



ANEP BOX-C

PIT EMERGENCY TELEPHONE SYSTEM FOR LIFT

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1 TECHNICAL CHARACTERISTICS

1.1 - Technical characteristics

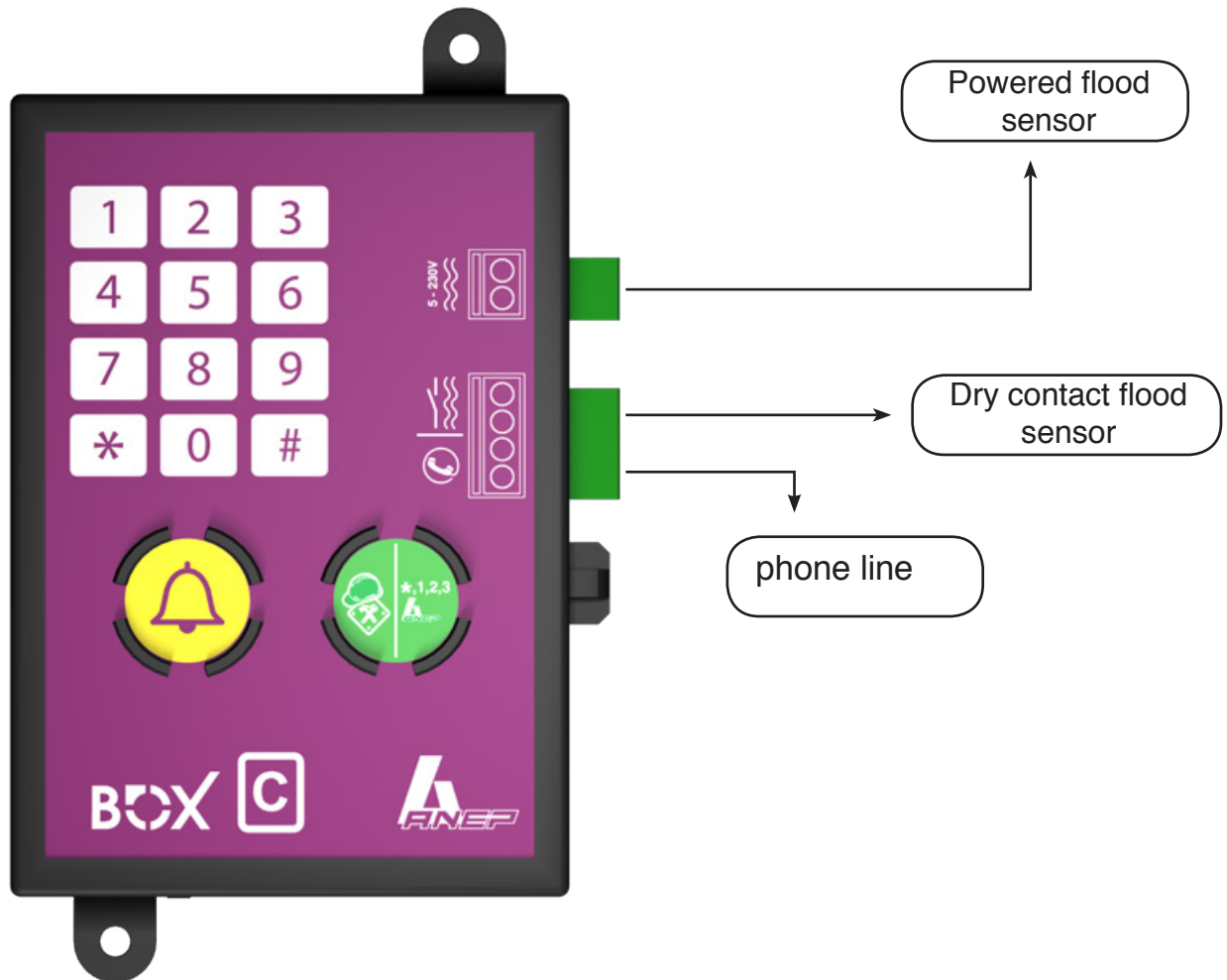
- Conforms to european standards **EN81-28** and **EN81-70***
- Voice module integrated
- Powered by analogue **phone line**.
- Multifrequency dialing
- Automatic Hook
- Automatic answer
- **Automatic** or **manual** calibration of volume and gains
- Recognition of the call location
- Installation identification sent to **ANEPCenter®** or website **anepanywhere.com**
- Programmable by 12 key keypad
- **2 inputs from the pit flooding detector**
- 1 dual fonction key : passenger trapped acknowledge and test call to **ANEP** voice server
- 1 key for technician alarm
- Up to **6 telephone numbers** may be stored
- Automatic calling of a 2nd number if the 1st is engaged or doesn't answer
- EEPROM memories without battery nor maintenance
- Programmable remotely via **ANEPCenter®**

1.2 - Factory settings

- Access code : *** 1 2 3**
- Call timeout : **3 minutes**
- Periodic calls : **3 jours**

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

1.3 - Connecting ANEP BOX-C module



2 RECOMMANDATIONS



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

The performance of telephone line equipment depends largely 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 (High / Low voltage),
- Parasites (Ventilators, generators),
- Etc ...

3 PROGRAMMING MODE

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



Important :

- Access to the programming mode is only possible if the phone line is hung up.
(Beware if several modules share the same line)
- The **BOX-C** keypad is used to program all the parameters.
- To avoid unwanted modifications, the programming mode is protected by an access code : *** 1 2 3**
- This code may be modified by the technician (1 to 7 digits) (See page 14)

3.1 - Enter programming mode

Enter * followed by the access code to enter programming mode

Example : using the factory default code

 * 1 2 3

The unit plays a melody



... Then 2 beeps are made every 20 seconds



3.1.1 - Exit programming mode

when the unit has been programmed

 Press the key « * »

Finish programming, the unit plays a melody



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

The unit plays a melody



3.1.2 - Addressing

Several **BOX-C** 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

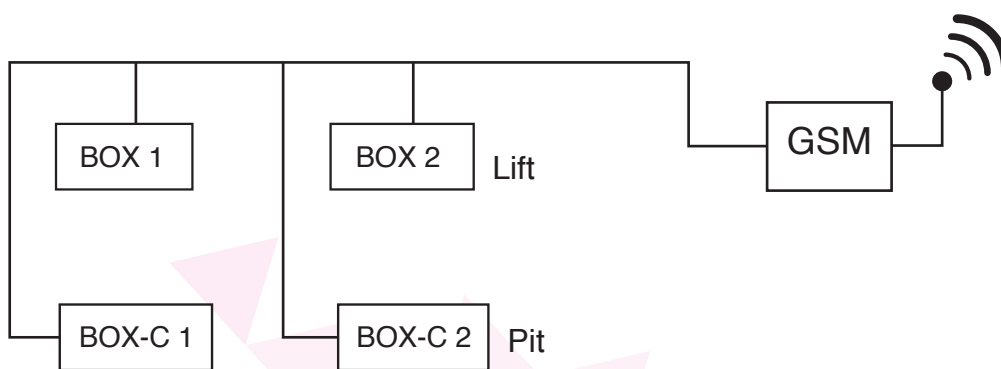
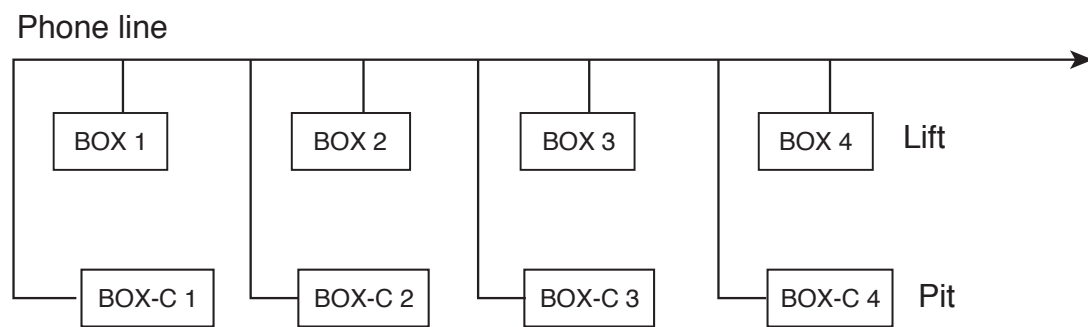
303 then 2 # if module 2 (lift 2) or

303 then 3 # if module 3 (lift 3) or

303 then 4 # if module 4 (lift 4).

Note : Module = ANEP BOX-C

Configuration example



3.1.3 - Simplified programming

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



BOX-C automatically detects whether the call button is NO or NC. It is therefore necessary to connect the call button **BEFORE** connecting inputs and the telephone line

KEYS	SEQUENCE	COMMENTS
*	Access code to enter programming mode	(Factory default : * 123)
#001#		Erasing of configuration and telephone numbers
#101	Telephone number + #	1 st Call center phone number
#102	Telephone number + #	2 nd Call center phone number
#103	Telephone number + #	3 rd Call center phone number
#104	Telephone number + #	Data
#105	Telephone number + #	Periodics calls
#303	Module number + #	n° module from 1 to 4
*	Exit programming mode	

FACTORY SETTINGS


- Access code to programming mode : * 1 2 3
- Call timeout : 3 minutes
- Hang up : Automatic
- Periodic test call : 3 days

3.2 - GSM mode

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


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

In programming mode:

 Enter the sequence **#405#**

To come back to normal mode (PSTN)

In programming mode:



 Enter the sequence **#406#**

3.3 - Programming numbers

NOTE : 101 = Principal emergency call number / 102 = Secondary emergency call number
103 = Third emergency call number

3.3.1 - Programmaming memories 101/102/103

In programming mode :
- example for the principle call number

 Enter the sequence « **# 1 0 1** » 

 Enter the telephone number followed by the key « **#** » 

3.3.2 - 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 « ***** »

Example : **Pause** after a prefix **0** (for memory 101)

 **# 101 0 * 0 1 4 5 6 9 2 8 0 0**

 press the « **#** » key to validate the number

3.3.3 - Erase a number

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

Example : Erase the number and memory **101** ☞ # **101** #

Nota : 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.

3.4 - Memory attribution

3.4.1 - Transfer method

The BOX-C may be programmed to interface with the call center, utilizing the available software and specifications.

To communicate with call centers, ANEP unit can transfer its ID information and establish a two-way voice communication either :

- In a single calls,
- or two separate call.

The recommended method (with respect to European specifications), is to make a single call (the delay time is optimized).

3.4.2 - Programming table 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 # 103	Passenger and tech alarm	Data & audio	Backup call center
Memory # 104	Remote end of alarm	Data	Main call center
Memory # 105	Periodic call	Data	Call center for periodics calls
Memory # 106	Alarm data	Data	ANEPanywhere or client call center

3.5 - Enabling and adjustment of parameters

3.5.1 - Conversation Timeout

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

En mode programmation :


 Enter the sequence : **# 2 0 1** 

Then enter the conversation timeout (from **1** to **99**) followed by « **#** »

3.5.2 - Listen to call identification

In programming mode :

 Enter the sequence **# 105** 

 Enter the phone number for receiving data by the central reception with a FT 2008 , FT 1001 or FT 4004 modem and software ANEPCENTER® or compatible frontal.

 Press the key « **#** » 


A «site record» must first be established in the software ANEPCENTER® (refer to the manual ANEPCENTER®)

During programming mode exit, BOX-C performs a periodic call immediately


NOTE: During cyclic call, the central (AnepCenter or compatible) receiving the call can reprogram the clock of the C-BOX.

3.5.3 - Cyclic test / Periodicity

In programming mode :

 Enter the sequence **# 301** 

 Dial the number of days for the periodicity of the cyclic call 1, 2 or 3.

Default: 3 days. example: 2 days = 301 # 2 # 

3.5.4 - Listen data transfer

To enable the technician working on the lift to know that the C-BOX module is in communication with a reception central, all data exchanges are audible (low level).

NOTE: access to the programming mode is not possible during a phone call.

3.5.5 - Changing the access code programming

In programming mode :

 Enter the sequence # 0 0 2



 Enter the new programming code (1 to 7 digits) and «#»



 Confirm new programming code (1 to 7 digits) and «#»



**It is important to carefully note the new code.
The loss of this code imposes the mandatory return of the unit at the factory.**

3.5.6 - Gain Setting in intercom machinery and firefighter modes

Ability to independently adjust the Speaker and microphone gains used for Intercom machinery and firefighter module modes.

These settings do not change the settings for the cabin alarm functions.

Microphone gain settings:

After entering the access code programming

Press the # 407



and a value of 1 to 15, then #



(1 = min / 15 = max gain)

Loudspeaker gain settings:

After entering the access code programming

Press the # 408



and a value of 1 to 15, then #



(1 = min / 15 = max gain)

3.5.7 - Configuration of the dual call mode

The dual call mode allows a call to a caretaker post (voice only), before making a call to the call center(data and voice). In addition, if the function « Acknowledgement of a trapped passenger call » is enabled, the caretaker will have to acknowledge the call by entering the sequence « #1 » on his phone keypad. Without this acknowledgment, **BOX-C** will call back to the call center up to 6 times.

Configuration of the dual call mode :

To configure the dual call mode, enter in programming mode and dial the sequence #206#

The « telephone » memories should be programmed as follows :

memory 101 : phone number of the caretaker
memory 102 : phone number of the call center

Sequence of an alarm call :

When the emergency elevator telephone button is pushed, **BOX-C** calls the number in memory 101 (caretaker).

Then it calls the number in memory 102 (call center).

If the number called by memory 101 (caretaker) or 102 (call center) is (are) busy, the corresponding numbers are called back up to 6 times.

Disabling dual call mode :

To disable the dual call mode, enter in programming mode and dial the sequence #207#

3.6 - Selection of communication protocol

3.6.1 - ANEP Protocol

Default protocol, or set by the following key sequence :

After entering the access code programming, press **# 200** then 0, then #.

3.6.2 - P100 Protocol

P100 protocol is set by the following key sequence :

After entering the access programming, press **# 200** then 1, then #.

3.7 - Adjusting the level of emissions of DTMF codes

Ability to adjust the transmission power DTMF codes to avoid echo phenomena when the **BOX-C** is connected to a GSM gateway.

By default power is set to -8 dBm.

After entering the access code programming

Press **# 409** then a value of N 0-12 then #

Power (dBm).

4 CONNECTING THE FLOOD SENSOR (OPTION)

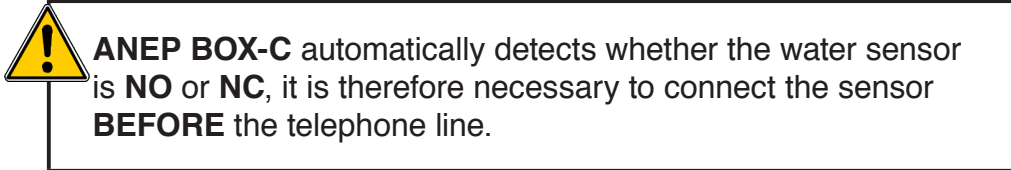
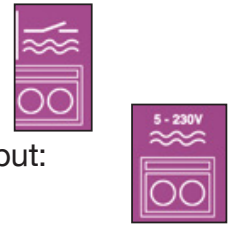
4.1 - Flood sensor input

ANEP BOX-C possesses a function which allows the detections of water in the pit. An optional kit consisting of a sensor and bracket may be connected to the corresponding input.

Two types of flood sensor can be connected:

- A flood sensor having a free dry contact potential to connect to the input :

- A flood sensor with a powered output (230V max) to be connected to the input:



4.2 - Flood sensor installation

The sensor may be NO or NC. The sensor (option) must be installed in the following way in the pit :

- The floaters at lower extremity above water level.
 - The connection and programming must be done in « ... » conditions, i.e. no water , condition « normal ».
- Water will be detected when floater rises (see diagram).


The start and the end of the event are transmitted to the call center (memory 104).

4.3 - Detection timeout

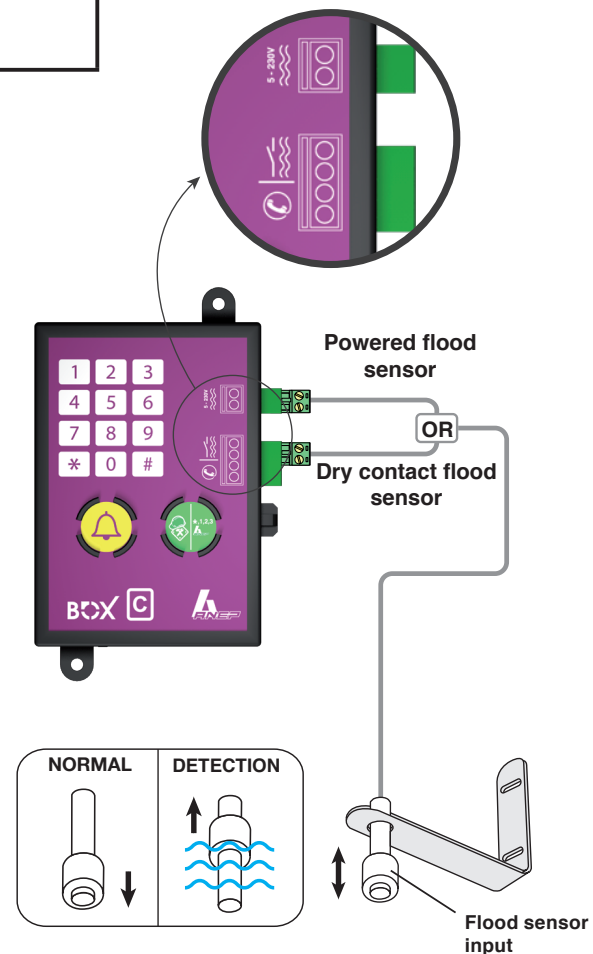
The time before the information is taken into account for the start and end of the event can be programmed between **1** to **99** minutes.

In programming mode :

- Enter the sequence « # » et « 3 » « 0 » « 2 » followed by the time in minutes (from 0 to 99 minutes)

The unit plays a melody 

Enable by pressing # when the timeout is **0**, then the event «**FLOOD**» is disabled



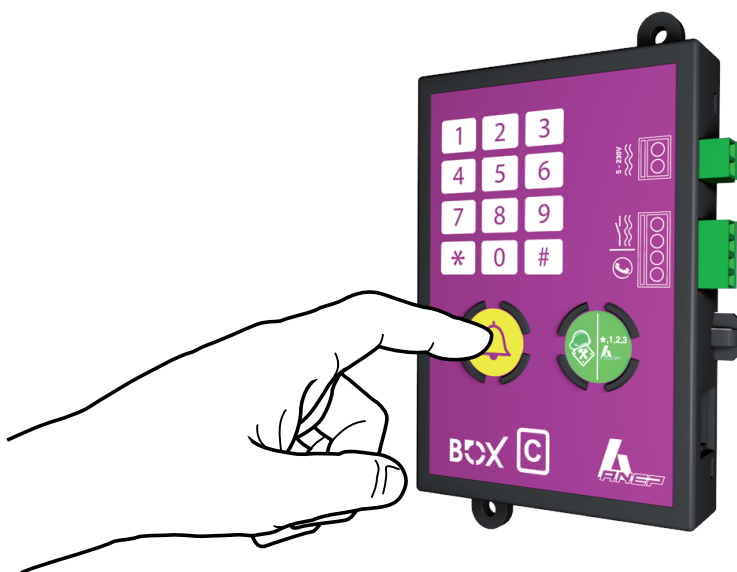
5 OPERATION

5.1 - Technician call from the pit

☞ Push the **BOX-C** alarm button.

ANEP BOX-C call the call center.

During silent periods, beeps are made every 6 seconds to indicate that the unit is still on line



5.2 - Automatically Hang Up (Voice mode)

The unit automatically Hang Up if an engaged signal is detected or if the call timeout is reached.

ANEP BOX-C plays a melody **10 seconds** before hanging up at the timeout limit.

Note : If the called number is eng.gd or does not answers = (**10 rings**), the unit calls the secondary telephone number in its memory. Each number is cllid alternately **6 lines** maximum.

6 CALL TO ANEP'S VOICE SERVER (SVA)



SVA *Serveur Vocal ANEP*

Testez le fonctionnement de votre équipement ANEP de manière **simple** et **immédiate** !

ANEP met à disposition des techniciens un serveur vocal. Celui-ci reconnaît le numéro de série de l'appareil et le numéro d'appel de la ligne téléphonique de l'ascenseur. Le **SVA** optimise la mise en service de nos produits, il mémorise et restitue sur l'appareil ANEP le message vocal que vient d'enregistrer le technicien.

Le SVA permettant ainsi de tester le fonctionnement et la qualité acoustique de l'équipement en quelques secondes.

Numéro du Serveur Vocal
(service gratuit, hors coût de communication) :

01.45.69.99.98

6.1 - Enable call to SVA

Enter the access code to programming mode then press the **SVA** button (green key).

Special case : make a call to SVA from 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** » then *****

FABX. : ***1 2 3** (Factory code) « **SVA** » puis **0**

6.2 - Making the call to SVA

Start the call from the car, car roof or under car unit within 2 minutes of enabling the call to **SVA**.



6.3 - Tests made

6.3.1 - Audio reception test

- The dialling and data transmission are audible in the loud-speaker.

6.3.2 - ANEP BOX-C serial number verification

- The serial number of the unit is announced by the SVA.

6.3.3 - Installation telephone number check

- The telephone number of the caller is announced by SVA.

6.3.4 - Audio test

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

6.3.5 - End of test

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

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

7 KEYPAD PROGRAMMING

Programming parameters

Enter & exit programming mode

- * + <Access code > Enter programming mode
- * Exit programming mode

#0...		<u>Programming of parameters</u>
#001#	Erasing parameters and phone numbers	
#002...#	New acces code	

#1...		<u>Telephone numbers.</u>
#101...#	Main telephone number for Emergency elevator telephone calls	
#102...#	Secondary telephone number for Emergency elevator telephone calls	
#103...#	Third telephone number for Emergency elevator telephone calls	
#104...#	Call center telephone number to transfer data after voice	
#105...#	Telephone number for periodic calls	
#106...#	Telephone number for internet server	

#2...		<u>Communication</u>
#200...#	Selection of communication protocol	
#201...#	Voice call timeout (1 to 99 minutes)	
#202#	Call acknowledge by operator function enabled	
#203#	Call acknowledge by operator function disabled	
#206#	Dual calling mode (call to a caretaker) enabled	
#207#	Dual calling mode (call to a caretaker) disabled	

#3...		<u>Configuration</u>
#301...#	Test call period (1,2 or 3 days)	
#302...#	Alarm button recognition time (10 to 64 in 1/10 s)	
#303...#	Module address (1 to 8)	

#4...		<u>Configuration</u>
#403#	Line voltage low ($\geq 20V$)	
#404#	Line voltage normal ($\geq 28V$)	
#405#	GSM enabled	
#406#	Analog phone line mode enabled	
#407...#	Microphone volume adjustment (De 1 à 15).	
#408...#	Loudspeaker volume ajustement(De 1 à 15).	
#409...#	Adjusting the level of emissions of DTMF codes	

NOTE

NOTES

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- D'une installation effectuée par un installateur non qualifié et non agréé par **ANEP**.
- De modifications ou réparations réalisées par des entités non agréés par **ANEP**.
- D'ouverture du produit par une personne non agréée **ANEP**.



IMPORTANT

Un soin et une rigueur tout particulier doivent être apportés au câblage et au branchement, afin d'obtenir les meilleurs résultats sonores et une fiabilité optimale du produit.

Le matériel doit être raccordé, installé et programmé dans les règles de l'art de la profession.



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