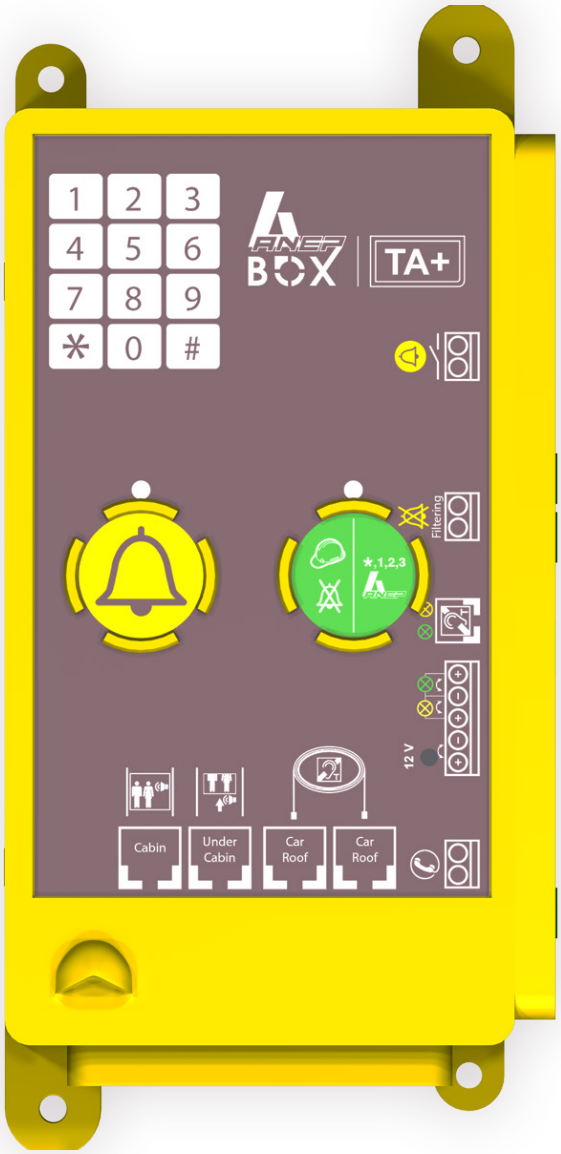
ANEP BOX TA+

LIFT REMOTE ALARM

UPGRADABLE MULTI-LIFT PHONE AND INTERCOM SYSTEM



www.anepstore.com

SUMMARY

RECOMMENDATIONS

This documentation is intended for professionals who are trained and experienced in the elevator industry.

Installation / Commissioning

Accordingly, when working on an elevator to install **ANEP** equipment, all safety regulations specific to the profession must be strictly observed.

- Use appropriate **P**ersonal **P**rotective **E**quipment (**PPE**).
- Isolate and lock out the installation before performing any electrical connections.
- **Ensure safe working conditions before intervening in the shaft.**

 **Before handling any ANEP equipment, make sure it has been powered off beforehand.**

This applies to all “ANEP BOX” equipment (TA, TA+, TX, TX+, etc.).

It is essential to connect all peripherals BEFORE connecting the telephone line:

- Car alarm button (NO or NC **dry contact**)
- Car operating panel (MIDIS) or speaker/microphone communication unit (BA-mini-GHP)
- Pit communication unit (BOX-SC)
- 230V / 12V backed-up and monitored power supply of type ANEP **ALIM-CONTROL II** (if equipped with an induction hearing loop and/or Yellow / Green indicators)

Traveling Cable

We recommend equipping the elevator with a shielded traveling cable to ensure excellent audio communication quality and to prevent any interference that could lead to malfunctions.
The proper operation of telephone equipment largely depends on the characteristics of the telephone line.

Particular care must be taken to ensure proper routing of the telephone line so as not to degrade its standardized technical characteristics.

Check the wiring carefully, especially if it connects several elevator machine rooms:

- Type of cable
- Cable routing (low-voltage / high-voltage separation)
- Sources of interference (HVAC systems, generators, etc.)

1 - GENERAL

1.1 - Technical Specifications

STANDARDS
- Compliant with European standards EN 81-28 and EN 81-70 (2018 / 2022).
- Compliant with European standard EN 81-70 (2003).
- Compliant with Directive 95/16/EC.
- Compliant with ETSI ES 203 021-1 v2.1.1 (2005-06).

INSTALLATION LOCATIONS
- Mounted on the car roof.
- Installation in passenger lifts, goods lifts, lifting platforms, etc.

ALARM FUNCTIONS
- Integrated or remote voice modules.
- Three-way communication (triphony) function with the addition of **BOX-SC** or **BOX-C** modules.
- Car alarm discrimination.
- Trapped passenger alarm acknowledgment.
- Voice modules in the car and under the car.
- Technician alarm on car roof.
- Dual call to two recipients.
- Volume and acoustic adjustment (local or remote).

POWER SUPPLY
- Line-powered for voice calls.
- 12V supply: for the induction loop (BIM), yellow/green indicators, voice synthesis programming assistance (available in five languages), and location message recorder.

TELEPHONE NETWORK
- Connection to an analog telephone line or GSM gateway (connection via private branch exchange possible).
- Triphony tele-alarm function backed up via the telephone line (line-powered tele-alarm).
- Automatic call answering.

FEATURES
- Call location identification.
- Programming via **ANEPmobile** or **ANEPprogramming**.
- 1 input from the car alarm button (NO or NC).
- 1 green button integrating three functions: trapped passenger alarm acknowledgment, technician arrival and departure, and test call to **the ANEP voice server (SVA)**.
- 1 yellow technician alarm button (car roof).
- Address playback via the **BOX TA+** recorder.

TELEPHONE NUMBERS
- 6 programmable telephone number memories.
- One backup voice number if the primary number fails.
- Dual call management.
- Periodic test (1, 2, or 3 days).

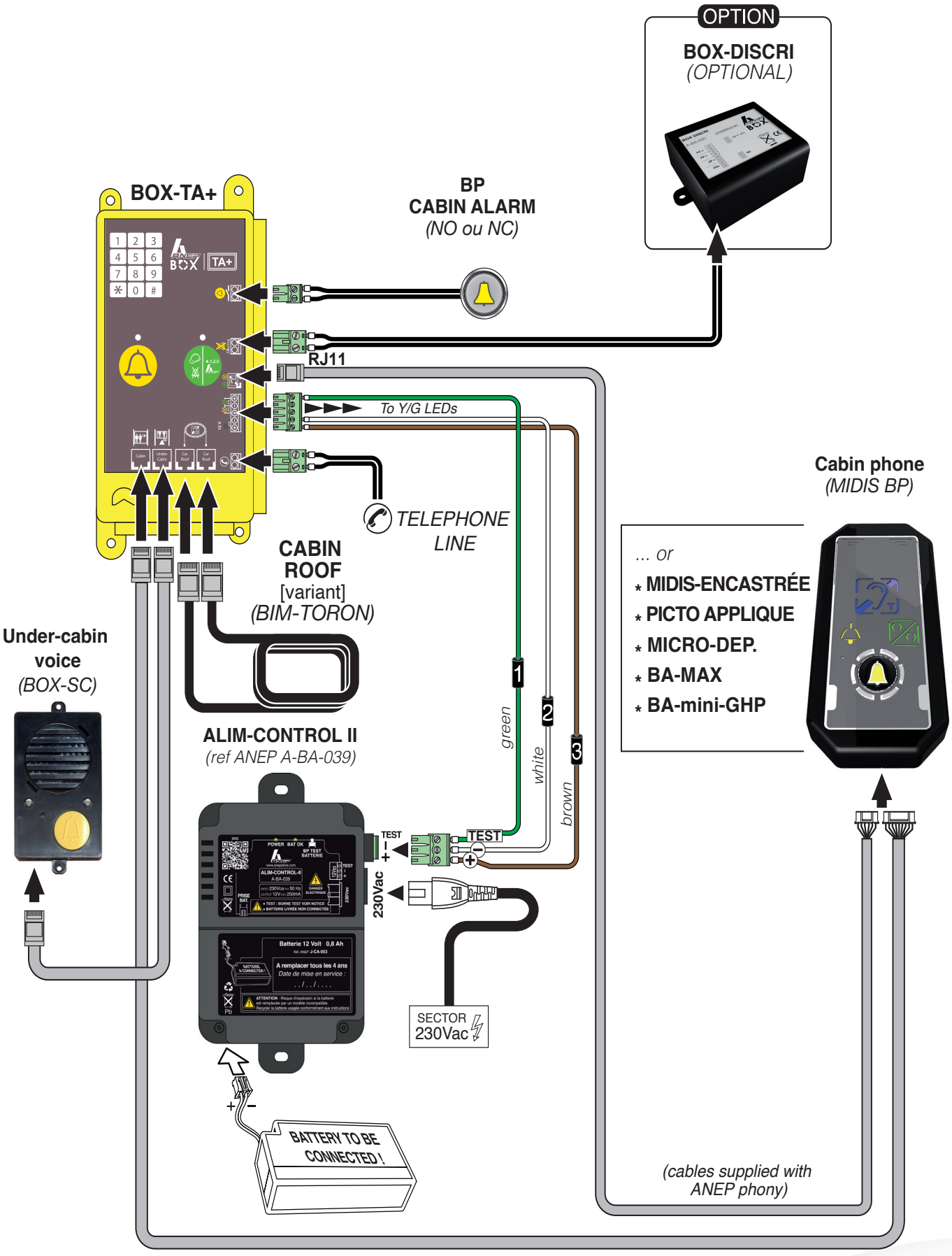
EXTENSIONS
- Main landing-to-car communication by adding the **INTER-CAN** system *(current NF P 82-207:2018 standard)*
- Main landing-to-car communication by adding the **IPH-CAN** module *(current NF P 82-207:2018 standard)*

STANDALONE FIREFIGHTER INTERCOM SYSTEM
- Machine room-to-shaft intercom by adding the **BOX-M** module *(former NF P 82-207:1976 standard)*
- Main landing-to-car communication by adding the **CARRÉ POMPIER** module *(former NF P 82-207:1976 standard)*

Factory Configuration

• Programming code :	✱123
• Communication duration :	3 minutes
• Call termination :	Automatic
• Periodic test interval :	3 days

1.2 - Connection of module ANEP BOX TA+



It is essential to connect all peripherals first, THEN connect the telephone line, and FINALLY connect the +12 V power supply, if present.

2 - FUNCTIONS

2.1 - Interactive keypad

When the technician programs the **BOX TA+** module using the keypad, to confirm the activation of the keys, the module reads out the key pressed as follows:

0 = Zero / 1 = One / 2 = Two / 3 = Three / 4 = Four / 5 = Five / 6 = Six / 7 = Seven / 8 = Eight / 9 = Nine

∗ = Star # = Hash

Since 12V electrical supply is required to run the voice synthesis system, beeps will be heard if the supply fails.

2.2 - Choice of telephone network

The **BOX TA+** module uses a telephone network to transmit alarms to a monitoring center.
For proper operation of the equipment, it is important to specify the type of network used from the following options :

- Switched telephone network (analog)
- GSM gateway
- PABX mode

The choice of network acts on the following functions :

- GSM gateway battery charge status information (available only with PGU, P4GU, or PGA models)
- Phone control of loudspeaker and microphone
- Securing of data transfer to a central reception center

The PABX mode allows the **BOX TA+** module to operate with most PABXs although this does not guarantee that it will function with all PABXs on the market.

This mode allows the following :

- Dialling with line rest voltage between 20 and 28V
- Automatic response if the bell stream exceeds 400 m/s

The **BOX TA+** module is compatible by default with the various European analog telephone networks (PSTN). Only the United Kingdom (UK) requires specific programming of the **BOX TA+** module.

2.3 - Car alarm

2.3.1 - Alarm and multilingual messages

When a user trapped in a lift car presses the alarm, the **BOX TA+** module announces an audio message to indicate that the alarm has been acknowledged and reassure the user before setting up communication with the call center operator.

This synthesised voice audio message is available in five languages.
At the time of programming, it is possible to select several languages or activate a repetition mode.

List of available languages :

LANGUAGES	MESSAGES
French	Votre appel est enregistré, veuillez patienter
German	Ihr Notruf wurde entgegengenommen. Bitte haben Sie einen Moment Geduld
English	Call in progress. Please wait
Italian	è stata registrata la sua chiamata. La preghiamo di pazientare
Flemish	Uw oproep is geregistreerd,even gedultd aub

Factory settings: Message in French

2.3.2 - Discrimination of car alarm

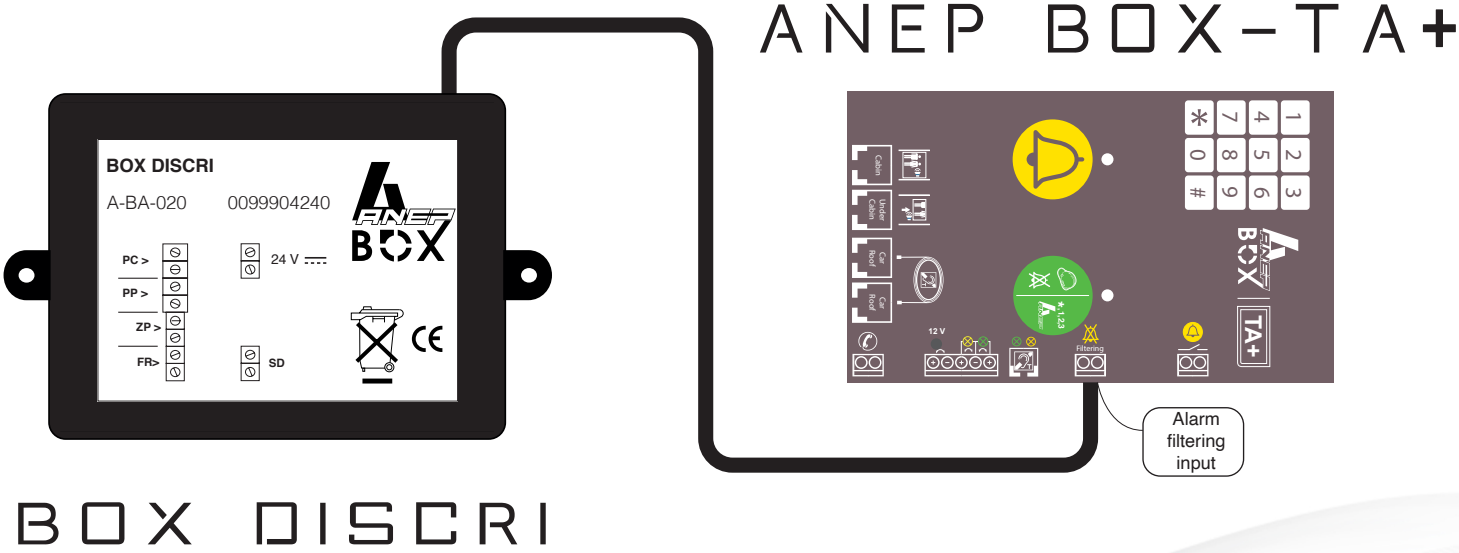
Discrimination of alarms is used to avoid the car alarms being activated unnecessarily, further to improper use or vandalism.

5V to 230Vdc maximum voltage applied to the input – Filtering – of the **BOX TA+** module invalidates the triggering of any car alarms.

Nota : The discrimination function is performed only if alarm termination has been performed locally or remotely.

2.3.3 - Discrimination according to standard EN81-28

With additional module BOX DISCRI installed in the control unit, the discrimination analysis complies with standard EN81.28.

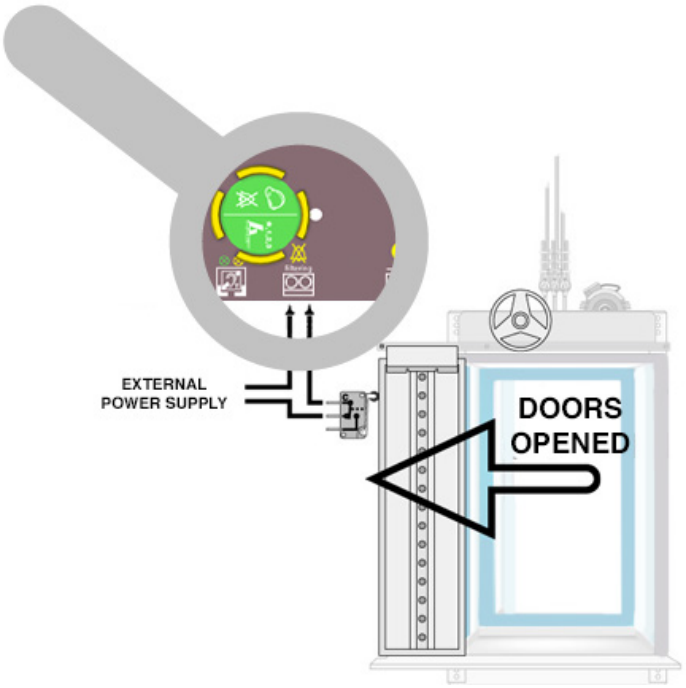


2.3.4 - Simple discrimination

It is possible to set up simplified discrimination using autonomous information about completion of car door opening.

NOTE: Ensure that the car door cannot be opened automatically or manually.

If the car is blocked between floors and the user manually forces the car door open, the alarm will be discriminated.



2.3.5 - Forced Alarm (Entrapped Passenger Safety) (EN 81-28:2022 Standard)

When no car alarm is in progress and alarm discrimination is enabled, the car alarm can still be triggered by pressing and holding the alarm button for the programmed delay time **(see table on page 32)**

2.3.6 - Setting sound levels

Depending on local building configurations, it is possible to adapt the sound levels and the microphone/loudspeaker switch between three alarm points of the **BOX TA+** module (on the car, in the car, under the car.)

Setting is performed using the **BOX TA+** keypad during voice communication.

2.3.7 - Communication in alarm mode

When the alarm is triggered, the communication time can be adjusted. Conversation time is adjustable between 1 and 99 minutes (factory setting is 3 minutes).

A long period of voice communication may disrupt the call cycle of the different telephone numbers:

- In case of double calls,
- Upon completion of messaging with the programmed acknowledgement mode

2.3.8 - Alarm bell

The triggering of the “alarm bell”, which is integrated into the **BOX TA+** module, is activated as follows:

- After triggering of the alarm (programmable),
- When the call is not answered, at the end of the cycle of call attempts,
- Immediately at the time the alarm is triggered after detection of low voltage on the telephone line (voltage under 28 Volts), which indicates a fault on the telephone line or that another BOX using the same telephone line is currently being used.

Activation time is 6 seconds and the loudspeaker selected is the one integrated in the **BOX TA+** module (the roof of the car). This function requires the presence of 12V of direct current to the **BOX TA+** module.

2.3.9 - Operator acknowledgement

When this function is validated, the alarm must be acknowledged by the reception center operator, who must enter the sequence « **#1** » on the dial pad of the telephone during the voice communication.

If this acknowledgement operation is not performed, all the programmed telephone number cycles will be completed

2.3.10 – Recording of voice localisation module

The **BOX TA+** module includes a recognition function for the location of the call by dissemination of a pre-recorded message, allowing localisation by address and identification of the lift.

During voice communication with the person trapped in the car and the rescue center upon request from the operator, the **BOX TA+** module reads the pre-recorded message, thus identifying the origin of the emergency call.

NOTE: For the message to be announced, the call has to arrive at the operator directly without being processed by an alarm receiver.

2.3.11 - End of alarm

Locally:

The end of the car alarm is only possible if a car alarm has been triggered beforehand. When the technician presses the green button on the **BOX TA+** module, an end-of-alarm message is generated.

Remotely:

ANEP **BOX TA+** includes an “end-of-alarm” function which is triggered remotely (Standard **EN81-28**).

The order is given by the operator at the call center via ANEPCenter when a “user trapped in car” alarm is not followed by an “end-of-alarm” by the technician on site.

The call center contacts **BOX TA+** to give instructions to close the user alarm. The **BOX TA+** module calls back the center to inform it of the “proper” execution of the instruction, thereby ensuring the complete operational chain of the alarm has been respected.

This function cannot be completed if the telephone line of the ANEP **BOX TA+** is call-out only.

Having received this order from the ANEPCenter, the BOX generates a new call referred to as: “*Emergency: End-of-Alarm triggered remotely*”

The call is sent to the Call Reception Center (Telephone memory n° 104).

2.4 - Periodical Calls

In compliance with **EN81-28**, the **BOX TA+** module performs an automatic periodic test (adjustable from 1 to a maximum of 3 days), thereby ensuring the proper operation of the emergency call system.

2.5 - Listening to data transfer

To allow the technician working on the elevator to know that the **BOX TA+** module is communicating with a monitoring center, all data exchanges are audible (low level) through the speaker of the **BOX TA+** module.

IMPORTANT : No action is possible during programming on the keypad of the **BOX TA+** module during the communication phase.

2.6 - Automatic hang-up

Upon alarm:

The call is hung-up automatically when the telephone line is detected as busy, or upon completion of the communication time.

The **BOX TA+** module emits a melody 10 seconds before the end of the communication.

On data transfer:

The call is hung-up automatically at the end of the data exchange.

2.7 - 12V and Battery control

If an **ALIM-CONTROL II** is installed and the 12 V monitoring function is enabled:

-A fault is reported after a voltage below 8 V is detected for 10 minutes.
-Fault clearance is reported after a voltage above 8 V is detected for 10 minutes.

If **another type of power supply** is installed and the 12 V monitoring function is enabled:

-A fault is reported after the 12 V supply has been absent for 10 minutes.
-Fault clearance is reported after the 12 V supply has been present for 10 minutes.

By default, the 12 V monitoring function is enabled.

Battery Monitoring (with **ALIM-CONTROL II**)

During the periodic test call, the ANEP **BOX TA+** module checks for the presence of the 12 V supply or the battery, if an **ALIM-CONTROL II** is connected.

If no voltage is detected, a «**Daily Call with Fault**» is transmitted.
Otherwise, a standard «**Periodic Test**» daily call is transmitted.

2.8 - Battery Monitoring for GSM gateway Models ANEP

The P4GU VoLTE and PGA VoIP gateways continuously monitor their battery status. In the event of a fault, the information is transmitted to the connected **BOX TA+** module.

Once the fault has been detected, the **BOX TA+** module generates a call with the following title : «GSM Battery Fault Appearance».

After recharging or replacing the battery, the P4GU VoLTE or PGA VoIP gateway informs the **BOX TA+** module, which generates a call with the following title : « Disappearing GSM battery fault »

NOTE: 2G technologies (models PG1, PG2 and PGU) and 3G (P3GU) will soon be phased out and are no longer recommended for new installations.

2.9 - P100 Protocol

By default, the ANEP data transmission protocol is enabled (alarm location identification, date, time, cyclic test, faults, etc.).

It is possible to configure the **BOX TA+** module to transmit this data using the simplified P100 protocol format, allowing reception by a monitoring center equipped with this protocol.

2.10 - Fire service machine room intercom

The **BOX TA+** module can be combined with a BOX-M module, to add the intercom function between the machine room and the car.

The rooftop module and the car phone module then become intercom points, without requiring any modification to car equipment.

3 - INSTALLATION

Before any handling of ANEP devices, ensure that the equipment is powered down.

3.1 - Prerequisites before start-up

The functioning of telephone equipment depends primarily on the characteristics of the telephone line.

Particular care must be given to the cabling of the telephone line, to avoid degrading the standard technical characteristics.

It is essential to connect all peripherals first, then connect the telephone line, and FINALLY connect the +12 V power supply, if present:

3.2 - Installation Steps

Check the wiring carefully, especially if it connects several elevator machine rooms:

1. Cable type
2. Cable routing (low-voltage / high-voltage separation)
3. Sources of interference (HVAC systems, generators, etc.)
4. Car alarm button
5. Car operating panel
6. Under-car communication unit
7. Telephone line (after 3 seconds, the **BOX TA+** module emits one or more initialization beeps, depending on the module number)
8. 12 V backed-up power supply (if an induction hearing loop and Yellow / Green indicators are used)

3.3 - Hanging cable

We would advise you to equip the lift with a shielded hanging cable to ensure excellent telephone quality and to avoid any disruption, which may lead to dysfunctions.

3.4 - Installation/Connections

The **BOX TA+** module is installed (fixed with 4 screws) on the roof of the lift car, and must be connected to the different peripheral modules according to the required options.

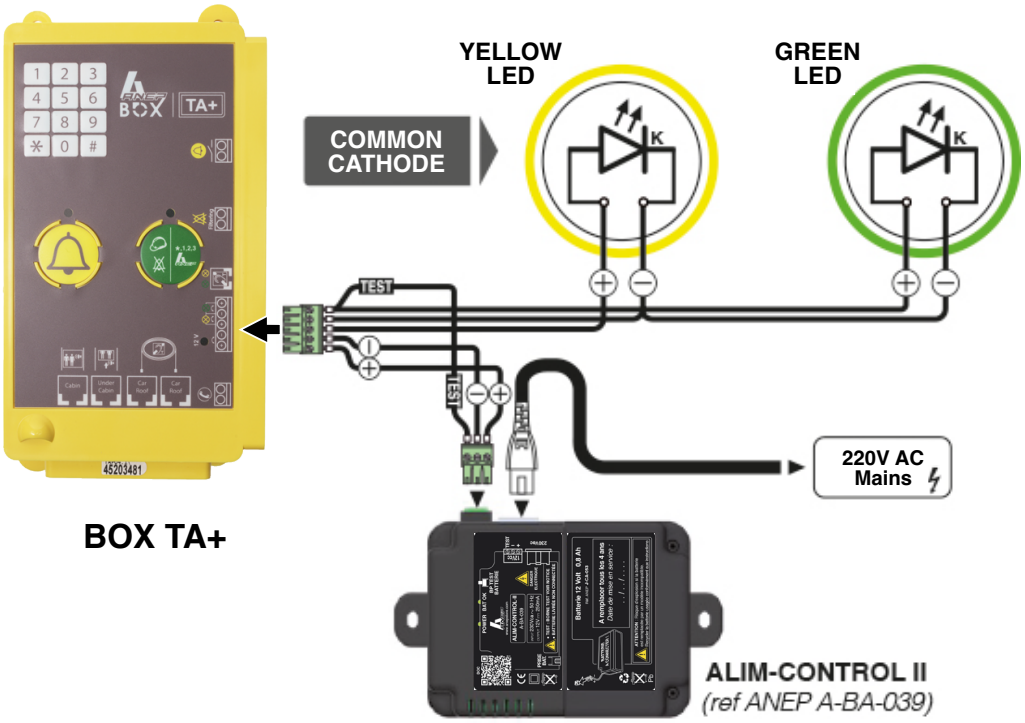
- Car telephone system (Faceplate or remote module),
- Yellow/Green pictograms
- Magnetic loop
- Telephone system under car
- 12Vdc supply
- BOX-DISCRI
- Telephone network

4 - YELLOW / GREEN INDICATOR CONNECTION (if MIDIS not present)

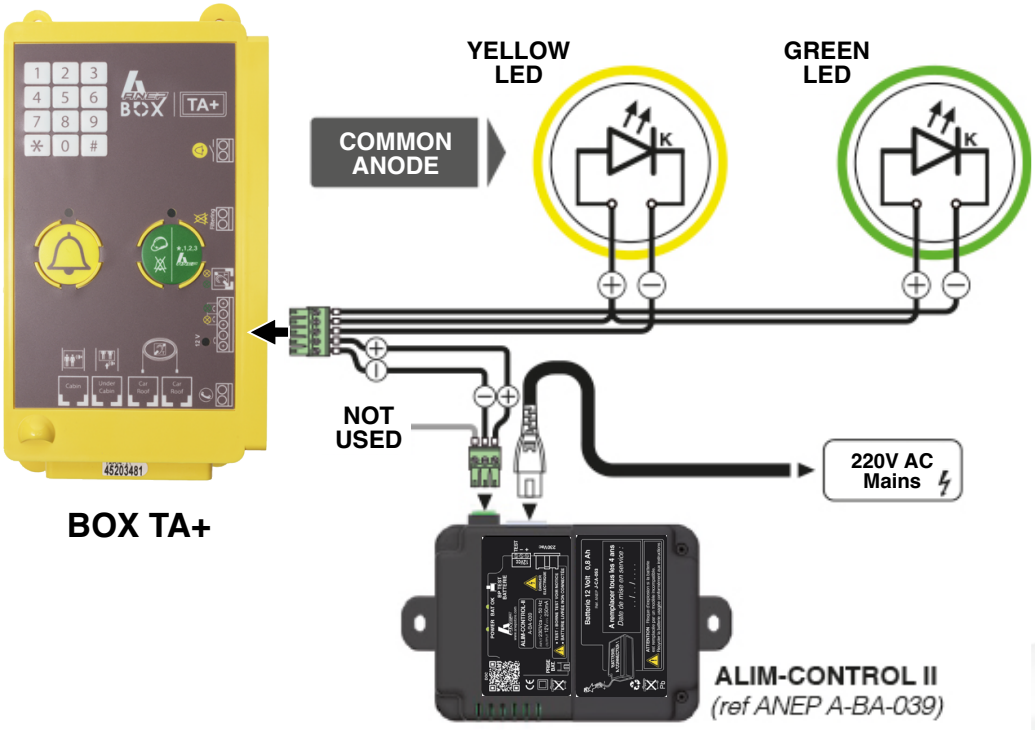
- Connect the LEDs used in the cabin according to **NF EN 81-28 (2003 or 2022)** and **EN 81-70** standards (**12V DC / 140 mA max per LED**).
- Connect a **12V DC power supply** (9 to 15V DC) of type **ALIM-CONTROL II**.

Do not make this connection if a MIDIS voice communication system is used.

Common cathode indicator lights



Common anode indicator lights



4.1 - Programming of Yellow & Green LEDs according to EN81-28 standards (2003 or 2022)

After entering the programming access code :

☞ Depending on the standard selected for indicator management, press the following keys in sequence: **# 417 #, # 418 #, or # 419 #**

STANDARD EN81-70 2003	**OFF ●**	**OFF ●**	Device in standby / NORMAL MODE	**# 417 #**
	ON ✻	**OFF ●**	Alarm activated, call in progress	
	OFF ●	**ON ✻**	In communication with a call center operator	
	OFF ●	**OFF ●**	Communication ended, line released, alarm acknowledged (remotely or on-site)	

STANDARD EN81-28 2022	**OFF ●**	**OFF ●**	Device in standby / NORMAL MODE	**# 418 #**
	ON ✻	**OFF ●**	Alarm activated, call in progress	
	ON ✻	**ON ✻**	In communication with a call center operator	
	ON ✻	**OFF ●**	Communication ended, line released	
	OFF ●	**OFF ●**	**Alarm acknowledged** (remotely or on-site)	
	FLASHING ✻◖✻◖	**FLASHING** ◖✻◖✻	Periodic test failure	

STANDARD EN81-28 2022 **YELLOW OFF**	**OFF ●**	**OFF ●**	Device in standby / NORMAL MODE	**# 419 #**
	ON ✻	**OFF ●**	Alarm activated, call in progress	
	ON ✻	**ON ✻**	In communication with a call center operator	
	OFF ●	**OFF ●**	Communication ended, line released	
	OFF ●	**OFF ●**	**Alarm acknowledged** (remotely or on-site)	
	FLASHING ✻◖✻◖	**FLASHING** ◖✻◖✻	Periodic test failure	

Programming via ANEP BOX Keypad

After enabling programming access mode by entering ✻123 :	
# 417 #	Validates Yellow and Green LED behavior according to **EN81-70 (2003)**
# 418 #	Validates Yellow and Green LED behavior according to **EN81-28 (2022)**
# 419 #	Validates Yellow and Green LED behavior according to **EN81-28 (2022)**, with Yellow **LED OFF** after communication (end of alarm)

5 - PROGRAMMING

All the peripherals of the ANEP **BOX TA+** module must be connected before accessing programming mode. (Electrical supply, telephone line, Yellow/Green pictograms, magnetic loop, alarm button, discrimination, car Faceplate, under car module, etc.)

Grouping on the shared telephone line.
All the ANEP **BOX TA+** and **ANEP BOX C** connected to the same telephone line must be in hang-up mode to allow access to the programming mode.

5.1 - Factory settings

The ANEP **BOX TA+** module is delivered with settings referred to as “Factory Setting” :

PARAMETER	Factory Configuration
Reset to factory settings	#001#
Programming access code	∗123
Communication duration	3 minutes
Hang-up	Automatic
Periodic test call interval	3 days
Transmitter number	Factory serial number (8 digits, see label on the enclosure)
Module number	1
Telephone numbers	Not programmed (empty memory)
Telephone network	Analog telephone line (PSTN)
Car alarm button delay	0.5 second
Car alarm button delay with BOX-DISCRI	25 seconds
Operator acknowledgement	Disabled
Yellow / Green indicator management	2003 or 2022 Standard

5.2 - Programming mode

IMPORTANT

All programming of BOX TA+ module parameters requires activation of the program access code, except when programming the transmitter number (cf. chapter 5.4)

5.2.1 - Access to programming

Using the ANEP **BOX TA+** module keypad, press the following keys :

∗123 : The device emits a melody

5.2.2 - Exit programming mode

Having completed programming of the device

Press « ✱ »

At the end of programming, the device emits a melody 

NB: If no keypad key is activated for 3 minutes, the device exits the programming mode.

the device emits a melody 

5.2.3 - Modification of programming access code

<u>In programming mode</u> :

#002 nnnnnnn # nnnnnnn #

Press **#002**
Enter the new programming access code (**1 to 7 digits**), then press **#**.
Re-enter the new programming access code (**1 to 7 digits**) to confirm it, then press **#**.

It is important to scrupulously note the new code. If you lose the code, the device has to be sent back to the factory.

5.3 - Telephone network selection

5.3.1 - Analog mode

5.3.1.1 - Analog mode (RTC/PSTN)

By default, the **BOX TA+** module is programmed in analog mode, on a switched public network.

	After activating programming access mode by entering «✱ 123»
#404#	Analog telephone line (RTC/PSTN) voltage of line when not in use : 28V

5.3.1.2 - Analog mode (PABX)

	After activating programming access mode by entering «✱ 123»
#403#	Analog telephone line (PABX) line voltage when not in use: between 20 and 28V

5.3.2 - GSM Mode

	After activating programming access mode by entering «✱ 123»
#405#	Telephone line via GSM gateway

	After activating programming access mode by entering «✱ 123»
#406#	Exit GSM mode and return to telephone line mode on public or private network

5.4 - Transmitter phone number programming

The **BOX TA+** module identifies itself in data mode through the dispatch of an identification code called the “Transmitter Number”.

This number corresponds to the BOX TA+ module’s factory serial number (8 digits shown on the label).

To allow the different databases of the call reception center to be adapted to this, it is possible to modify the identification number.

NOTE: The transmitter number is an 8-digit numerical code. Example: 48211569

WARNING: Changing the transmitter number does not require prior access to programming mode	
✳ # 22220 xx xx xx xx # ✳	xx xx xx xx = Number of transmitter 8 digits

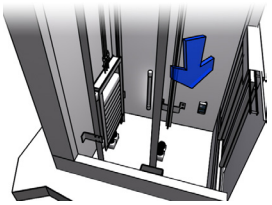
5.5 - Programming module number address

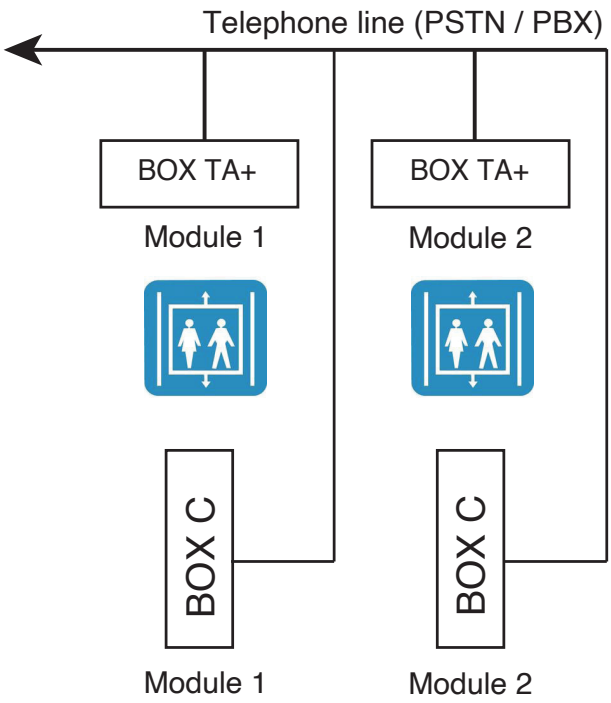
After activating programming access mode by entering «✳ 123»	
# 303 xx #	xx = Number of module followed by configuration type (see below)

5.5.1 - Address grouping on analog telephone line

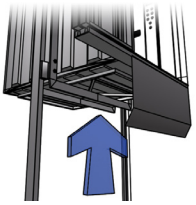
Several modules from the ANEP **BOX TA+** and **BOX C** range can be installed on the same telephone line. The maximum configuration* must not exceed 4 modules connected to the same telephone line. Each module must be assigned an address to allow identification by the receiving center. Similarly, the receiving center must create the corresponding site records for each elevator, including the relevant module numbers.
*** Depends on the quality of the telephone line and the connections**.

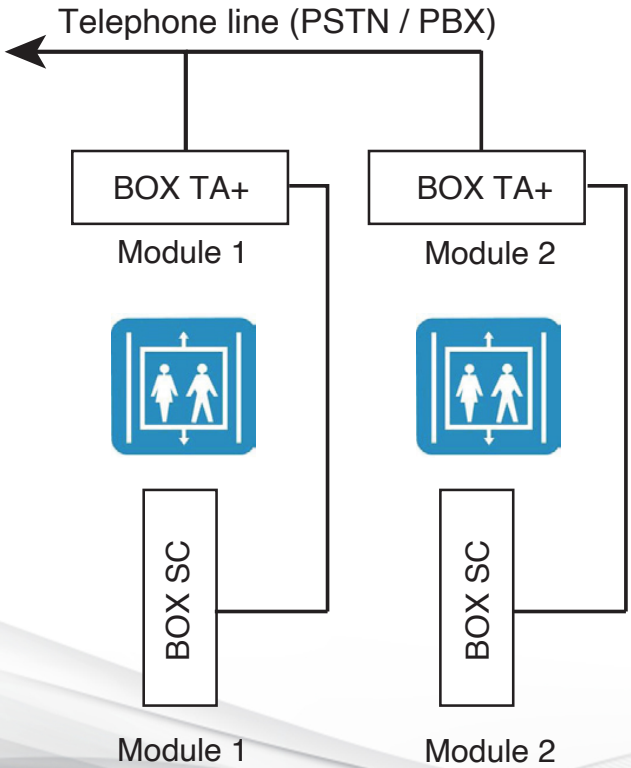
Configuration 1 – <u>Remote Pit Communication Unit with BOX C</u>





Configuration 2 – <u>Remote Under-Car Communication Unit</u> (BOX-SC)

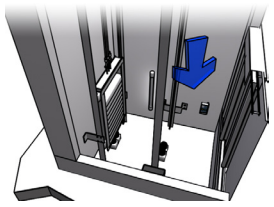


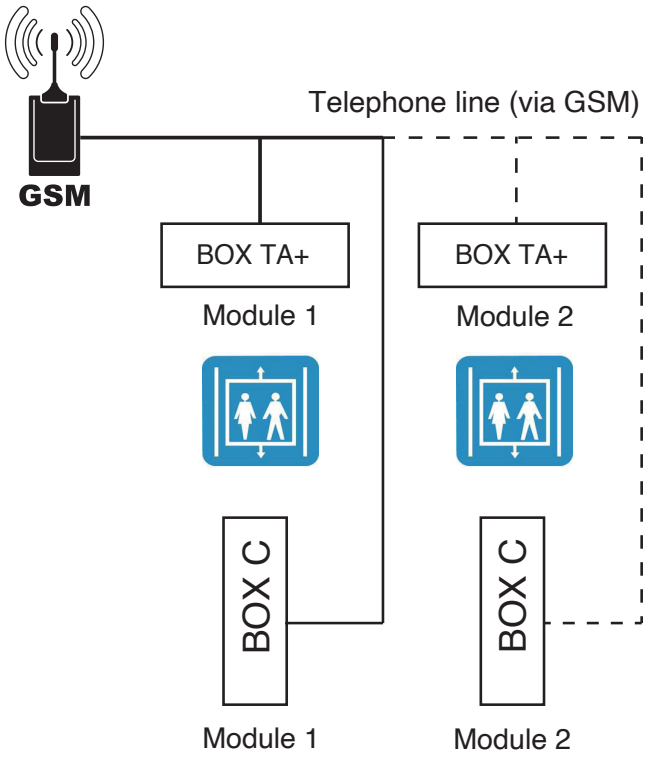


5.5.2 - Addressing on telephone line via GSM gateway

Maximum of 2 modules (when a BOX-SC is connected)

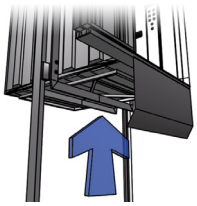
Configuration 1 - <u>Remote Pit Communication Unit with BOX C</u>

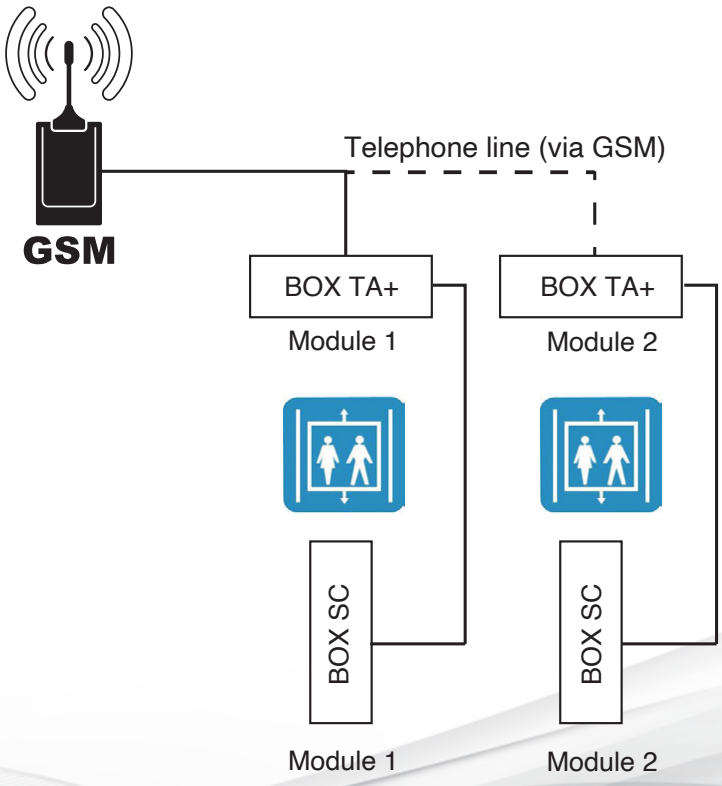




A second elevator car can be connected in certain configurations, allowing up to a maximum of 4 modules. However, make sure that the permissible cable lengths are observed.

Configuration 2 – <u>Remote voice communication under the car</u> (BOX-SC)





5.6 - Communication protocol

The **BOX TA+** module incorporates two types of communication protocols :

<u>ANEP protocol</u> (by default or factory setting):

Open protocol allowing standardisation of data transfer from all ANEP brand equipment.

<u>P100 Protocol</u> :

Open protocol allowing standardisation of data transfer of equipment of different brands. This type of protocol does not allow remote programming or adjusting of the clock on the **BOX TA+** module. This protocol is primarily for the transfer of information linked to the alarm (limited protocol cannot be used for products with transfer of breakdowns and meters).

After activating programming access mode by entering «✱ 123»	
# 200 0 #	ANEP Protocol Selection
# 200 1 #	P100 Protocol Selection

5.7 - Alarm Identification Method

The **BOX TA+** module includes two methods allowing the location of the alarm to be precisely identified (location of the lift).

1. By transfer of data towards a central position with automatic identification by “form transfer”

2. By emission of a message (pre-recorded lift address and references in the **BOX TA+** module) during voice communication with the person trapped in the lift.

NOTE : For the message to be played, the call must be connected directly to the operator without being processed by a receiving front-end system.

5.7.1 - Recording localisation voice message

The location voice message is recorded via the telephone network using a telephone capable of sending DTMF tones.

Location Message Recording Procedure

1. Call back the ANEP **BOX TA+** using a telephone.
2. Once the **BOX TA+** answers, wait until a BEEP is heard through the telephone.
3. Press the **#** key twice on the telephone.
4. To start recording, press **7** on the telephone.
5. To stop recording, press **8**.
6. To listen to the recorded message, press **9**.

5.7.2 - Programming mode of communication of localisation voice message

After activating programming access mode by entering «✱ 123»	
# 506 #	Automatic announcement as soon as the operator picks up and upon the operator's instruction
# 507 #	Automatic announcement as soon as dialling is complete and upon the operator's instruction
# 508 #	Announcement upon the operator's instruction (**key "3" on the telephone**).
# 509 #	No announcement of localisation message

NOTE: By pressing the "3" key on the telephone, the receiving center operator can enable or disable playback of the location voice message.

5.7.3 - Programming number of announcements of the voice localisation method

In automatic mode (# 506 # and # 507 #), the message is replayed every 10 seconds.
The number of replays can be programmed.

After activating programming access mode by entering «✱ 123»	
# 500 n #	n = from 1 to 99.

NB: Factory setting: in automatic mode, the message is announced 5 times.

5.8 - Programming telephone numbers

5.8.1 - Table of telephone numbers

MEMORY	TYPE OF INFORMATION	NATURE OF THE COMMUNICATION	INCOMING
✱123 Programming access code			
#001#	Reset settings		
#101	User and technician alarms	Data & Voice	Modem or telephone
#102	User and technician alarms	Data & Voice	Modem or telephone
#104	Alarm end / GSM battery / 12 V	Data	Modem
#105	Periodic test	Data	Modem
#106	ANEPanywhere (optional)	Data	Modem
#303	Module number		
✱ Exit programming mode			

NOTE: To activate the microphone immediately when the voice communication is established, add a pause (✱ key) before the phone number programmed for memories 101, 102, and 103.

Example: #101 ✱ 01 45 69 28 00#

5.8.2 - Programming telephone numbers

Example of programming memory number 101.

After activating programming access mode by entering «✱ 123»	
# 101 xxx #	x = telephone number (maximum 15 digits).

Identical for other memory entries

5.8.3 - Programming a pause

If the equipment is connected to a PABX, it is often necessary to dial a prefix followed by a pause and then the telephone number.

To program a PAUSE (2 secondes), press « ✱ »

Example: Pause after the prefix 0 (for memory 101) with the ANEP telephone number.

After activating programming access mode by entering «✱ 123»	
# 101 0 ✱ 01 45 69 28 00 #	01 45 69 28 00 = ANEP switchboard number

5.8.4 - Deleting a number

Identical to programming, but without entering a number.

For example: Delete number of memory entry 101.

After activating programming access mode by entering «✱ 123»	
# 101 #	Deletion of number of memory entry 101 from number

Identical for other memories.

5.9 - Validation and setting of parameters

5.9.1 - Time out for press on car alarm button

It is possible to program a time out, after which the pressing on the car alarm button will be detected as an actual alarm. This device avoids the triggering of unexpected alarms (errors or other).

After activating programming access mode by entering «✱ 123»	
# 302 n #	n = value in tenths of a second (max. = 63)

Example : To program 4.5 seconds, enter 45 in place of nn.

NOTE: With the factory settings, the BOX TA+ module is programmed at 0.5 seconds.

5.9.2 - Car alarm messages/multilingual

Programming the playback of the car alarm acknowledgement message (entrapped passenger).

Programming the language and its position in the playback sequence:
(The message can be played up to **5 times**.)

After activating programming access mode by entering «✱ 123»	
# 501 n #	Position 1
# 502 n #	Position 2
# 503 n #	Position 3
# 504 n #	Position 4
# 505 n #	Position 5

n	LANGUAGES
1	FRENCH
2	GERMAN
3	ENGLISH
4	ITALIAN
5	FLEMISH
0	No announcement

5.9.3 - Acknowledgement of the call from the person trapped (EN81-28)

When this function is validated, an alarm call emitted by ANEP **BOX TA+** must be acknowledged by the operator who dials the sequence «**#1**» on the keypad of her telephone during the voice communication.

If this operation is not performed, ANEP **BOX TA+** calls back the call reception center 6 times. This function ensures that the alarm is acknowledged by an operator and not by a voice message.

After activating programming access mode by entering «✱ 123»	
# 202 #	Validation of the car alarm being acknowledged by the operator
# 203 #	Unvalidation of the car alarm acknowledgement by the operator

5.9.4 - Communication time

Communication time is adjustable between 1 and 99 minutes. **(Factory setting: 3 minutes)**

After activating programming access mode by entering «✱ 123»	
# 201 nn #	nn = minutes Value from 01 to 99.

5.9.5 - Setting volume levels

Method 1

After completing the programming, initiate a call by pressing the car alarm button on the **BOX TA+**, or the bell button.

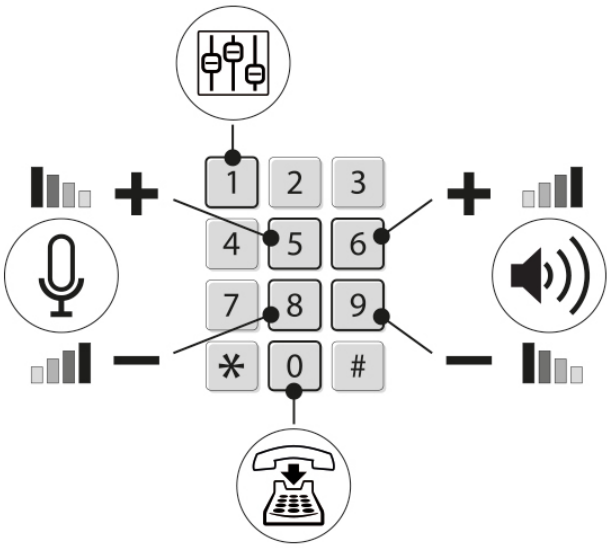
The following settings are available to adjust the audio levels and the microphone/loudspeaker switching of the ANEP **BOX TA+** to suit local operating conditions.

→ Key **6** = **+** Key **9** = **–**
Adjusts the loudspeaker volume after microphone/loudspeaker switching.

→ Key **5** = **+** Key **8** = **–**
Adjusts the microphone sensitivity.

Key **0** hangs up the call.
Key **1** restores the factory settings.

NOTE: Changes made in manual adjustment mode override those previously made in automatic adjustment mode.



Method 2

The settings are configured outside of a call, while in programming mode.

Enter the following sequences:

- **#410 1 xx #** (xx = 1 to 15) to adjust the **car loudspeaker volume.**
- **#410 2 xx #** (xx = 1 to 15) to adjust the **car roof loudspeaker volume.**
- **#410 3 xx #** (xx = 1 to 15) to adjust the **under-car loudspeaker volume.**
- **#411 1 xx #** (xx = 1 to 15) to adjust the **car microphone level.**
- **#411 2 xx #** (xx = 1 to 15) to adjust the **car roof microphone level.**
- **#411 3 xx #** (xx = 1 to 15) to adjust the **under-car microphone level.**

5.9.6 - Configuration of « dual » mode

The dual call mode allows a guard post or safety station to be called (telephone only) before sending an alarm to the call reception center (data and ...).

Telephone memories 101 and 102 are used for this function. Memory 103 is not used in this function, even if a number is stored.

After activating programming access mode by entering «✱ 123»	
# 206 #	Validation of dual call mode
# 207 #	Unvalidation of dual call mode

Telephone memory numbers must be configured as follows:

Memory no.101 : Telephone number of the guard or guard post.
Memory no.102 : Telephone number of the call reception center.

Sequencing of the alarm:

When the alarm is triggered, the transmitter calls memory number 101 (guard).

It then calls memory number 102 (reception center).

If memory number 101 is busy (guard or guard post) or 102 is busy (reception center), these numbers are called up to **six times over**.

5.10 - Periodic call

5.10.1 - Validation of periodic call

To validate the periodic call, you must have previously programmed a telephone number into memory number 105 of the **BOX TA+** module (refer to chapter 4.8 “Programming telephone numbers”).

Nota : When exiting programming mode, having memorised the telephone number of the periodic call, the BOX TA+ module automatically triggers its first periodic call.

So as to warn the technician that the BOX TA+ module is in communication, the loudspeaker is activated throughout the communication.
Access to programming mode is impossible during a telephone communication.

5.10.2 - Frequency of periodic calls

Having activated the access to programming mode «✱123»	
# 301 n #	n = the number of days between each periodic call (1, 2 or 3 days)

NOTE: Factory setting: 3 days.

5.11 - Intercom

5.11.1 - Setting shafts in intercom mode machine room and fire services

The loudspeaker and microphone gain levels used for the machine room intercom and firefighter module functions can be adjusted independently.
These settings do not affect the gain levels configured for the standard three-way communication functions.

Microphone Gain Adjustment:

After entering the programming access code:

Press **#407**, enter a value between **1 and 15**, then press **#**
(1 = minimum gain / 15 = maximum gain)

Loudspeaker Gain Adjustment:

After entering the programming access code:

Press **#408**, enter a value between **1 and 15**, then press **#**
(1 = minimum gain / 15 = maximum gain)

6 - OPERATION

6.1 - Car alarm test

Press the car alarm button.

If alarm discrimination is not enabled, the **BOX TA+** module plays one or more voice messages to indicate that the alarm has been acknowledged before establishing communication with the call center operator.

The dial tone and dialing sequence are audible inside the car.

If no voice communication is detected, BEEPs are emitted every 6 seconds to indicate that the device is connected to the line.

To end the alarm procedure, press the green button on the **BOX TA+** module («End of Alarm»).

6.2 - Technician alarm on car roof

Press the alarm button on the **BOX TA+** module.

The **BOX TA+** module plays one or more voice messages to indicate that the alarm has been acknowledged before establishing communication with the call center operator.

The dial tone and dialing sequence are audible on the car roof.

If no voice communication is detected, BEEPs are emitted every 6 seconds to indicate that the device is connected to the line.

6.3 - Automatic hang-up (phone mode)

The call is automatically hung up when a busy tone is detected on the telephone line or when the programmed communication duration has elapsed.

The ANEP **BOX TA+** emits a melody 10 seconds before the automatic hang-up.

6.4 - Sequence of call numbers

6.4.1 - Standard mode

If the called number 101 is busy or does not answer (after 10 rings), the ANEP **BOX TA+** calls numbers 102 and 103, if programmed. Each programmed voice communication number is called sequentially up to a maximum of 6 times.

Memory No.	Call order	Cycles
101	**1**	**6 times**
102	**2**	
103	**3**	

6.4.2 - Dual call mode

NOTE: In Double Call mode, memory 103 is not used.

Memory No.	Call order	Cycles
101	**1**	**6 times**
102	**2**	

When an alarm is triggered, the transmitter first calls the number stored in memory 101 (caretaker).

It then calls the number stored in memory 102 (receiving center).

If the number stored in memory 101 (caretaker) or memory 102 (receiving center) is busy, the corresponding number(s) are redialed up to six times.

7 - KEYBOARD PROGRAMMING TABLE

Entering and exiting parameter-setting mode

- ✱ + <Access Code > Switch to settings mode
- ✱ Exit programming mode

#0...	**Setting**
#001#	Reset of settings and Tel number
#002...#	New Access Code

#1...	**Tel number**
#101...#	Primary voice call number (or caretaker number in Double Call mode)
#102...#	Backup voice call number (or voice call number in Double Call mode)
#103...#	Receiving center number (data before voice call)
#104...#	Receiving center number (data after voice call)
#105...#	Periodic test call number
#106...#	Internet number

#2...	**Communication**
#200 0#	ANEP protocol
#200 1#	P100 protocol
#201...#	Communication duration during a call (1 to 99 min)
#202#	Operator call acknowledgement enabled
#203#	Operator call acknowledgement disabled
#204#	Full-duplex mode enabled for the car
#205#	Switching duplex mode enabled for the car
#206#	Double Call mode (Caretaker Call) enabled
#207#	Double Call mode (Caretaker Call) disabled

#3...	**Configuration**
#301...#	Periodic test call interval (1, 2, or 3 days)
#302...#	Alarm input delay (10 to 63 × 0.1 s)
#303...#	Module address (1 to 4)
#308 XX #	Forced alarm delay (XX = value in 100 ms increments; max. 25 s)

#4...	**Configuration**
#401#	Siren function enabled
#402#	Siren function disabled
#403#	Private PBX mode enabled (low line voltage, ≥ 20 V)
#404#	Analog mode (PSTN) enabled (normal line voltage, ≥ 28 V)
#405#	GSM mode enabled
#406#	GSM mode disabled
#407...#	BOX M intercom microphone gain adjustment (1 to 15)
#408...#	BOX M machine room intercom loudspeaker gain adjustment (1 to 15)
#410 1 ..#	Car loudspeaker volume adjustment (1 to 15)
#410 2 ..#	Car roof loudspeaker volume adjustment (1 to 15)
#410 3 ..#	Under-car loudspeaker volume adjustment (1 to 15)
#411 1 ..#	Car microphone level adjustment (1 to 15)
#411 2 ..#	Car roof microphone level adjustment (1 to 15)
#411 3 ..#	Under-car microphone level adjustment (1 to 15)
#417#	Yellow / Green indicator management according to **EN 81-28:2003** enabled (default)
#418#	Yellow / Green indicator management according to **EN 81-28:2022** enabled
#419#	Yellow / Green indicator management according to **EN 81-28:2022** enabled, with the yellow indicator turning off when the BOX is no longer in communication

KEYPAD PROGRAMMING TABLE (CONTINUED)

#5...	Configuration
#500...#	Number of location voice message playbacks
#501...#	Message 1
#502...#	Message 2
#503...#	Message 3
#504...#	Message 4
#505...#	Message 5
#506#	Automatic playback when the operator answers, and on operator command
#507#	Automatic playback at the end of dialing, and on operator command
#508#	Playback on operator command (telephone key «3»)
#509#	Location voice message playback disabled

RECYCLING AND WARRANTY

Electrical equipment must be recycled in accordance with Directive 2012/19/EU of 4 July 2012 on Waste Electrical and Electronic Equipment (WEEE).

WARRANTY

This product is covered by a **3-year** warranty from the date of invoice, except for batteries and cells, which are covered by a **6-month** warranty.

This warranty does not apply in the following cases:

- Use not in accordance with the instructions provided in this manual.
- Damage caused by external factors (vandalism, fire, flooding, lightning, power surges, etc.).
- Installation carried out by an installer who is not qualified or approved by ANEP.
- Modifications or repairs performed by persons or organizations not approved by ANEP.
- Opening of the product by a person not approved by ANEP.

AFTER SALES SERVICES PROVIDED BY

SAV-TEL

4 bis rue de Paris 94470 Boissy-Saint-Léger

Tel : +33 (1) 45 98 34 44

ANEP

Website : www.anepstore.com