PELEKIS
Electronic Products

Reference Manual

INTD0904
Slim Emergency Phone
for 3 point communication

Please read carefully the instructions in order to get all the benefits of this device.

Emergency Phone
for 3 point
communication

INTD0904

www.pelekis.eu

Rev. 1.0 June 2017

TÜV AUSTRIA HELLAS CE

Version history

V1.0 09/2017 initial development

V1.0 10/2022 Re-certification based on EN81-28:2022

General Description:

The INTD0904 is an electronic device which can call up to 4 (four) stored telephone numbers in case of emergency in elevators, using a single push button for operation. The INTD0904 can be placed on top, bottom, or both to the elevator car accordingly. The INTD0904 does not require other power source than a telephone line, in order to function properly.

Caution :The installation and setting of the device, must be done by qualified personnel .

The device is designed to meet the requirements of the European Directive EN 81-28 for safety in lifts.

Requirements of the standard EN81-28:

- The INTD0904 device must be connected to an authorized agent or to an Emergency Call Center.
- Provide to the Emergency Center all the necessary information for the installation in the building.
- The lift must be set out of order when the device is not connected to an Emergency Center.
- Periodically check the correct functioning of the device.

Specifications:

Input	Telephone line self powered, or 12 to 48VDC
Audio controls	Microphone to Loudspeaker balance trimmer
Microphone sensitivity	- 46dB ± 2.0, (0 dB = 1V / Pa) at 1K Hz.
Loudspeaker sensitivity	91dBA (@ 10cm)
Dimensions	103x184x24
Weight	350gr

Connection diagram:

The device is autonomous and is powered only from the telephone line.
It does not require batteries or other power supply for its basic function.
A device overview is shown in Figure1.
A typical 3-way connection diagram is shown in Figure2.

Figure1

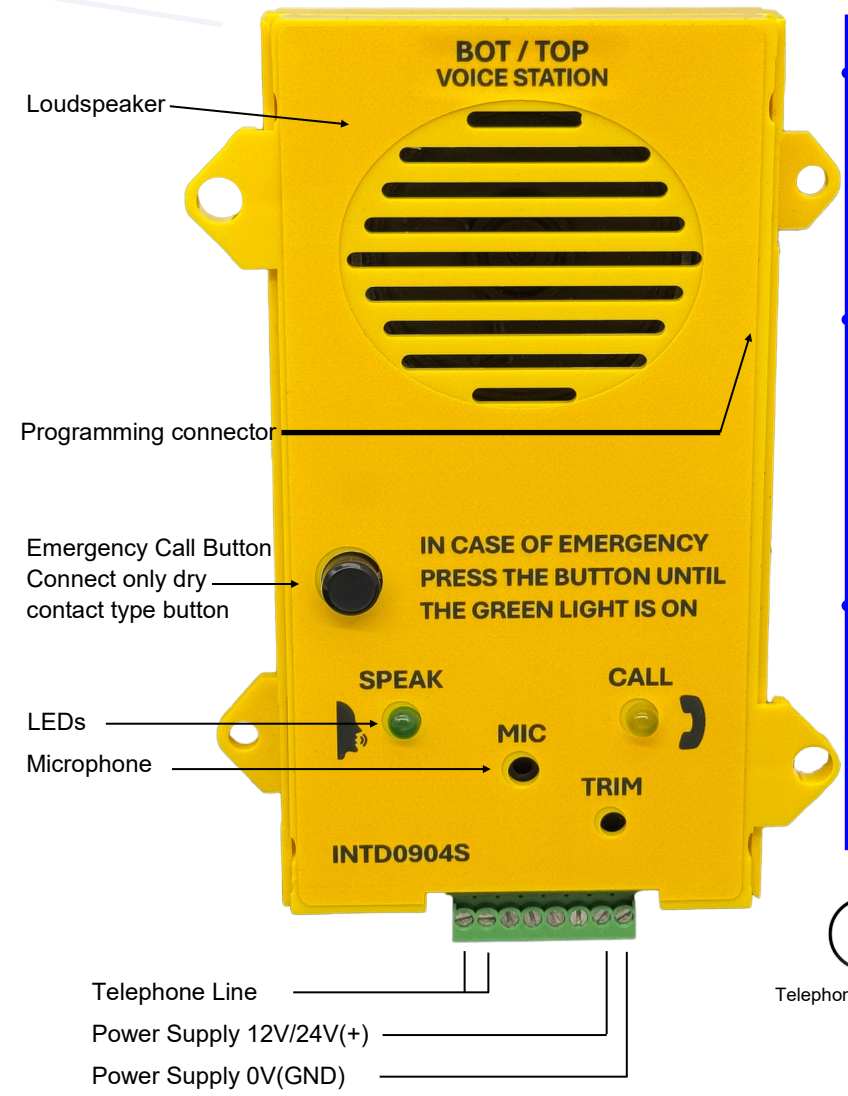
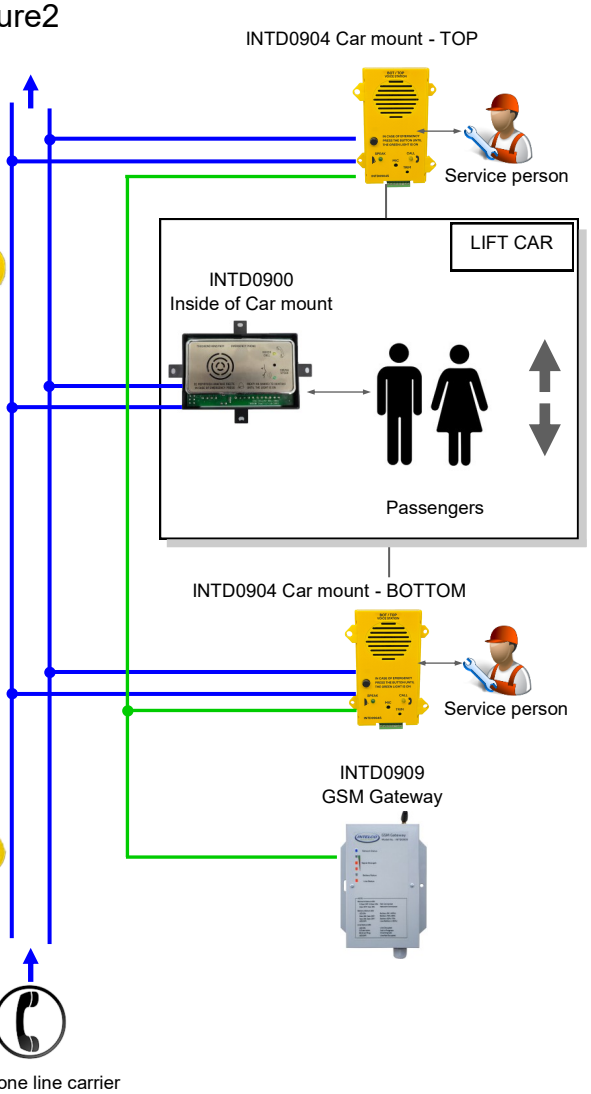


Figure2



NOTE:

When there is an Internet line connected, a filter ADSL should be placed in the terminal "LINE".
When there is a line of VOIP (Voice Over IP), the INTD0904 device should get signal from the modem and not directly from the line.
If the INTD0904 device is connected to an internal call center,
a full operational control must be made.
For any problem call SERVICE: phone 0030 210 23 23 345 / internal 221.

Device Programming:

Important - before start programming:

In order to enter programming operation of the device, a keypad must be attached to the programming connector as seen in Figure1.
Also a connection with a telephone provider is necessary, or alternatively a 9-12VDC battery connected to terminal “LINE” of device, can be used.

Enter device programming

By pressing PR (PROGRAM) key on the keypad for 1sec and then release, the yellow LED turns on and the device enters into programming mode.

Program & Store telephone numbers to memory locations

Step 1: Press the ‘S’ key followed by the desired memory location number from 1 to 4, then we hear one beep after 0.5 sec. That means that the device is ready to accept the desired telephone number.

Step2: Then we enter the desired telephone number.

Step3: Finally we finalize and store this number by pressing the ‘S’ key briefly.

The same procedure must be followed to store any other telephone number on device’s memory locations. It is possible to program each memory location from 1 to 4 sequentially (as per step 1,2) and then follow step 3 for finalizing and storing all at once.

The telephone numbers that have been formed will be stored in the internal memory of the device, in certain locations (S1, S2, S3, S4) according to the following order:

Memory 1 (S1)	**S1** 2102323345 **S**
Memory 2 (S2)	**S2** 2102323345 **S**
Memory 3(S3)	**S3** 199 **S**
Memory 4 (S4)	**S4** 6900000000 **S**

NOTE: In case of mishandling during the process of storing the telephone numbers press the PR button to close the device and repeat the procedure from the beginning.

Device Programming (continued):

Enter device programming

By pressing PR (PROGRAM) key on the keypad for 1sec and then release, the yellow LED turns on and the device enters into programming mode.

Parameter value programming

The parameter values are part of a specific sequence of keys.
All programming parameters sequence begin with the # key.
Then they are followed by a 3 digit command code and a double-beep after 0.5sec which indicates that the command has been recognized by the device, and it is ready to accept the next key sequence (The parameter value).
And finally they are followed by the parameter value*
*(Noted as ' n' on the command code table2).

The parameter value's digit length depends on the command code that has been previously inserted.

The complete command code list can be seen on table2.

Table 2.

Command Setup	Parameter value description	Factory default
#080	Adjust speaker volume. Key "1" increases tension, key "2" reduces volume. After the desired setting, press * to save. Ex. #080 1 1 1 1 * or #080 2 2 1 2*	**50%**
#086	Select AutoShip ID authentication device RED PHONE. x = * Automatically sending ID identity of the device when in state speech (speak). x = # The option is disabled. The device will send 4 digit DTMF tones .	Function deactivated **#**
#088nnnn	Change the device ID of the INTD0904. nnnn = 4 numbers which will represent the new device identity (ID).	**0000**
#089	Change password on device settings INTD0904. nnnn = 4 numbers which will represent a password on device settings. When the password is 0000 it is not required to be dialed, in order to make any settings. If the password is changed, the entry is mandatory. If the entered password is incorrect the device disconnects automatically.	**0000**

Device Programming (continued):

Command Setup	Parameter value description	Factory default
#091	Number of seconds between the 1st and the 2nd digit of the dialed number. n = Any number from 1 to 9.The number indicates how many seconds will elapse between the first and second place when the device is connected to a telephone center.	**<1>**
#095	n=Number of seconds needed for the Emergency button to be pressed until the emergency call is Activated.	**<3>**
#08i	Restore factory settings. Restores the factory settings of the device and removes all stored numbers from the memory .	

NOTE: In case of parameter invalid entry, the device automatically disconnects and shuts down. The programming procedure must be restarted by the user.

Make an emergency telephone call:

Make a call from a stored memory location

Step 1: Hold the “BUTTON” key for more than 3sec, to establish a “telephone line hold”, that is the device to get ready for the next step, the automatic stored telephone number call.

Step 2: The device will call immediately the telephone number from the stored memory location, according to the type of call termination, “Long press” or “Short press”. (See “Terminating a call” section in this page)

Terminating a call

BUTTON key - “Short press” call termination

By holding the “BUTTON” key for 0.5 to 3sec while in a telephone call, the device automatically releases the telephone line and shuts down.
The next call action will resume from the next stored memory location and its telephone number respectively.

BUTTON key - “Long press” call termination

By holding the “BUTTON” key for more than 3sec while in a telephone call, the device automatically releases the telephone line and shuts down.
The next call action will restart from the S1 memory location and its telephone number respectively.

Test before startup:

The installer must do the test after installation.
Tests before starting operation should cover the operation of the alarm system.
The control and test of the entire system must be in accordance with relevant standards of series EN 81.

• Compliance EU:

EMC Directive, **2014/30/EU** , limits electromagnetic emissions from equipment in order to ensure that, when used as intended, such equipment does not disturb radio and telecommunication, as well as other equipment. Directive **2014/30/EU** describes <At the discretion of the manufacturer, the device's conformity with the essential requirements specified in Article 3 (1) (a) and (b) can be demonstrated using the procedures set out in Directives **2014/30/EU** and **2014/35/EU** . >.
The telecommunication devices which do not use radio spectrum - telecommunications and can take part information should be subject to the procedures described in any of the Annexes II, IV or V at the discretion of the manufacturer.

On standards harmonics:

Tests	Standards	Certifier
Emissions	**EN 55022/EN12015**	**NTUA 27/9/2022**
Immunity	**EN 55024/EN12016**	**NTUA 27/9/2022**
ESD	**EN 61000-4-2**	**NTUA 27/9/2022**
RF radiated field up to 1GHz	**EN 61000-4-3**	**NTUA 27/9/2022**
RF radiated field 1-6GHz	**EN 61000-4-3**	**NTUA 27/9/2022**
Burst (DC Power & Signal&Telecom)	**EN 61000-4-4**	**NTUA 27/9/2022**
Surge (DC Power & Signal&Telecom)	**EN 61000-4-5**	**NTUA 27/9/2022**
RF Conducted Field (DC Power & Signal&Telecom)	**EN 61000-4-6**	**NTUA 27/9/2022**
Power Frequency Magnetic Fields	**EN 61000-4-8**	**NTUA 27/9/2022**

For EMC compatibility (directive 2014/35/EU AND 2014/30/EU)

National Technical University of Athens NTUA 27/9/2022

For EN81-28:2022 4,5,6 &7 EBETAM LF/A-C-0299 / 2022.
For EN81-20 art. 5.12.3 & 5.2.1.6 EBETAM LF/A-C-0299 / 2022.

PELEKIS Electronic Products	**DECLARATION OF CONFORMITY** ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ
Manufacturer's Name Όνομα κατασκευαστή	E. PELEKIS & Co Ε. ΠΕΛΕΚΗΣ και ΣΙΑ ΟΕ
Manufacturer's Address Διεύθυνση Κατασκευαστή	**Hr. Karvouni 27- AHARNAI** **Χρ. Καρβούνη 27 – ΑΧΑΡΝΑΙ**

Declares that the product: Emergency Lift Telephone

Δηλώνει, ότι το προϊόν: Τηλέφωνο ανάγκης για Ανελκυστήρα

Product Name: ***"REDPHONE FOR 3Point Communication - Technician "***

Ονομασία: ***"REDPHONE FOR 3Point Communication - Technician "***

Product types / Κωδικοί Προϊόντος: INTD0901, INTD0901V, INTD0900, INTD0900V, INTD0904S.

Conforms with the essential requirements of the EMC directive 2014/35/EU και 2014/30/EU *and the Radio & Telecommunications Terminal Equipment satisfies all the applicable standards to the product within this directives as follows:*

Emissions	**EN 55022/EN12015**
Immunity	**EN 55024/EN12016**
ESD	**EN 61000-4-2**
RF radiated field up to 1GHz	**EN 61000-4-3**
RF radiated field 1-6GHz	**EN 61000-4-3**
Burst (DC Power & Signal&Telecom)	**EN 61000-4-4**
Surge (DC Power & Signal&Telecom)	**EN 61000-4-5**
RF Conducted Field (DC Power & Signal&Telecom)	**EN 61000-4-6**
Power Frequency Magnetic Fields	**EN 61000-4-8**

Date and location/Τόπος, Ημερομηνία

ATHENS 7/11/2022

Signature /Υπογραφή

ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ ΒΙΟΜΗΧΑΝΙΚΗΣ ΕΡΕΥΝΑΣ, ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΝΑΠΤΥΞΗΣ
& ΕΡΓΑΣΤΗΡΙΑΚΩΝ ΔΟΚΙΜΩΝ, ΠΙΣΤΟΠΟΙΗΣΗΣ ΚΑΙ ΠΟΙΟΤΗΤΑΣ
MATERIALS INDUSTRIAL RESEARCH & TECHNOLOGY CENTER S.A.

EBETAM MIRTEC

CERTIFICATE OF COMPLIANCE

Certificate No: LF/A-C-0299 / 2022

Applicant/ Manufacturer / Certificate-holder:	**E. PELEKIS & Co,** **"PELEKIS ELECTRONICS"** 27 Ch. Karvouni, Aharnai, Attika GR-13671
Description/Product commercial name-Type :	**Remote alarm–emergency Phone** **for passenger and goods passenger Lifts** INTD0901,INTD0901V, INTD0900,INTD0900V,INTD0904S INTD0900F, INTD0901F
EU Directive/Norms :	2014/33/EU, Annex I, 2014/30/EU EN 81.20, § 5.12.3 and 5.2.1.6 EN 81-28: 2022, EN 12015, EN 12016, EN 61000-4, EN 55032, EN 55035
Control and testing installations :	Factory PELEKIS ELECTRONICS & CO (document control, functional tests acc. EN 81.20, § 5.12.3,5.2.1.6 and EN 81-28:2022), NTU(ΕΜΠ) Laboratory acc. (EN 12015, EN 12016, EN 61000-4, EN 55032, EN 55035)

The lift inspection and certification department of MIRTEC SA, certifies hereby that the over mentioned manufacturer has compiled a technical file in accordance with the requirements of the mentioned Norms which was submitted to us on October 2022 for examination on its completeness/compliance and archiving purposes.

The compliance verification tests took place at Factory PELEKIS ELECTRONICS & CO on 2nd & 3rd November 2022 NTU(ΕΜΠ) Laboratories, September 2022

Relevant reports: MIRTEC: LF/A-R-0299/2022, 03/11/2022
NTU, Report Nr: 9789_27.09.2022

The manufacturer has to issue the declaration of conformity and attaches the CE Marking for 2014/30/EU

This certificate is valid until November 2025.
Significant changes to the design and the manufacture of the certified product are to be notified to MIRTEC S.A.

Date of issue: 10.11.2022

MIRTEC'S certification department

I. Dimitriadis

LF_A_C_0299_22_Eng_INTD 0901

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