

EA-MINI / EA-MINI-V

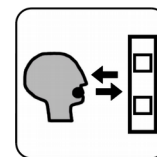
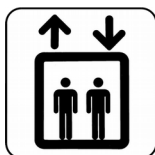


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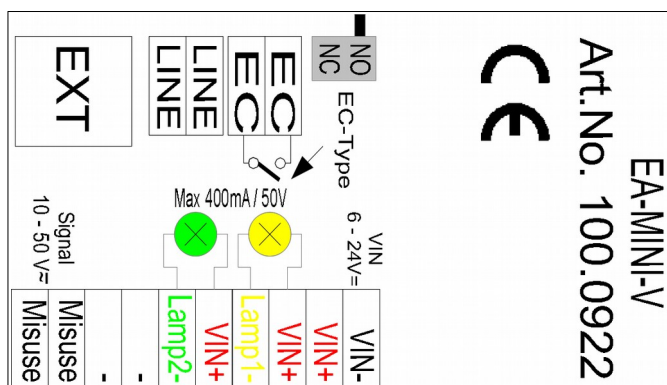
1 Overview

General:	Analogue alarm dialler (expendable with GSM interface) Up to 8 units can share a single line (to reduce costs)								
Approval:	R&TTE Directive 1999/5/EC								
Calling numbers:	1 .. 8: Alarm numbers 9: Routine call number (72h))								
Additional features:	<ul style="list-style-type: none"> • Remote programming • Dialling in (with/without) PIN-code • Misuse protection (changing door state signal) • Remote control (door opener = Doorphone) 								
Identification:	<ul style="list-style-type: none"> • PIN-code (e.g. facility number) • Individual announcement (12s): Option Voice 								
Protocols:	<ul style="list-style-type: none"> • WinMOS®300 6.1 • P100 • Ademco Contact ID 6.3 								
Supply voltage:	6 - 24 V DC / 0.25 W Standby / 0.5 W max.								
Housing:	ABS black / 112 x 56 x 21 mm (L x B x T)								
Article. Nr:	<table> <tr> <td>EA-MINI</td><td>100.0920</td></tr> <tr> <td>EA-MINI-WG</td><td>100.0921 water-resistant</td></tr> <tr> <td>EA-MINI-V</td><td>100.0922 incl. 12s individual announcement</td></tr> <tr> <td>EA-MINI-V-WG</td><td>100.0923 incl. 12s individual announcement + water-resistant</td></tr> </table>	EA-MINI	100.0920	EA-MINI-WG	100.0921 water-resistant	EA-MINI-V	100.0922 incl. 12s individual announcement	EA-MINI-V-WG	100.0923 incl. 12s individual announcement + water-resistant
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WG=water resistant

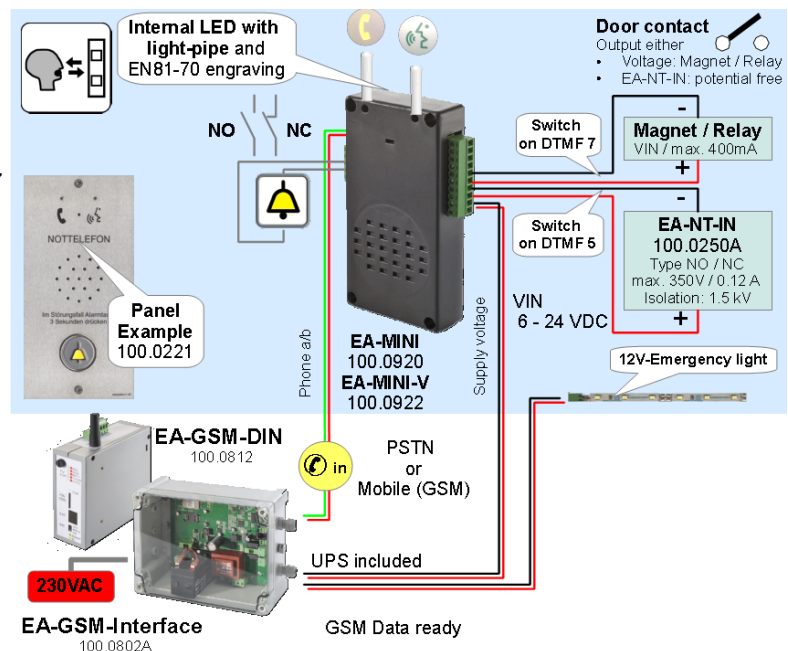
Type label



2 Applications

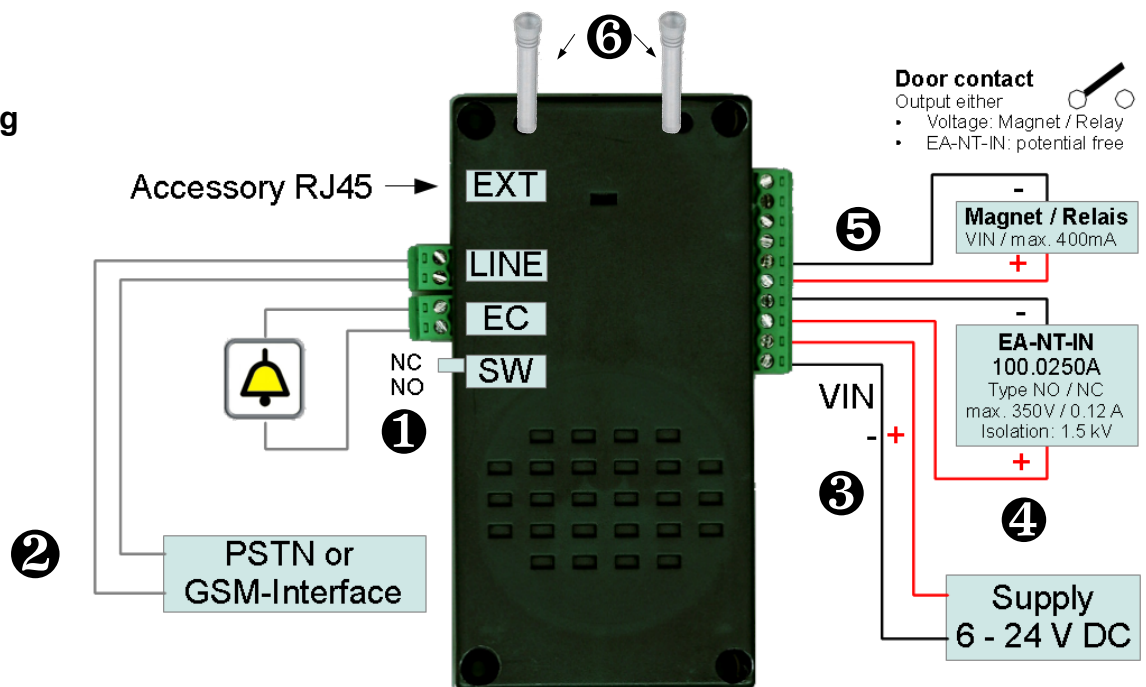
2.1 Door-phone

Telephone connection by pressing call button and door-opening function using DTMF 5 or 7



GSM optional

2.1.1 Wiring



1 Call-button Select contact type with slide switch **SW**: NO (Normally open) or NC (Normally closed)
Connect potential free emergency contact to **EC**

2 Connect telephone line (PSTN) to **LINE**
If a call starts, the setting of the emergency contact type is wrong

3 Connect supply voltage (6 - 24 V DC) to **VIN+** and **VIN-**
If the telephone line is not connected the EA-MINI will beep six times.

4 Connect door-opener between **VIN+** and **Lamp1-** (activated by DTMF 5)

5 Connect door-opener between **VIN+** and **Lamp1-** (activated by DTMF 7)
 ☞ Magnet directly, in case supply voltage is suitable and current is max. 400 mA
 ☞ Potential free contact using relay (max. 400mA) or EA-NT-IN
 ☞ Activation time is adjustable ☞ 4.3

6 EN81-70: Use light pipes for the internal LEDs or connect yellow and green

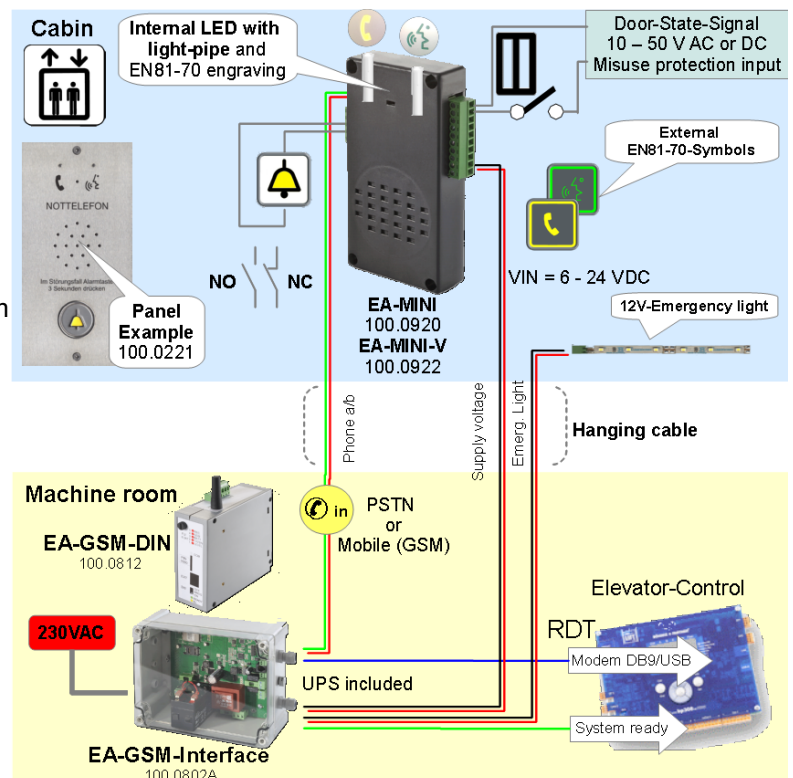
2.2 Alarm dialler

i.e. vestibules of lifts or places with risk of trapping.

or

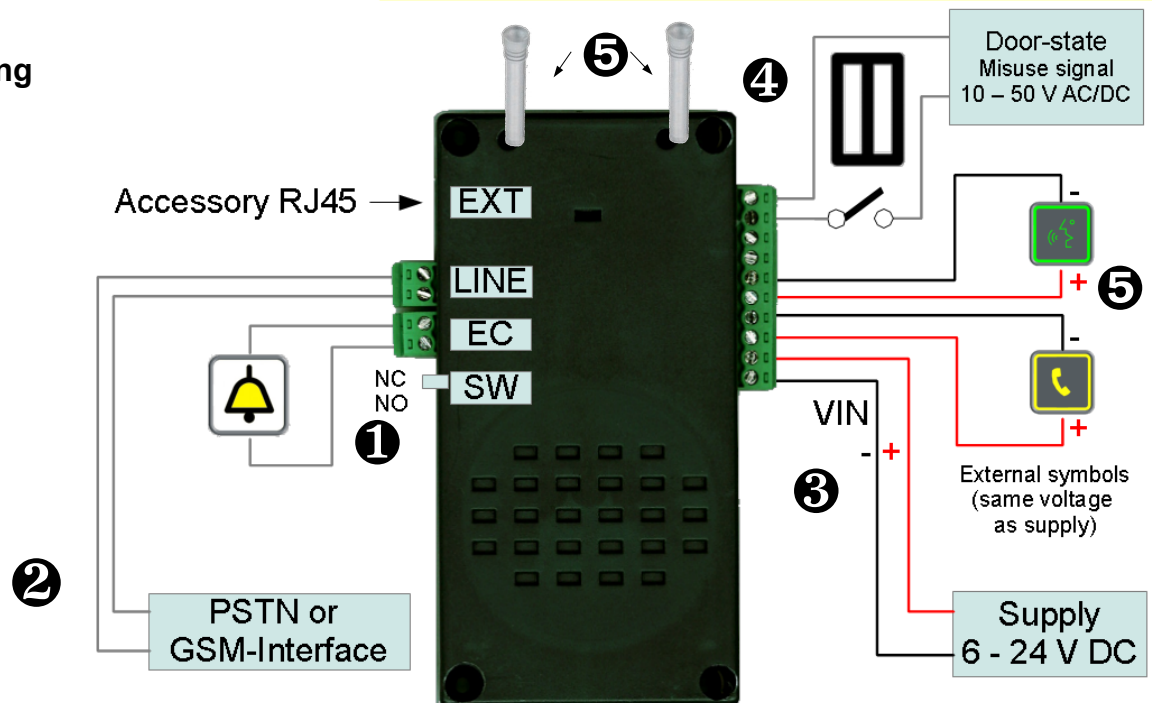
Emergency dialler with misuse protection:

Alarm will be cancelled if the signal (=door status) changes within a programmable alarm filtering time.



GSM optional

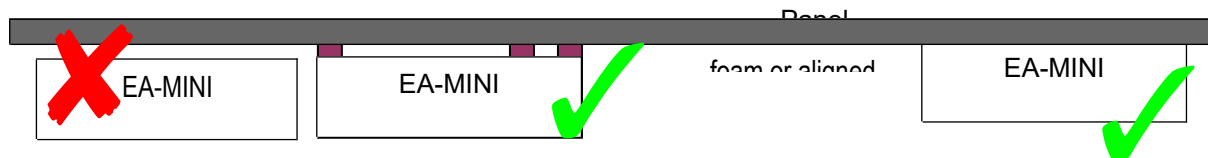
2.2.1 Wiring



- ① Emergency button Select contact type with slide switch **SW**: NO (Normally open) or NC (Normally closed)
Connect potential free emergency contact to **EC**
- ② Connect telephone line (PSTN) to **LINE**
If a call starts, the setting of the emergency contact type is wrong
- ③ Connect supply voltage (6 - 24 V DC) to **VIN+** and **VIN-**
If the telephone line is not connected the EA-MINI will beep six times.
- ④ Misuse protection: Alarm will be cancelled if the signal (=door status) changes within programmable time
Connect misuse protection signal (10 - 50 V AC or DC) to **MISUSE**
- ⑤ EN81-70: Use light pipes for the internal LEDs or connect yellow (Lamp1) and green (Lamp2) between **VIN+** and **Lamp1-** / **Lamp2-** (max. 400 mA each)
Press the alarm button for 2 seconds to check the misuse-protection. When the signal changes the EA-MINI will stop beeping two times.

3 Mechanical fitting

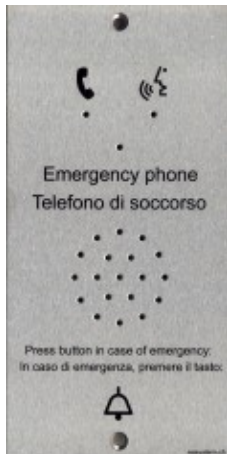
- The speaker and the microphone in particular have to be in free connection to the cabin, otherwise the communication quality decreases (reduced volume, poor hands free quality)
- Make sure the microphone hole and the panel hole fit.
- The EA-MINI must be mounted directly behind the panel without any gap, otherwise there will be an acoustic feedback. If necessary insulate speaker and microphone room acoustically using foam or rubber.
- Do not use any foil between the front panel and EA-MINI, not even in waterproof versions option: -WG.



3.1 Retrofit solutions to existing elevators

3.1.1 Chrome steel panels (flush / surface mount)

EA-TAB (without emergency button) if current button remains in use
Art. No: 100.0220



100 x 200 x 2 mm

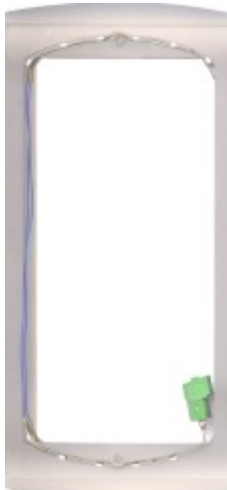
EA-TAB-NT (incl. emergency button) incl. button RT-42/Type IX, bell sublime
Art. No 100.0221



100 x 200 x 2 mm

3.1.2 Transparent frame for surface mounting of panels

Art. No: 100.0231



100 x 220 x 23 mm

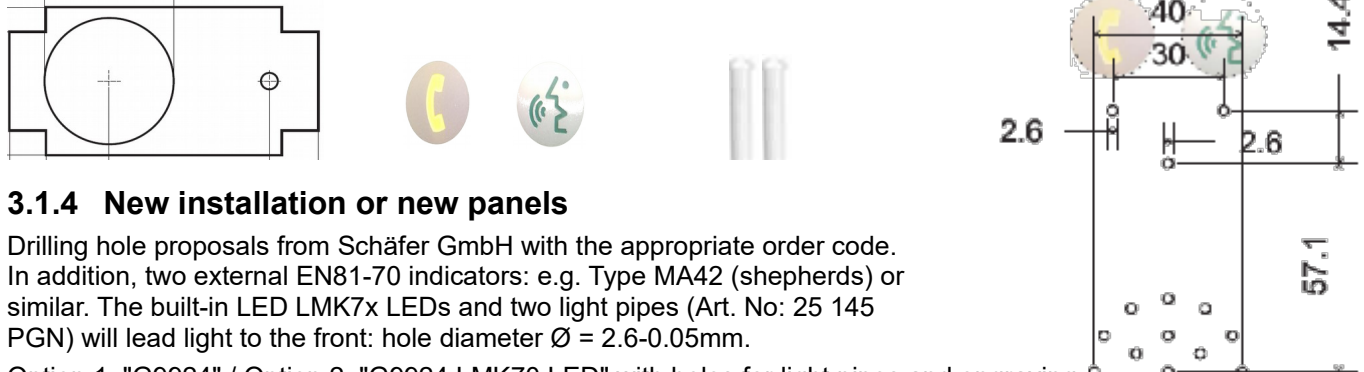


Two inlays on bottom and/or top fit LED emergency light chain

All front panels 100.022x come two suitable screws.

3.1.3 Panel drilling template with SNEL-retrofit kit (Art. No: 100.0277)

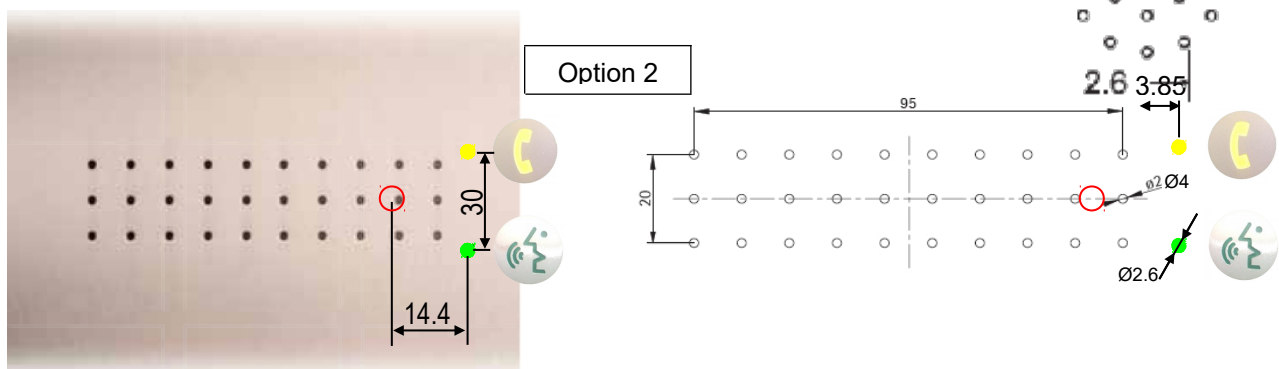
Adhesive film for easy mount sub-communication unit
EN81-70-Symbols to stick on panel front
Light pipes PGN25145



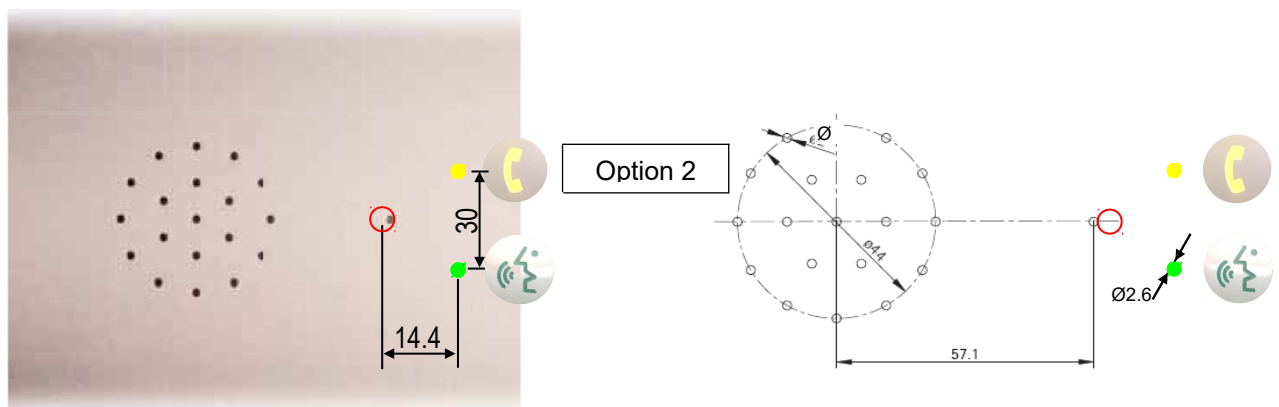
3.1.4 New installation or new panels

Drilling hole proposals from Schäfer GmbH with the appropriate order code.
 In addition, two external EN81-70 indicators: e.g. Type MA42 (shepherds) or similar. The built-in LED LMK7x LEDs and two light pipes (Art. No: 25 145 PGN) will lead light to the front: hole diameter $\varnothing = 2.6-0.05\text{mm}$.

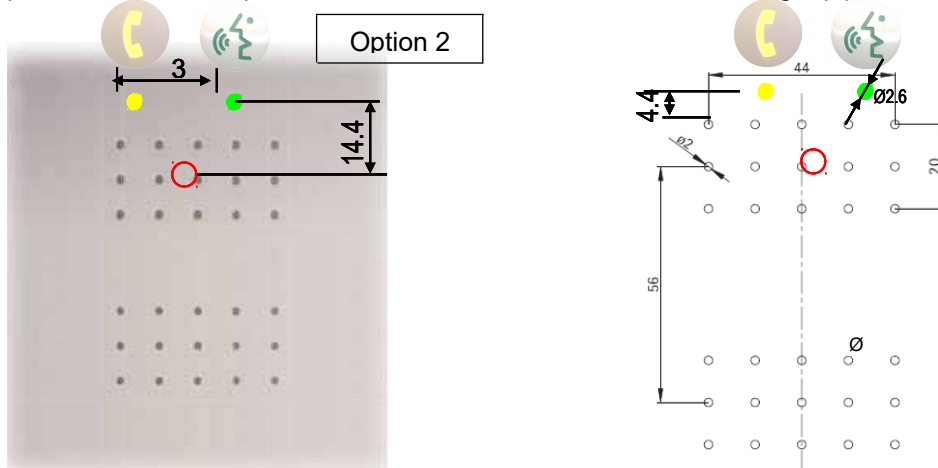
Option 1: "G9924" / Option 2: "G9924 LMK70 LED" with holes for light pipes and engraving



Option 1: "G9924wg" / Option 2: "G9924wg LMK70 LED" with holes for light pipes and engraving



Option 1: "G4824" / Option 2: "G4824 LMK70 LED" with holes for light pipes and engraving



4 Programming

To program, call the line where the EA-MINI is connected, wait until a beep is audible on the calling telephone. and enter the PIN **1234**. During the telephone connection the unit can be configured by pressing the keys of the calling telephone: (marked in this manual **123456789*0#**)

4.1 Calling numbers

	Function	<Calling-number>: up to 23 digits + #	Factory setting
* * 1	1st alarm-number		
* * 2	2nd alarm-number		#
...	-and so on-		
* * 7	7th alarm-number		#
* * 8	8th alarm-number (Test)		#
* * 9	Routine-number 9 (every 71h)		#

- # as first digit of calling-number ➡ delete this Alarm number (Alarm sequence stops)
- # as second digit ➡ Dialling pause before new digit (i.e. to get external line in case of an exchange)
- # otherwise ➡ Alarm-number completed

Example:

* * 1 8 8 8 #	First alarm-number = 888	internal 888
* * 2 0 # 0 5 6 6 4 8 4 0 4 0 #	Second alarm-number 2 = 0#0566484040	external
* * 3 #	Third alarm-number 3 = End of Alarm	
* * 9 0 # 0 5 6 6 4 8 4 0 4 3 #	Routine-number 9= 0#0566484043	external

4.2 Program PIN-Code

The pin can be changed by typing: * * * # <PIN-Code> # <PIN-Code> #

<PIN-Code> is 4 to 7 digits (Factory setting: * * * # 1 2 3 4 # 1 2 3 4 #)

Successful programming is confirmed by one beep. Two beeps mean error ➡ The old pin remains stored

4.3 Configuration

During telephone connection: * 9 7 1 3 <Parameter><Value> # 9 7 1 3 <Parameter><Value> #

Successful programming is confirmed by one beep. Two beeps mean error ➡ The old value remains stored

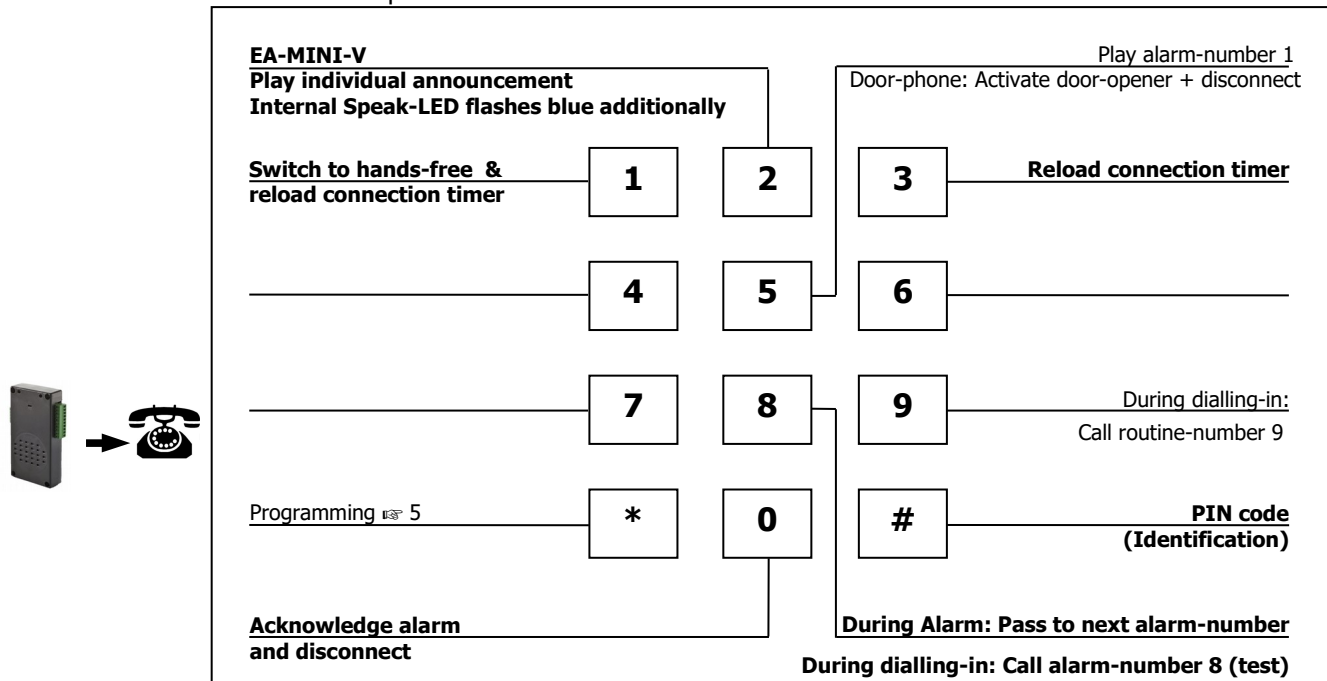
<Parameter>	Function	<Value>	Factory setting
0 0	Software-Version	99 set unit to factory settings	Software-Version
0 4	Delay on # in calling-number	0 .. 15 s	5
2 0	Play individual announcement (frequently) (MINI-V only)	0 play once repeat every 15 .. 254 seconds	0
2 4	On-hook time (5 + <Value> seconds)	0 .. 255 s	0 ➡ 5s
2 8	Routine call interval	1 .. 254 h	71
3 0	Protocol	6 Ademco ➡ 6.3 16 P100 ➡ 6.2	6
3 5	Background-Noise filter BGN	0 Disable 103 Enable	0
4 6	Dialling mode	0 Pulse-dial / 1 DTMF	1
4 7	Number of ringing-cycles	0 Dialling-in disabled 1 .. 9	2
4 8	Misuse-Protection time-out	0 .. 255 s	30 s
4 9	Dial-up time-out in service mode	1 .. 255 x 10s	12 = 120s
5 0	Dial-up time-out in hands-free mode	1 .. 255 x 10s	12 = 120s
5 1	Reload connection time-out	1 .. 255 x 10s	24 = 240s
6 6	Hands-free volume adjustment	0 .. 15	8
6 7	Door-phone: Door-open period on LAMP1	0 .. 255 s => also set 6 9 to 0	0
6 9	Activation of the green indicator	0 Door-phone 1 by DTMF 1 (manual) 4 after the dialling (auto)	1
7 0	Dialling-in sequence	0 direct / 1 two-step	0
7 1	Connection mode after dialling-in (with / without PIN)	0 PIN ➡ Service mode 1 PIN ➡ Hands-free mode 7 no PIN ➡ Hands-free mode	1
7 6	Remote-Programming	0 Disabled during alarm-call	1

		1 Enabled	
[7][9]	Activation time for emergency button	0 .. 255 * 20ms	50 = 1s

5 Instructions for alarm point

Answer call

During connection the called party can initiate remote instructions by pressing these keys on the called telephone:



If more than one alarm-number is programmed, the call must be terminated by pressing [0]. Otherwise EA-MINI will call the next alarm-number.

Additional EA-MINI-V:

Record individual announcement [*][*][#]

new individual announcement 12s

During the recording the internal Speak-LED shines blue After the recording the new text will be announced indicated by flashing blue internal Speak-LED.

Calling back the cabin



There are two different ways to dial in. Direct dialling-in or Two-step dialling-in, with or without PIN-Code

Direct dialling-in (Parameter 70=0) (Factory setting)

Dial phone number of the EA-MINI.

Two-step dialling-in (Parameter 70=1)

Dial phone number of the EA-MINI. Let it ring for two ringing cycles and disconnect (hang up). Re-dial after 20 seconds

Access with PIN-Code (Parameter 71=1) (Factory setting)

[1][2][3][4]

After the selected ringing-cycles (Parameter 47, Default = 2) EA-MINI waits for the PIN-Code (Default = 1234).

After entering correct PIN-code EA-MINI establishes a hands-free connection, announced by three beeps to inform any person inside the cabin.

Access without PIN-Code (Parameter 71=7)

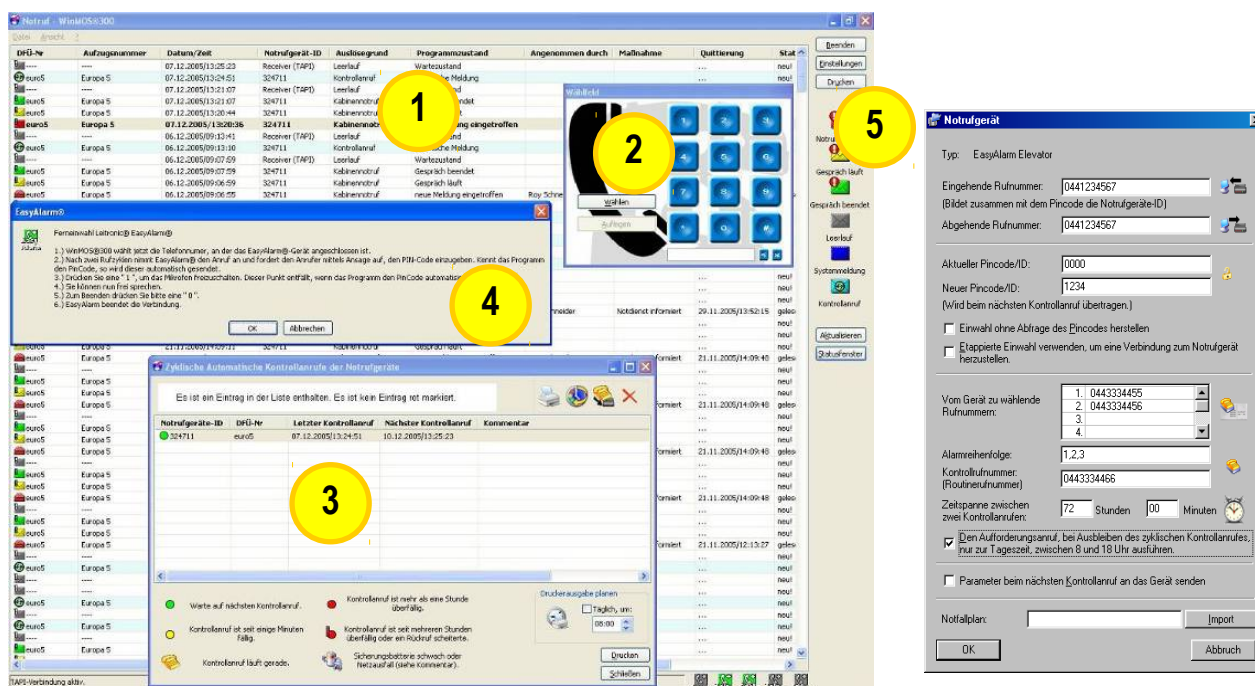
After the selected ringing-cycles (Parameter 47, Default = 2) EA-MINI establishes a hands-free connection, announced by three beeps to inform any person inside the cabin.

6 Call-Centre Solutions

6.1 WinMOS®300

WinMOS® is based on Windows-Platform.

1. Handles and logs emergency calls (automatic identification of the location)
2. Call-back function into the cabin
3. Administrative routine-calls (every 72h according to EN81-28)
4. Online help during possible interactions
5. Administrative Leitronic diallers: EA-MINI, EasyAlarm, Exicall EN70, GSM-Nano
 - Calling number
 - PIN-Code
 - Dialling-in / Remote access
 - Routine call interval



6.2 P100 protocol

The P100 is a standard emergency protocol and fully supported by EA-MINI.

6.3 Ademco Contact ID or Point ID protocol

This data-protocol is used by Call-centres and is fully supported by EA-MINI.

To make EA-MINI call in data-mode, add [*] and the attributed 4-digit ID to the corresponding calling-number.

Depending on the cause of alarm one of the following alarm-codes are transmitted:

- 120 for an emergency call
- 602 for the routine-call

i.e.: Calling-number 4 is an Ademco receiver:

[*][*][4][0][0][1][2][3][4][5][6][7][*][2][2][2][2][#] will call the number 001234567 and leave a message with ID 2222 with corresponding alarm-code.