



**Amigo**<sup>II</sup>  
Emergency Telephone  
(EN 81-28 compliant)



ETSA2MRS



**DMG SpA**  
Via Quarto Negrone, 10  
00040 CECCHINA (ROMA) • ITALIA  
Tel. +39 06930251 • Fax +39 0693025240  
info@dmg.it • www.dmg.it

**Installation manual**

Vers. 1.0 - English

**NOTE:**  
Leave this document close to the emergency  
telephone after installation

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SYSTEM COMPONENTS



**ETSA2MRS**  
Main device



**CITCOC**  
Phone receiver



**ETSA2CSD**  
DIGITAL device  
(Car and fire-fighters floor)



**ETSKSM2** (Standard 1,2 Ah)  
**ETSKSM3** (Standard 7,2 Ah)  
**ETSKSMP** (Pitagora)  
Machine room set



**ETSA2SLA**  
ANALOG device  
(Car top and car bottom)



**ETSA2SLD**  
DIGITAL device  
(Car top and shaft pit)



**ETS8128CH2**  
Feeder / battery charger



**ETSGSM**  
GSM module

## 1) - Product description

AMIGO is a programmable phone dialler for lifts, complying with EN 81-28 norm requirements.

### 1.1) - Technical features

- Power supply: 12Vdc +/- 15%
- Absorption in stand-by:
  - ETSA2MRS: 100mA +/- 5%
  - ETSA2CSD / ETSA2SLD: ~ 21mA
  - ETSA2SLA: ~ 10mA
- Absorption during the call cycle:
  - ETSA2MRS: 120 ÷ 250mA
  - ETSA2CSD / ETSA2SLD: 140 ÷ 190mA
  - ETSA2CSA: ~ 10mA
- Optional: Feeder/battery charger (code ETS8128CH2)

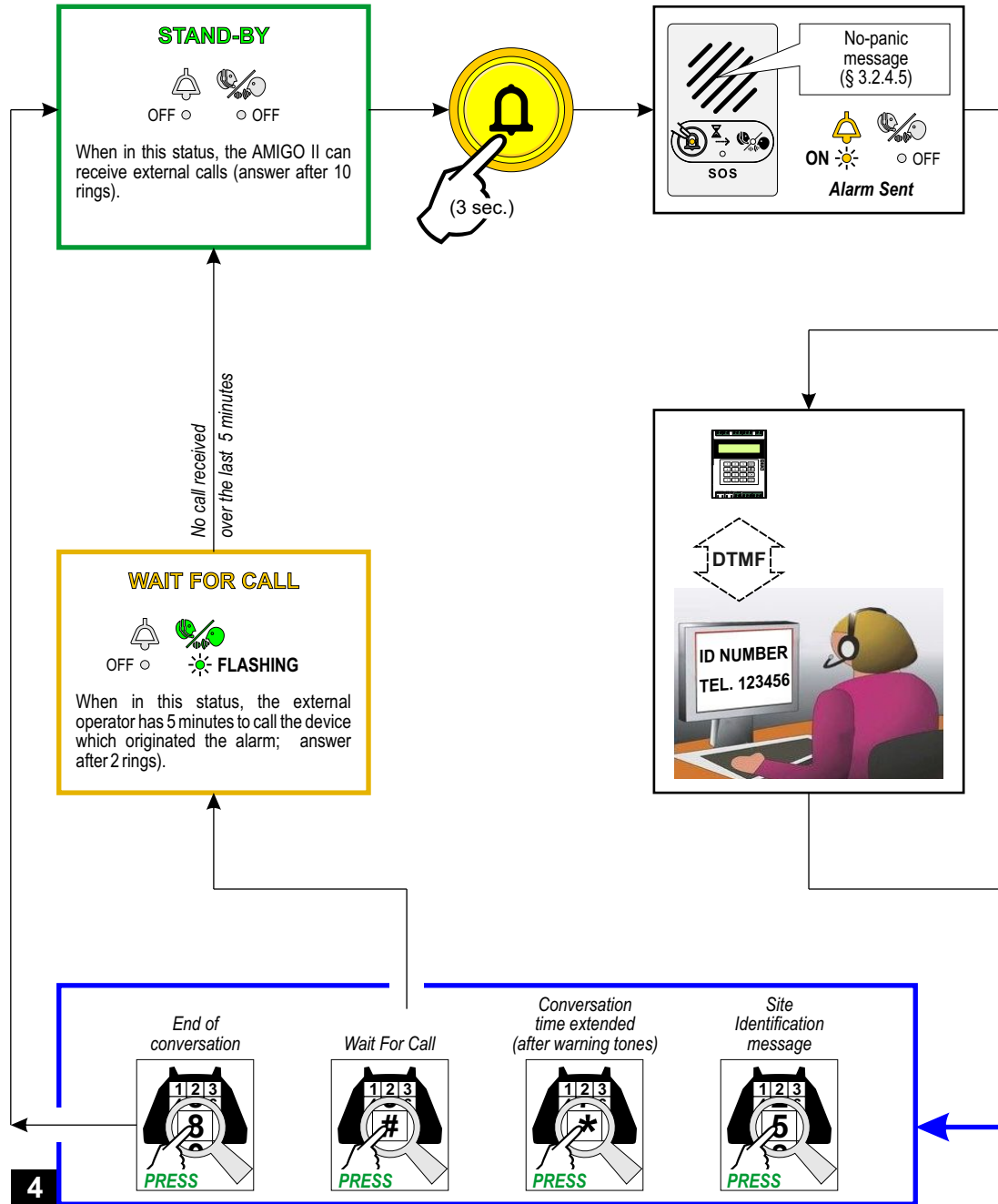
### 1.2) - Main functions

- Store capacity up to 6 phone numbers for emergency calls
- 1 phone number dedicated to service calls
- Recordable message
- Possibility of recording five customized messages: "Site identification", "Low battery charge", "Regular operation", "Irregular operation", "No-panic message"
- Programmation unit with LCD screen and keyboard (16 keys)
- Dialler status visible on LCD display
- Two-way communication time programmable by the user
- "Low battery charge" outbound call
- Service call to/from external call center
- Manual dialing feature to check phone line availability
- Interphone system between lift car and machine room ("Machine room" version only)
- Local or remote alarm reset management
- Alarm filters management in case of working system or open doors with car at floor
- Local or remote management of "wait for call status"
- On-board "Alarm sent" / "Communication established" indicators (EN81-28)
- Automatic line recognition for major phone lines
- Possibility of connecting two or more devices on the same phone line

### 1.3) - Periodic test call (EN 81-28)

The Alarm System shall simulate an alarm event and establish a communication with the Rescue Service at least every 72 hours (3 days). The AMIGO II Emergency Telephone includes this feature (see 3.2.12)

### 1.4) - Description of Alarm Cycle



NOTES :

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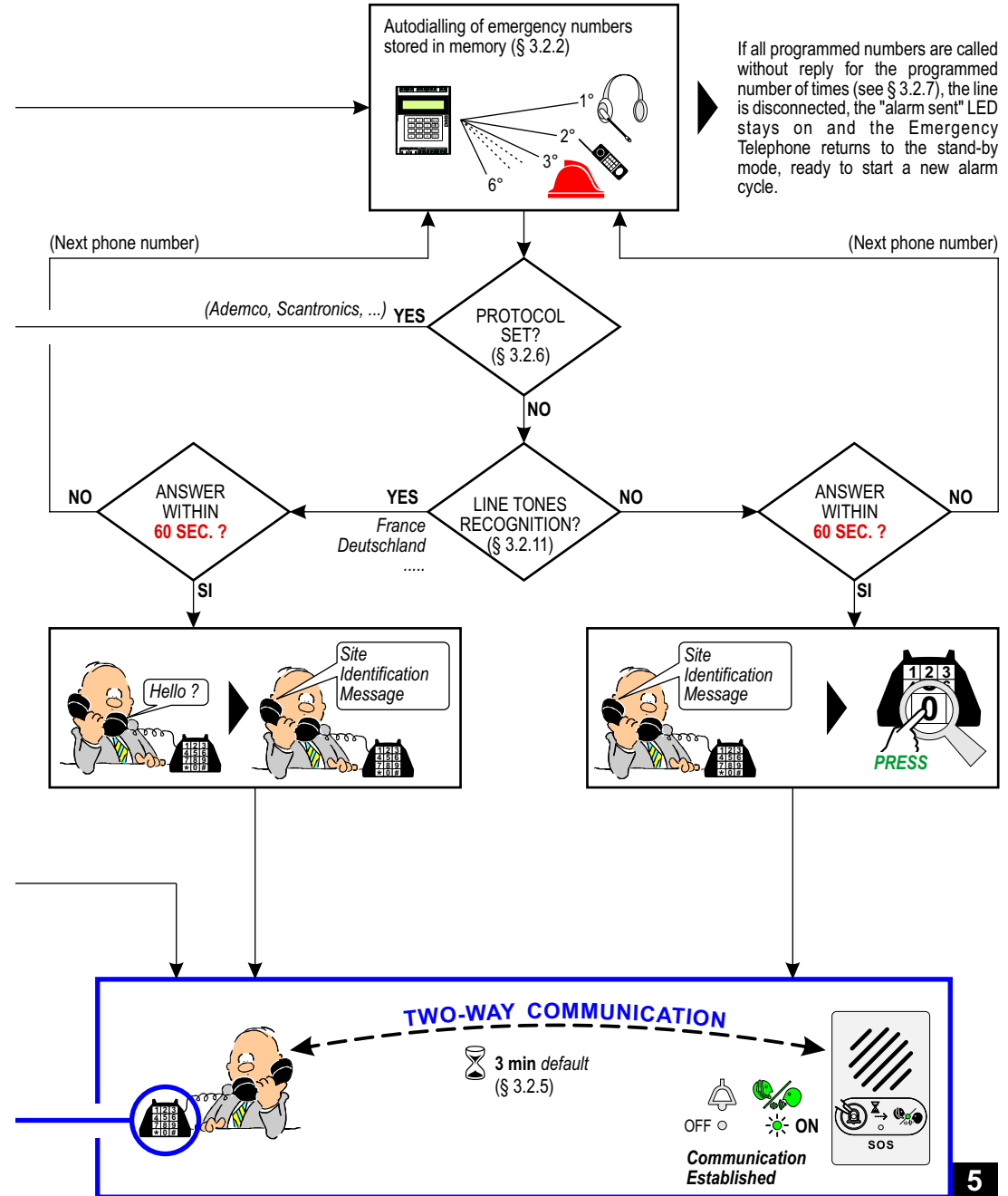
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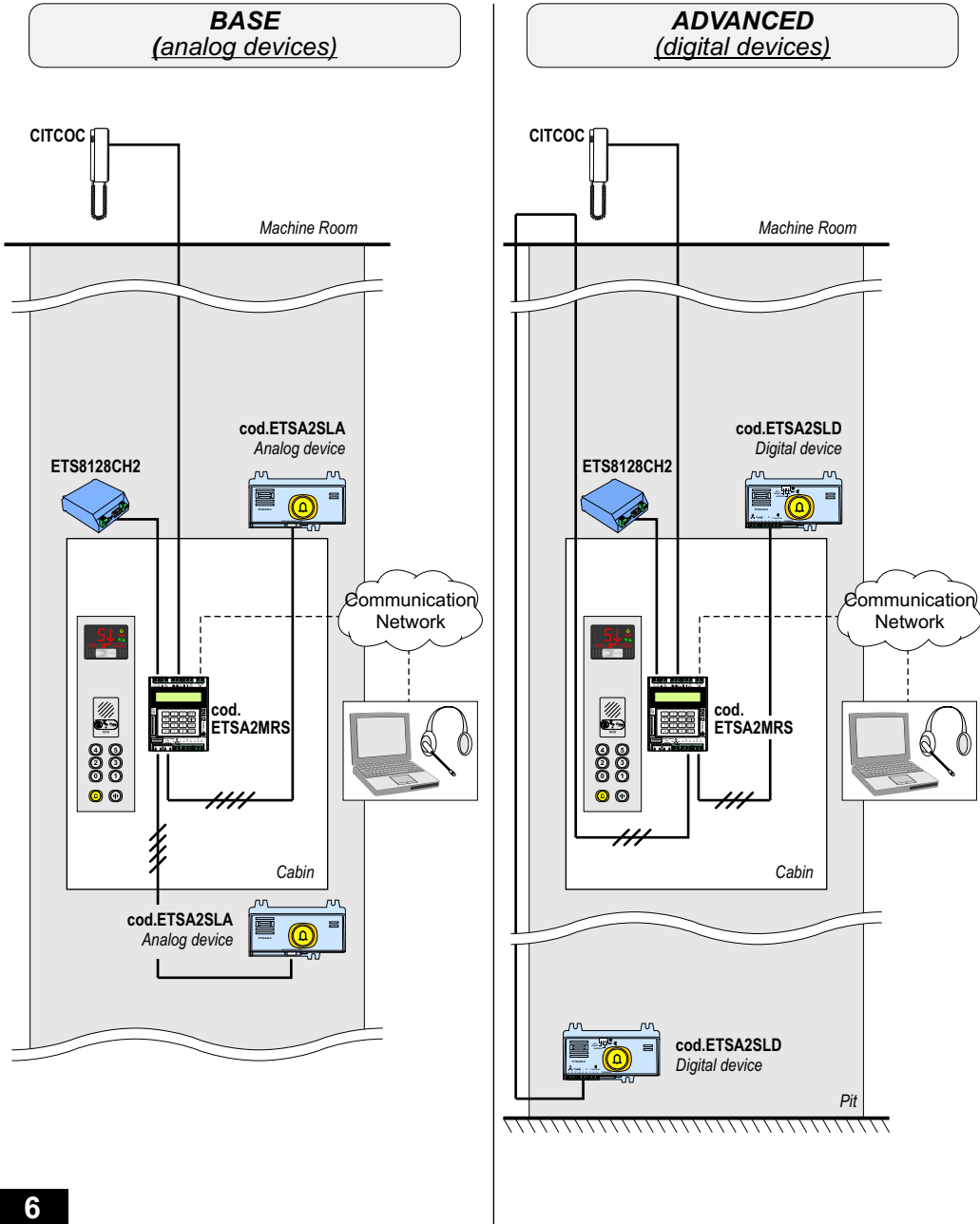
## 4) - Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Impossible to hear the operator voice from the interphone (CITCOC)	Wrong connections	Check connections
	Volume is set at minimum	Use the trimmer on ETS8128MR device to raise the volume

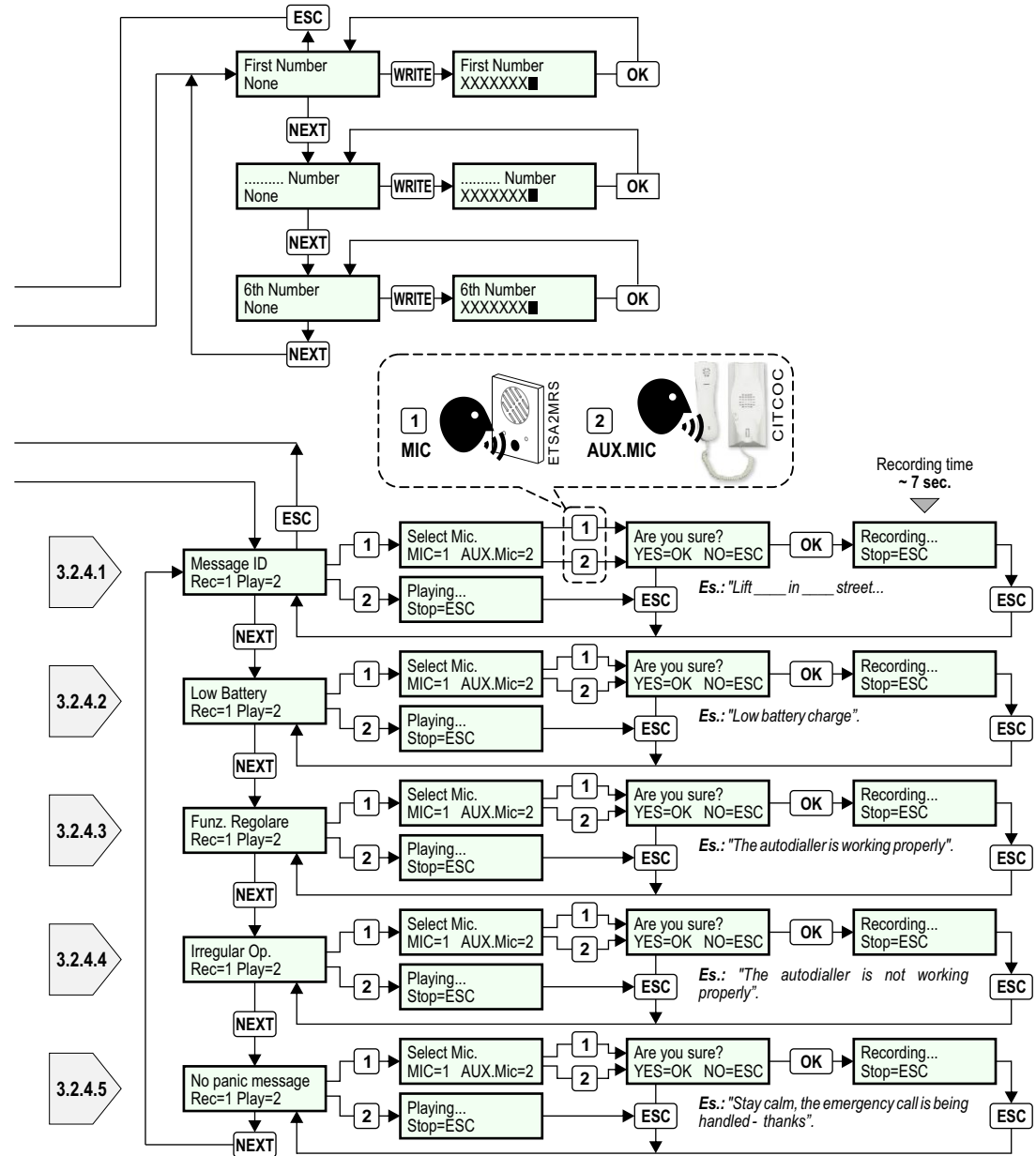


## 2) - INSTALLATION GUIDE

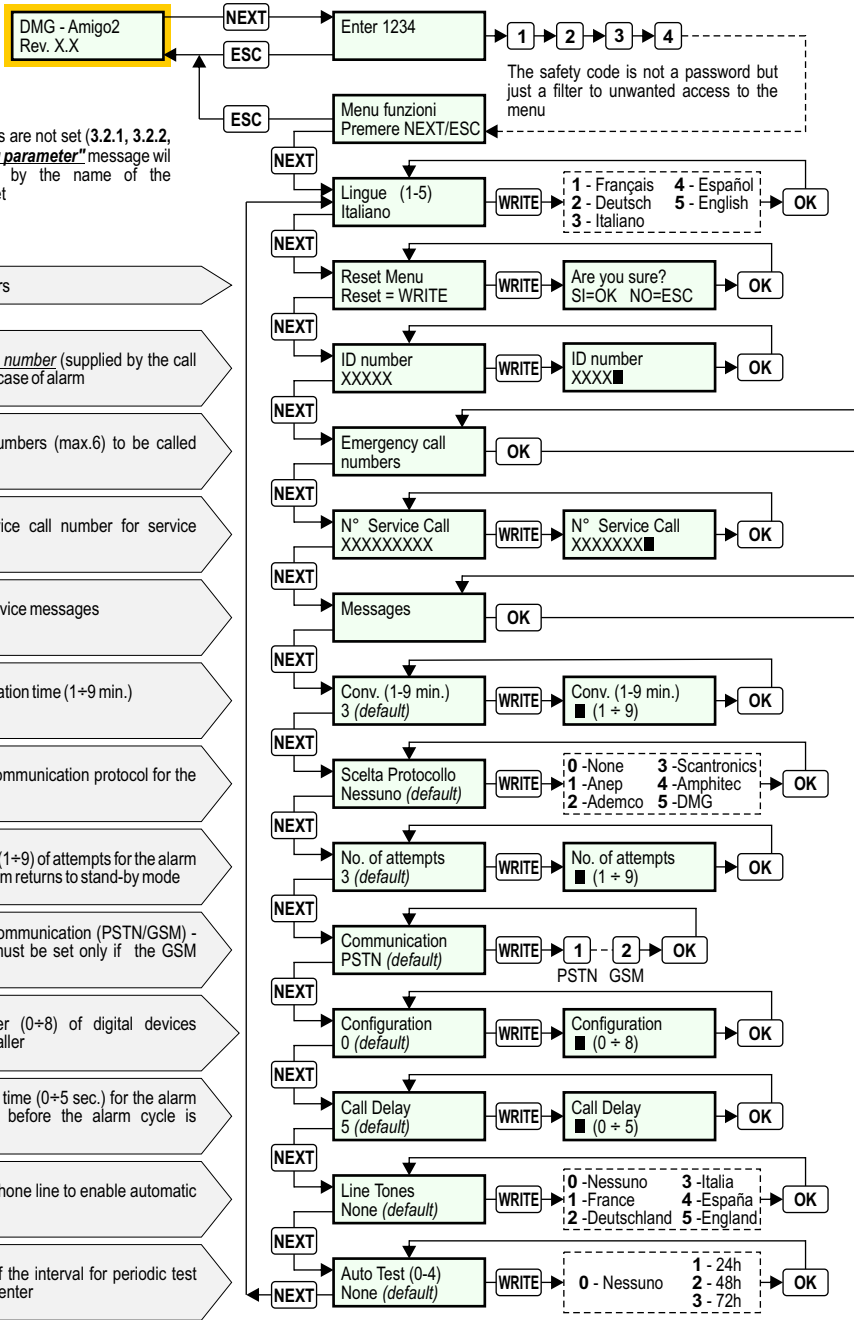
### 2.1) - 3-Device Configuration



- 1 2 3 **NEXT** > Menu browsing and start programming
- 4 5 6 **WRITE** > Enters menu to modify data and starts programming
- 7 8 9 **OK** > Validates changes
- \* 0 # **ESC** > Exits current menu, returns to main, cancel last input

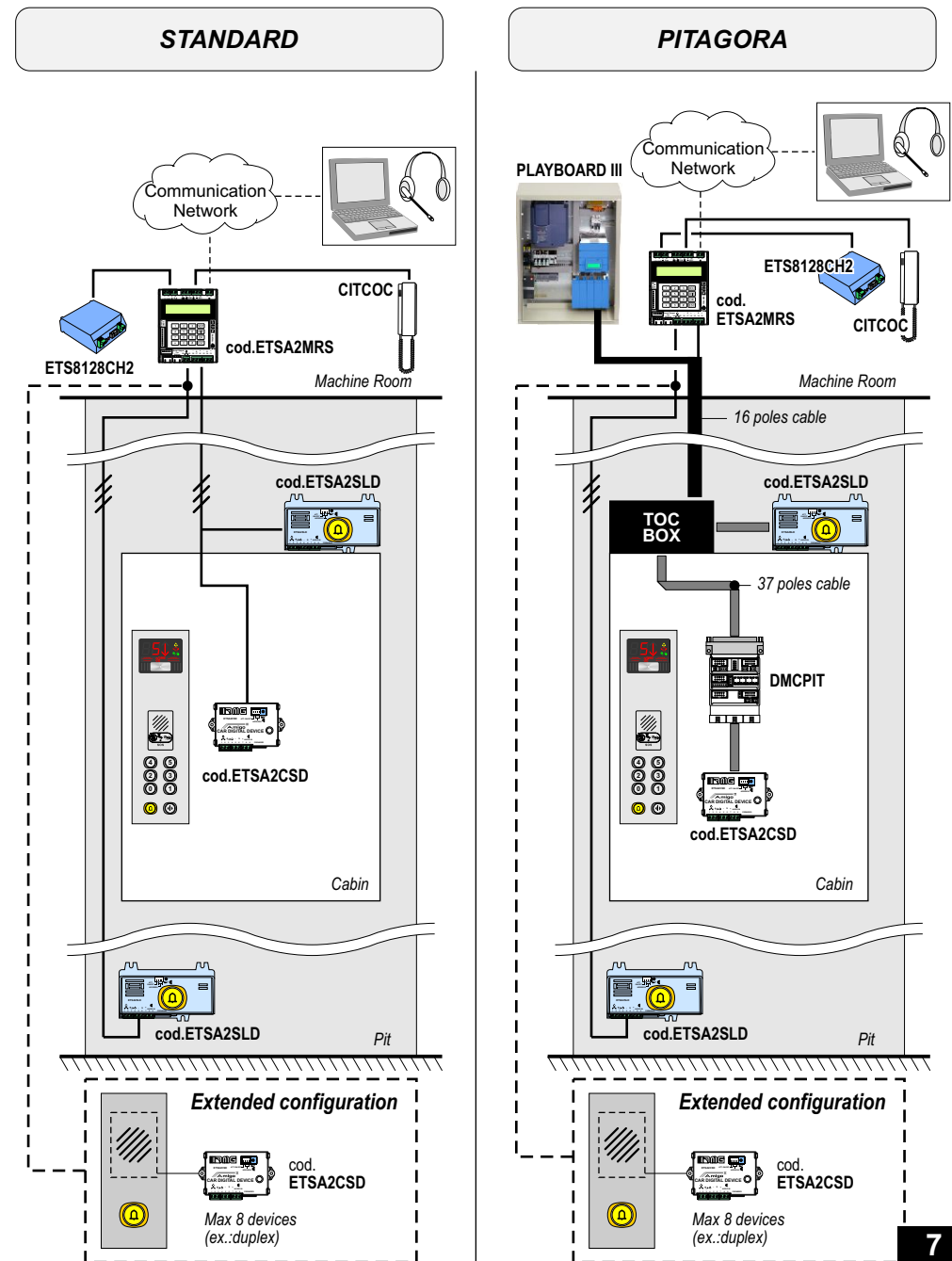


### 3.2) - PROGRAMMING MENU



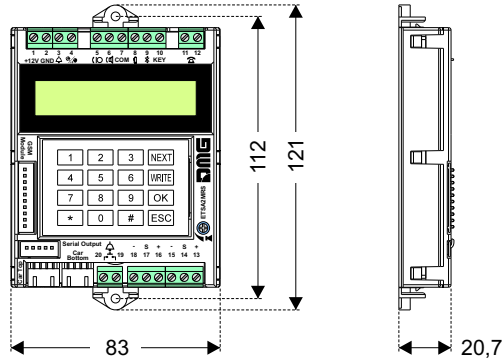
- If main parameters are not set (3.2.1, 3.2.2, 3.2.3) the "Wrong parameter" message will appear, followed by the name of the parameter to be set
- Reset default parameters
- 3.2.1** Recording of unique *ID number* (supplied by the call center) to be sent out in case of alarm
- 3.2.2** Recording of phone numbers (max.6) to be called during the alarm cycle
- 3.2.3** Recording of the service call number for service messages
- 3.2.4** Recording of 5 voice service messages
- 3.2.5** Setting of max. conversation time (1+9 min.)
- 3.2.6** Setting of the type of communication protocol for the call center
- 3.2.7** Setting of max. number (1+9) of attempts for the alarm cycle to before the system returns to stand-by mode
- 3.2.8** Setting of the type of communication (PSTN/GSM) - GSM communication must be set only if the GSM module is present
- 3.2.9** Setting of the number (0+8) of digital devices connected to the autodialler
- 3.2.10** Setting of the minimum time (0+5 sec.) for the alarm button to be pressed before the alarm cycle is triggered
- 3.2.11** Setting of the country phone line to enable automatic line recognition
- 3.2.12 (EN 81-28)** - Setting of the interval for periodic test call to external service center

### 2.2) - 4-Device Configuration

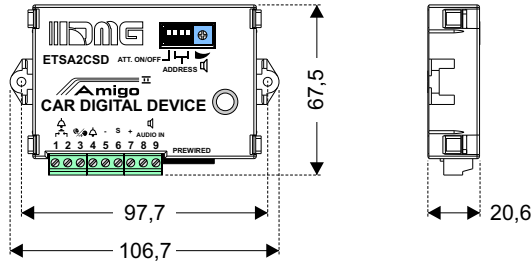


## 2.3) - DIMENSIONS

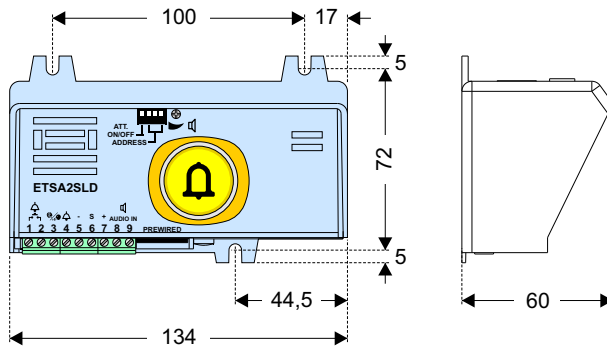
ETSA2MRS



ETSA2CSD



ETSA2SLA  
ETSA2SLD



## 3) - PROGRAMMING

### 3.1) - BASIC ALARM CYCLE PROGRAMMING

Set the following parameters to put the alarm system into operation:

- 1** Store the "ID number" (see § 3.2.1):  
In case of DTMF protocol (Anep, Ademco, Scantronics, Amphitec, DMG) this number will be supplied by the call center.  
In case of no DTMF protocol, a standard ID code must be entered.

DMG - Amigo2 Rev. X.X → NEXT → 1 → 2 → 3 → 4 → NEXT → NEXT → NEXT → WRITE → Enter ID number → OK
- 2** Record all phone numbers to be called in case of emergency (see § 3.2.2); if a service contract with a call center is in place, enter the relevant service number.  
**WARNING: At least one phone number must be recorded, otherwise the alarm cycle will not be activated.**

NEXT → OK → WRITE → Record first phone number → OK → ESC
- 3** Record the phone numbers to be called for service calls (see § 3.2.3).

NEXT → WRITE → Record service phone number → OK
- 4** Record service voice messages (see § 3.2.4) to be used for both service calls and alarm cycle.

NEXT → OK → 1 → OK → Record first service message → Wait the end of recording (~ 7 sec.) → ESC
- 5** Set the communication protocol (see § 3.2.6). If the name / type of call center is known, select it from the list, otherwise leave the default value (*none*).

NEXT → NEXT → WRITE → Set the communication protocol → OK
- 6** Set the number of DIGITAL devices installed (see § 3.2.9)

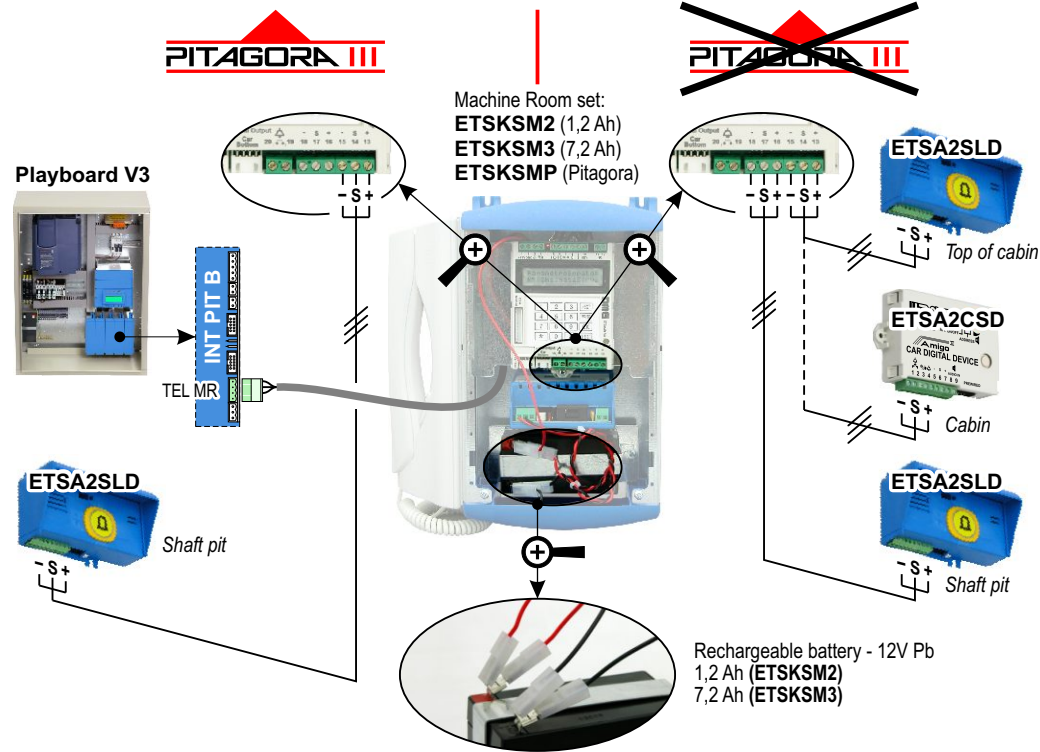
NEXT → NEXT → NEXT → WRITE → Set the number of DIGITAL devices installed → OK
- 7** (EN 81-28) - Set the periodic test call interval (see § 3.2.12)

NEXT → NEXT → NEXT → WRITE → Set the periodic test call interval → OK → END OF PROGRAMMING → ESC
- 8** Assign the address to digital devices, if present (§ 2.5.2)

To change default values for remaining parameters see the programming menu (§ 3.2).

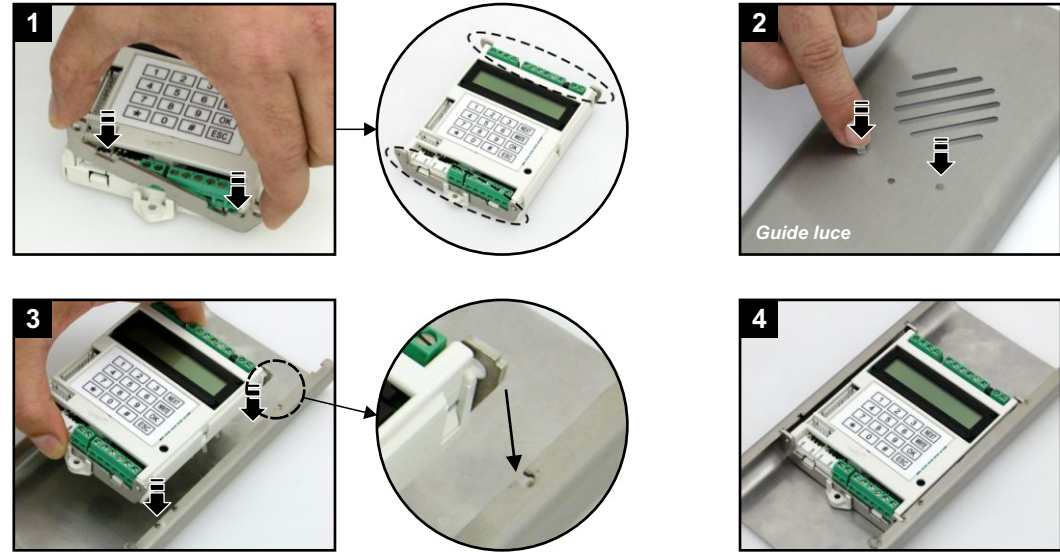


### 2.6.5) - Machine Room set connections

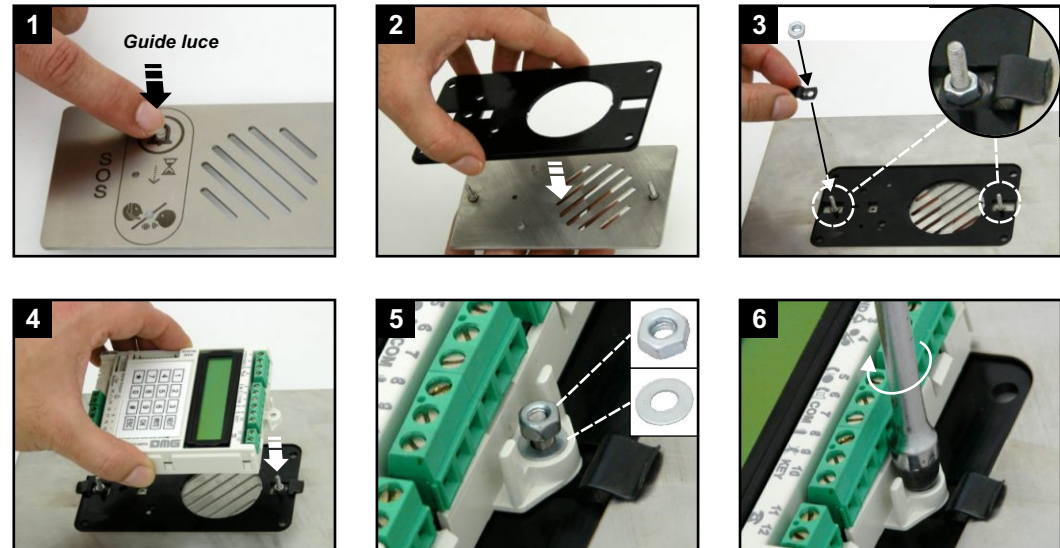


### 2.4) - INSTALLATION ISTRUCTIONS

#### 2.4.1) - On Gilda plates 100 / 125 mm

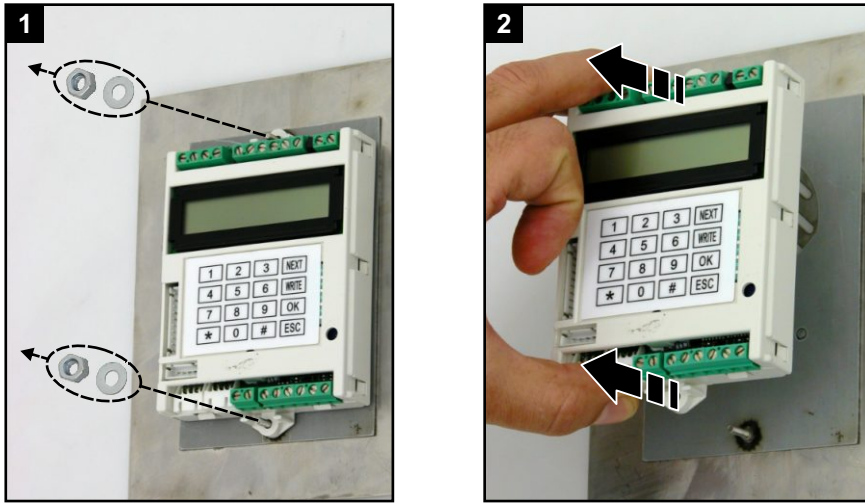


#### 2.4.2) - With supporting plate



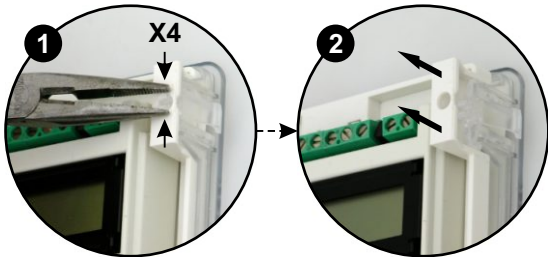
Follow the inverse procedure to dismantle

### 2.4.3) - On flat panels



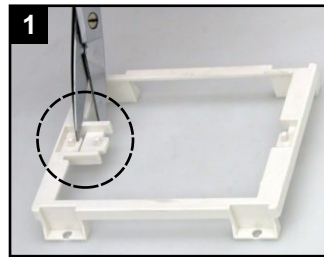
### 2.4.4) - On TD5 plastic support

#### Dismantling

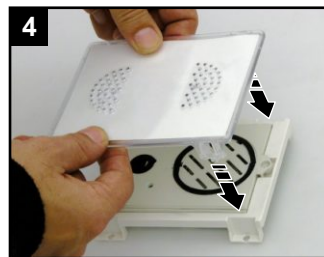
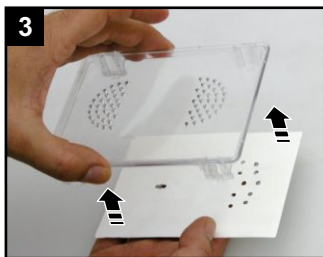
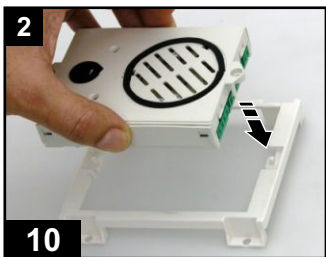


To dismantle the ensemble, unlock all 4 fixings as indicated.

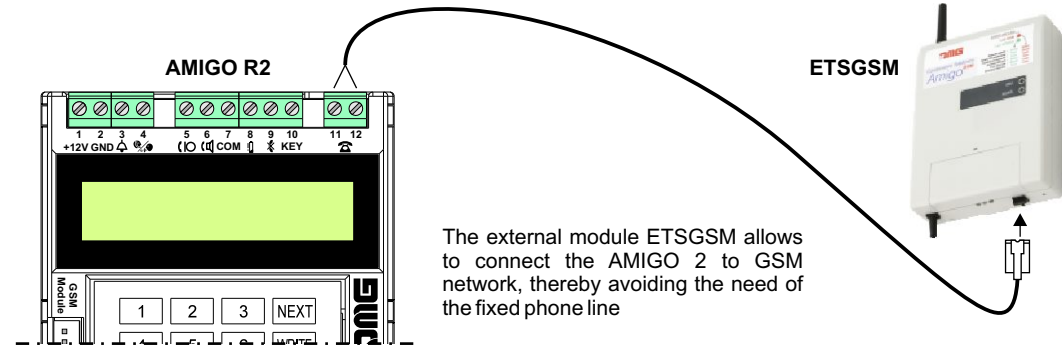
#### Mounting



This steps is for ETSA2MRS device only



### 2.6.3) - GSM external module connections



### 2.6.4) - Installation on DUPLEX lifts



On DUPLEX lifts, it is possible to install just one AMIGO 2 in one machine room and use the extended 4-device layout (§ 2.2).

#### Interphone Communication (Amigo 2 and ANALOG devices)

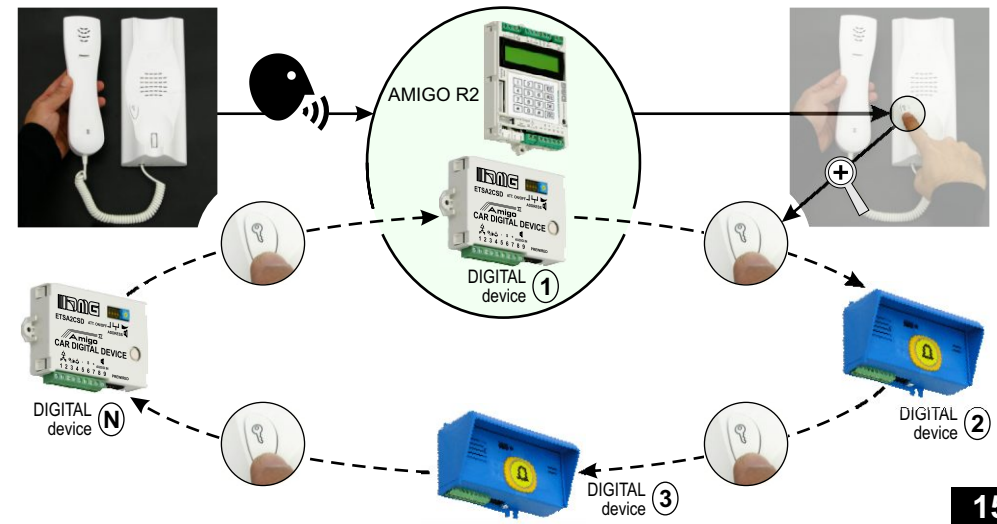
Configuration  Just pick up the interphone handset to communicate with ALL analog devices.  
Set to "0" the number of digital devices (§ 3.2.9)

§ 3.2.9

#### Interphone Communication (Amigo 2 and DIGITAL devices)

Configuration  1) Enter the number of digital devices installed (§ 3.2.9)  
2) Assign an address to each device (§ 2.5.2)   
3) Press  on the CITCOC handset to switch from one device to the next

§ 3.2.9



## 2.6) - ADVANCED CONNECTIONS

### 2.6.1) - Alarm Filtering

When made available by the lift controller (or by any other device in the installation), signals related to the status of hall / cabin doors and to the presence of the car at floor can be used to filter undue alarms (§ 4.2.1 of EN 81-28 norm). For this purpose, connect the potential-free contact to the ALARM FILTER input of the Emergency Telephone.

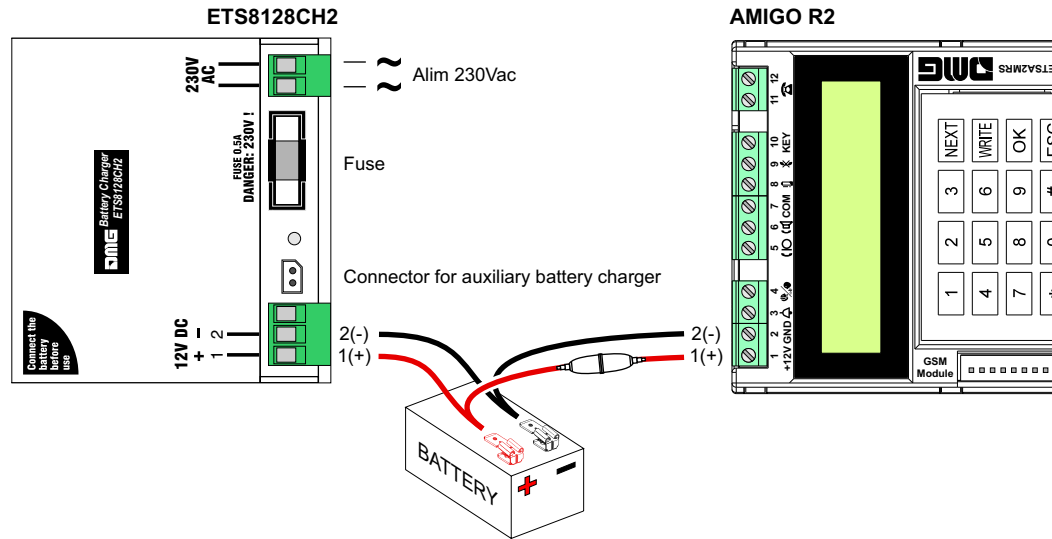
Full compliance to EN81-28 norm shall be achieved by connecting AMIGO 2 Telephone to an external Rescue Service (Call Center or the like).

### 2.6.2) - Emergency power supply test (§ 4.1.3 of EN 81-28 norm)

No alarm shall be lost even in case of power failure. If the Alarm System has a rechargeable battery, an alert message shall be sent when capacity is lower than what needed to provide 1 hour of normal operation to the system in case of power failure.

To comply with this requirement, the Battery Charger ETS8128CH2 and 12V external battery (optionals) must be added to AMIGO 2 Emergency Telephone.

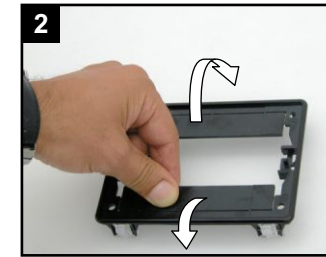
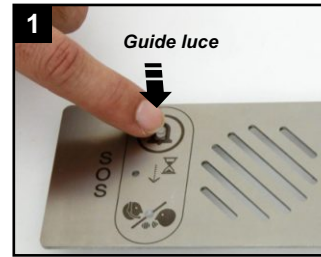
When power in tension falls below 12V, the AMIGO 2 sends out a service call with the "Low battery charge" message (§ 3.2.4.2). When the 12V line is restored, a service call with the "Regular operation" message is sent (§ 3.2.4.3).



### ETS8128CH2 Technical Specs

<b>Power supply</b>	230Vac
<b>Output</b>	12Vdc 300mA isolated through transformer
<b>External battery</b>	12V Pb rechargeable 1,2 Ah or 7,2 Ah (for 4 to 8 digital devices)
<b>Autonomy</b>	stand-by min. 8H / conversation time min. 2H
<b>Power connections</b>	Terminal 2P 5mm
<b>Output connections</b>	Terminal 3P 5mm
<b>Power input protection</b>	0,5 A 5x20mm fuse
<b>12v output protection</b>	1A fuse self repairing

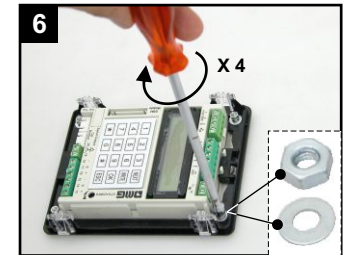
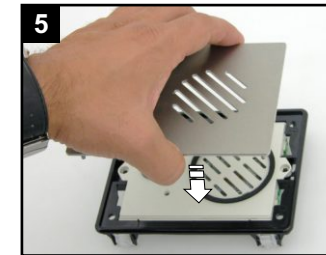
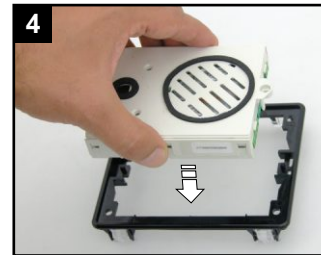
## 2.4.5) - On TD5 st/steel capacity plate



Remove the two breakable parts



This steps is for ETSA2MRS device only

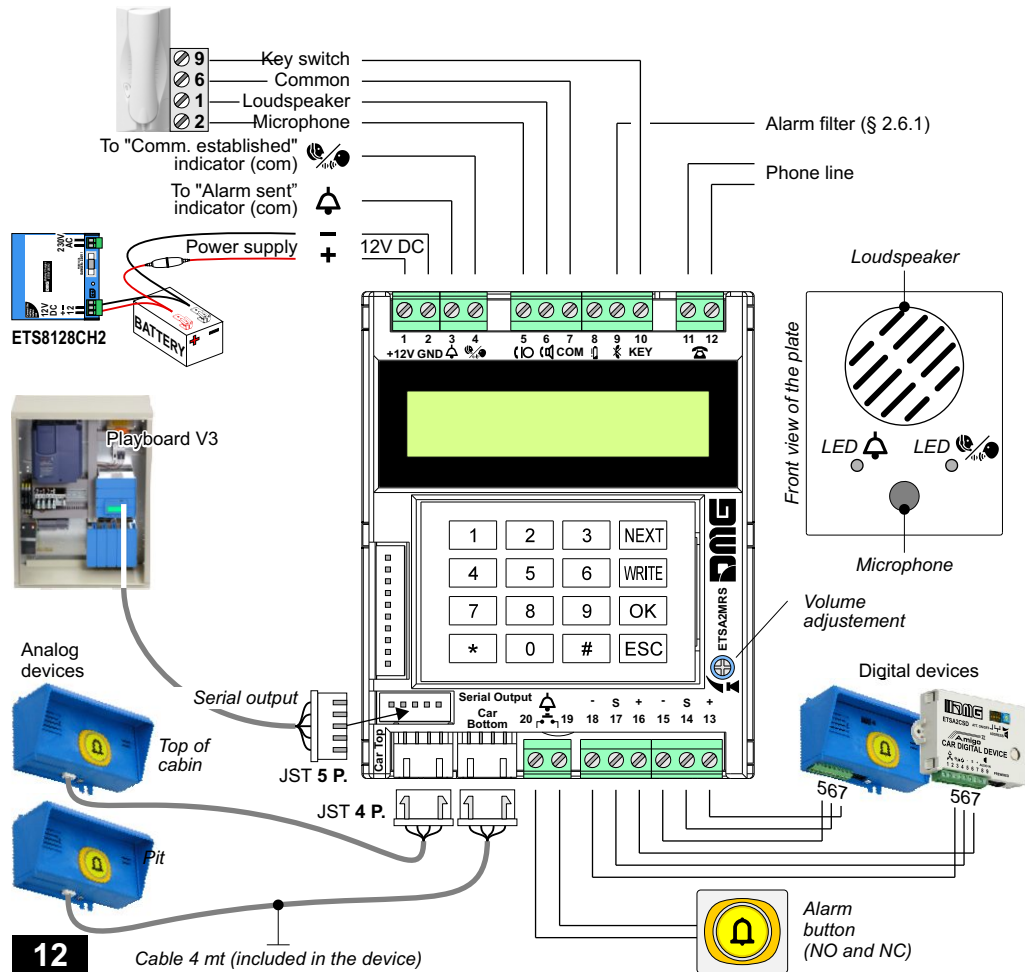




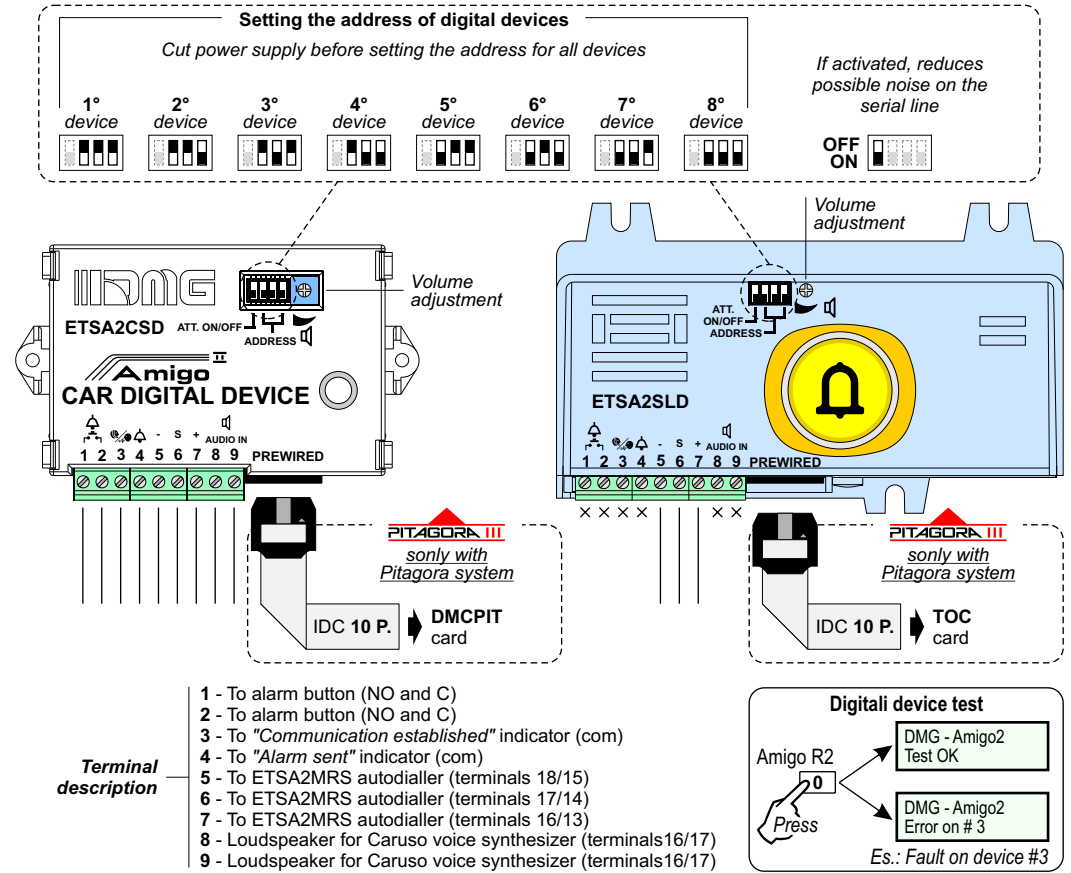
## 2.5) - BASIC CONNECTIONS

### 2.5.1) - ETSA2MRS Autodialler (installed in machine room or cabin)

1. Connect the Emergency Telephone to the slave devices (if present)
2. Connect the PHONE LINE to terminals 11 and 12
3. Connect the ALARM PUSHBUTTON (NA e NC) to its input
4. Connect the 12V DC power source to terminals 1(+) and 2(-); power up the Emergency phone subsequently
5. Make sure the screen shows "DMG - AMIGO2" followed by software release number (ex. "v.1.0")
6. To check the availability of the phone line, perform the basic programming (see § 3.1) and press the Alarm button.
7. Cut power to the autodialler of press **\*** to terminate the alarm cycle.



### 2.5.2) - Digital devices ETSA2CSD / ETSA2SLD



### 2.5.3) - Analog device ETSA2SLA

