere or client call center



If your call center uses two seperate calls method to receive an alarm, please contact us.

5.5 - Enabling and adjustment of parameters

5.5.1 - Alarm button validation time (default = 0.5 second)

In programming mode :

Enter sequence #3 0 2 # and the time 10ths of a second.



Followed by key « # »

Example : 4,5 second timeout

Search Enter the sequence # 302 45 #

5.5.2 - Acknowledgement of a trapped passenger (EN81-28)

When this function is enabled, an alarm call emitted by ANEP BOX must be acknowledged by the operator by entering the sequence " **#** " then " **1** " on his telephone keypad during the conversation.





If the acknowledgement is not made, then **ANEP BOX TA** will call back the center up to 6 times.

To enable this function,

In programming mode

Enter the sequence #202#

The acknowledge function is enabled (default value = disable)

To inhibit the call acknowledgement

Enter the sequence # 2 0 3 #

The acknowledge function is disabled.

5.5.3 - Conversation timeout

Conversation timeout from 1 to 99 minutes (factory default= 3 minutes)

In programming mode :

🕼 Enter the sequence : # 2 0 1 #



Then enter conversation timeout (from 1 to 99) followed by " # "

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5.5.4 - Adjusting speaker volume in car

The following adjustments may be adapted to local conditions to improve audio quality in the lift car.

After programming the necessary telephone numbers, make a call by pressing the alarm button in the car "

During the voice call :

1	2	3	()	Key " 6 " = +	Key " 9 " = -	Speaker volume
4	5	6		-		
7	8	9				
*	0	#	(B)	Key " 5 " = +	Key " 8 " = -	Microphone Gain

Pressing " 0 " forces the unit to hang up.

Pressing "1" will program the default volume and gain.



Modifications made manually, replace those previously made automatically

5.5.5 - Enabling periodic call

In programming mode :

Enter the sequence # 105

© Enter the phone number of the call center that is to receive the data, the call center must be equiped with a modem **FT2008**, **FT1010** or **FT4004** and the software **ANEPCENTER**[®] or any compatible service.

Press the key « # » (



A site file should have been created previously in the **ANEPCENTER®** (report to **ANEPCENTER®** instructions)

NOTE : During a periodic call, the real time clock in **ANEP BOX TA** is updated.

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5.5.6 - Test call period		
In programming mode:		
Enter the sequence #	301	
Enter the number of day	ys corresponding to the test call period	1, 2 or 3.
default value : 3 days	example : 2 days = # 301 2 #	\square
NOTE: When ANEP BOX TA le programmed, a periodic call h	eaves programming after the periodic on a made immediatly.	call, number has been
The speaker is activated durin	ng the call so the technician is aware o	f the communication.
5.5.7 - Listen to call identification	n code during transmission	
To inform the technician prese tone sequences sent by ANE	ent on site taht ANEP BOX is transmittir P BOX during the call identification and	ng it is possible to listen to the I durind dialling.
Note : Programming is inhibit	ed during a call.	
5.5.8 - Modification of access cod	e	
In programming mode :		
Search Enter the sequence #002		
Enter the new access	code (from 1 to 7 digits) then « # »	
Confirm the new access	s code (from 1 to 7 digits) then « # » (
It is very	important to remember the new co	de.
If lost the un	it must be returned to the manufa	acturer.
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5.5.9 - Managing the information "landing door open over pit":

This function is available since version BTA-G

This function transmits information to the call center to warn that the landing door is open without the car present. This information having been previously confirmed by a system specifically suited to analyse the landing doors.

The information "landing door open over pit" should be connected to the input DISCRI

A voltage (from 5v to 230v ac present on the imput DISCRI is the "normal state". If the voltage disappears, the state is in "Anormal"..



The security loop (landing doors) must never be connected to **ANEPBOX TA**.

To enable this function:

Program the information timeout "door open" (no voltage).

In programming mode,

()

Enter the sequence #305 followed by the time in minutes (from 1 to 9 9). Confirm with #.

The time to a return to a normal state is fixed at 2 minutes.

The data "landing door open over pit" start or end are transmitted to the call center (memory 104).

To disable this function:

Program the timeout "door open" to be 0 (default value).

Note: when this function is enabled, the car alarm filtering is disabled and MERCURY may no longer be connected.

5.5.10 Test 12v present

ANEPBOX test whether an external 12V supply is connected, the result is transmitted during the periodic call.

Memorization of the external 12v supply. The presence of the external 12v is tested and memorized when the number dedicated to periodic calls is programmed. (either via BOX keypad or remotely)

Transmission of 12 v missing:

If the 12v are not present when the periodic call is made, the code transmitted to the call center is "periodic call with fault". Otherwise, the code transmitted is simply "periodic call".

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5.5.11 Adjustment of gain in mahine room intercom and fireman unit module

As from version BTA00-2, it's possible to independantly **** the gains of the loudspeakers and the microphone used for the machine room intercom and fireman unit function.

These adjustments do not modify the adjustments done for traditionnak alarm.

Adjustment of microphone gain :

In programming mode :

Enter the sequence # 407

Followed by 1 to 15, then #

(1	= minimum	gain / 15 =	maximum	gain)
· ·		9		3,

Adjustment of loudspeaker gain

in programming mode :

Enter the sequence #408

followed by 1 to 15, then #

(1 = minimum gain / 15 = maximum gain)

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6 - OPERATION

6.1 - Car alarm test

press the alarm button in the car, ANEP BOX call the call center.
If call filtering is not enabled the network tones and dialling are audible.

Beeps are plays every 6 seconds during silence to indicate that the unit is still on-line

5

ATTENTION ! If the filtering import is used (See page 7)

- 6.2 Technician roof alarm
- Press the yellow alarm button on the **ANEP BOX** module.

network tones and dialling are audible.

Beeps are plays every 6 seconds during silence to indicate that the unit is still on-line

6.3 - Automatic hanging up (audio mode)

Hang up occurs **automatically** when the engaged signal is detected or if the call timeout is reached.

ANEP BOX plays a melody **10 seconds** before the end of the timeout period (see page 13).

6.4 - Call sequence

If the called number is engaged or doesn't answer after 10 rings, **ANEP BOX TA** calls the secondary phone number. Each phone number is called alternately six times maximum.

Direct call to an ordinary phone :

The microphone is enabled 6 seconds after the telephone answers. To disable this function insert a pause (*) in the called telephone number.

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6.5 Car speaker and microphone test:

In case of doubt, the functionality of the speaker and microphone in the lift may be tested remotely, via a request by the operator. This test allows to check both the speaker and microphone together.

During the test, a frequency of 1 khz is emitted by the speaker for 4 seconds, the microphone detects this frequency which will then be heard by the operator.

The test sequence is:

- Only one ANEP BOX TA is connected to the telephone line
- Dial the number of the line where the ANEP BOX is connected
- Wait for the box to answer
- Wait 3 seconds until a beep is heard
- (P Press the "6" key on the telephone keypad, the 1khz frequency should be audible. (note: the operator's telephone must be capable of sending DTMF tones)
 - Several ANEP BOX TA are connected to one telephone line
- Dial the number
- Wait for the answer of the master BOX
- Wait 3 seconds until a beep is heard
- If the test is for the master BOX, press the "6" key, •
- the 1khz frequency should be heard by the operator.
- If the test is for a secondary BOX, after the beep, enter a 2 digit sequence to select the •
- desired BOX (1st digit= BOX Module number (2to 8), 2nd digit will always be "1" for this test • 21,31,41,...) •
- After about 5 seconds, another beep should be heard.

Press the "6" key and the 1khz frequency should be heard. (P

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6.6 Remote alarm end

ANEP BOX TA integrates the possibility to end an alarm state remotely (EN81-28).

This function is requested by an operator in the call center using ANEPCENTER when passenger alarm call is not followed by an "end of alarm" call provoked by a technician on site.

The call center calls the BOX with an order to end the alarm state. The BOX calls back the call center to confirm the end of alarm.

This function is not possible if the telephone line of the BOX is outgoing only.

After receiving the order to end the alarm state, ANEPBOX generates a new call, the event label is "Alarm end requested remotely".

The call is sent to the call center module (memory 104).

Recap of the alarm cycles:

- Car alarm
- End of car alarm by action on BOX keypad
 End of car alarm requested remotely
- > start : car alarm/car alarm renewed
- > end : car alarm
- > start : end of car alarm requested remotely.

7 - CALL TO ANEP'S VOICE SERVER (SVA)

A Serveur Vocal ANEP TEST THE FUNCTIONING OF YOUR ANEP EQUIPEMENT SIMPLY AND IMMEDIATLY



The SVA allows to test the functionning and acoustic quality of the installation in a few seconds..

> voice server number (Free service except communications costs): 33 1.45.69.99.98

7.1 - Enable call to SVA

Enter the the access code to programming mode then press the SVA button.

Special case : Make a call to SVA from behind a PABX :

Pressing the "0" key at the end of the sequence means that the prefix "0" will be dialled before the SVA number.

Direct line :★ 1 2 3 (Factory code) « SVA » ★PABX. :★ 1 2 3 (Factory code) « SVA » 0

7.2 - Making the call to SVA

Start the call from the car, car roof or under car unit within two minutes of enabling the call to SVA.

ΑΝΕΡ ΒΟΧ - ΤΑ	



7.3 - Tests MADE

7.3.1 - Inductive loop check ANEP BOX (local)

- If the unit has an indutive loop front plate module connected, check that blue indicator light during the inductive loop test phrase.

- This test verifies the integrated magnetic field detection and the blue led.

A 1000 Hz signal is generated in the inductive loop only audible in the BOX SC speaker unit.

- 7.3.2 Telephone test
 - The tone is audible in **ANEP BOX**.
 - The flashing of the yellow led indicates the telephone line voltage

o 1 flash : low level line

- o 2 flash : Average level line
- o 3 flash : Hight level line
- 7.3.3 Yellow and green indicators test

- During dialing (number factory programmed), the green and yellow indicators flash alternately, then just the yellow indicator stays on.

- 7.3.4 Auido reception test
 - The dialing and data transmission are audible in the loud-speaker.
- 7.3.5 Connection to SVA

- The yellow ndicator turns off, the green indicator turns on and a vocal message announces the connection to SVA.

- 7.3.6 ANEP BOX serial number verification
 - The serial number of the unit is announced by the SVA.
- 7.3.7 Installation telephone number check
 - The telephone number of the caller announced by SVA.
- 7.3.8 Audio test

- A vocal message vocal can be recorded and played back immediately by the SVA so that the microphone and speaker of the unit are tested.

7.3.9 - End of test

The end of the test indicated by a series of beeps.

To perform another test, it is necessary to go through the SVA call enable procedure again

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8 - KEYPAD PROGRAMMING

8.1 - Recap of programming sequences

★ + <Access code > Enter programming mode

Enter & exit programming mode

* Exit programming mode

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#0,		Programming of parameters
#001#	Erasure parameters and phone numbers	<u>riogramming of paramotoro</u>
#002#	New acces code	
#1		Telephone numbers.
#101#	Main telephone number for alarm calls	
#102#	Secondary telephone number for alarm calls	
#103#	Call center telephone number to transfer data before voice	
#104#	Call center telephone number to transfer data after voice	
#105#	Telephone number for periodic calls	
#106#	lelephone number for internet server	
#2		Communication
#201#	Voice call timeout (1 à 99 in mins)	
#202#	Call acknowledge by operator function enabled	
#203#	Call acknowledge by operator function disabled	
#204#	Enabling full duplex mode in cabin	
#205#	Enabling full duplex with voice control	
#206#	Double calling mode (call to a caretaker) enabled	
#207#	Double calling mode (call to a caretaker) disabled	
#3		<u>Configuration</u>
#301#	lest call period (1,2 or 3 days)	
#302#	Alarm button recognition time (10 to 64 in 1/10 s)	
#303# #205 #	Module address (1008)	
#303#	Landing door input recognition timeout (0 to 99 mins)	
#4		Configuration
#403#	Line voltage low $(> = 20V)$	V
#404# #405 #	Line voltage normal ($> = 28V$)	
#405# #405 #	GSM disabled	
#403#	USIVI UISADIEU	

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