PELEKIS
Electronic Products

Reference Manual

INTD0902
Slim Emergency Phone + GSM Kit

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

Slim Emergency Phone in conjunction with GSM Kit.

INTD0902

www.pelekis.eu

Rev. 1.0 June 2017

TÜV AUSTRIA HELLAS CE

Version history

V1.0 06/2017 initial firmware development

General Description:

The INTD0902 is an emergency phone that can operate only in conjunction with our GSM device. It is placed inside the elevator car and can call up to 4 stored telephone numbers in case of emergency. These 4 numbers are stored in the GSM Internal memory and the emergency call progress operation is completely executed from the GSM device.

The device is user friendly using only a single push button for emergency telephone calls.

The INTD0902 does not require other power source than a telephone line provided from the GSM, 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 INTD0902 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.

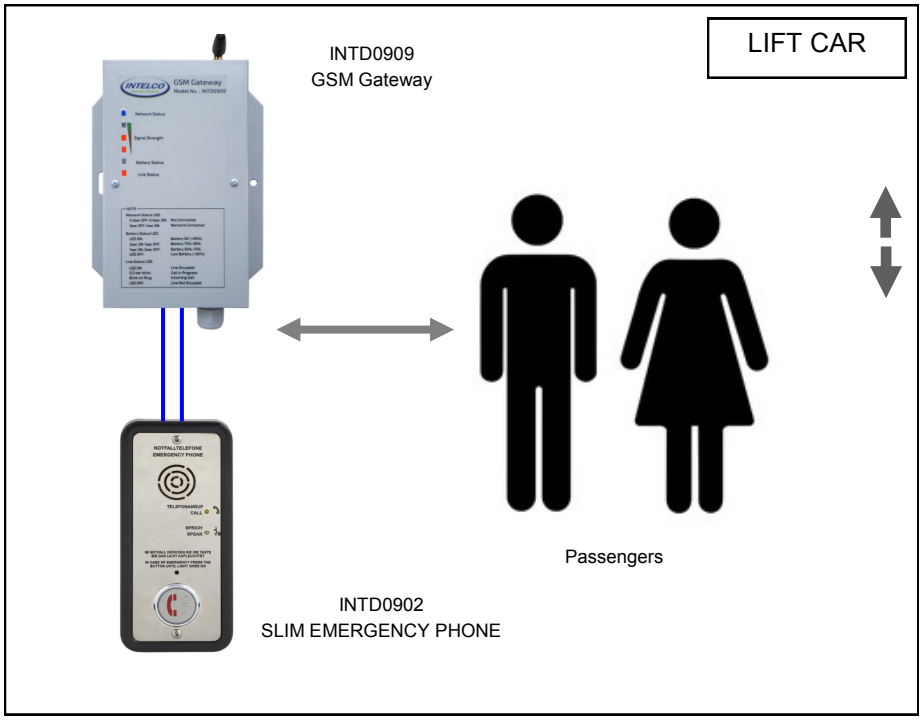
Specifications:

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	196x89x22
Weight	170gr

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.

Figure1



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 INTD0902 device should get signal from the modem and not directly from the line.
If the INTD0902 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 line or GSM carrier is necessary.
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

Note: The programming operation for the emergency call number is done through GSM device using SMS messages.

In order to program the 4 emergency telephone numbers in the GSM device, the following procedure should be done.

Step 1: Make sure a GSM device is connected with our Slim emergency phone device (INTD0902) and a SIM card is inserted into the socket. In order to ensure that GSM device is working properly and a stable connection with a telephone provider has been established, the blue LED should be blink (1s ON - 5s OFF).

Step 2: We enter a very specific key sequence in an SMS message. The string format is the following #0000#1#.
Where “0000” is the default user password to enter the GSM programming mode, and “1” is the program code to program the telephone number.

Step 3: Immediately after Step2 we enter the desired 4 telephone numbers, each one separated with commas, and we finalize the text message by entering an asterisk “*”.

Step 4: Send the SMS message.

Example:

#0000#1#2102323345,100,001234567,999*

NOTE: *If the SIM card has enough credits, an SMS message should respond with an “OK” text*.

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 INTD0902. nnnn = 4 numbers which will represent the new device identity (ID).	**0000**
#089	Change password on device settings INTD0902. 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
#093	Option for connection and operation with the GSM INTD0909 device. x = * Function activated. x = # Function deactivated. Before performing any adjustment, wait until you hear 2 beeps (OK). All memory stored in the INTD0902, will be copied to the GSM's simcard. All calling progress (busy, not answer and mobile provider) will be moderated from the GSM's microcontroller for more flexibility **CAUTION:** Valid only for the devices starting.	**Function deactivated** **< # >**
#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:

Starting a call

By holding the “BUTTON” key for time equal to “#095” command code value (default 3sec), the device will start the calling procedure.

Terminating a call

The device will automatically terminate the calling procedure after the 1st established connection has been terminated.

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:

Directive 99/5/EC 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 73/ 23/EEC and 89/336/EEC. >.
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:

CONDITION	CONFORMITY	CERTIFICATION BODIES
EMISSION	EN 55022/EN12015	Anco Lab 1/12/2003
VULNERABILITY	EN 55024/EN12016	Anco Lab 1/12/2003
ESD	EN 61000-4-2	EMC HELLAS 0044 15/09/2003
INJECT CURRENT	EN 61000-4-6	EMC HELLAS 0044 15/09/2003
MAGNETIC FIELD	EN 61000-4-8	EMC HELLAS 0044 15/09/2003
CONTINUOUS NOISE EMISSION	EN 61000-4-3	Anco Lab 1/12/2003
WAVE TRANSMISSION	EN 61000-4-5	EMC HELLAS 0044 15/09/2003
FAST TRANSIENT	EN 61000-4-4	EMC HELLAS 0044 15/09/2003

For electromagnetic compatibility (Directive 89/336/EEC)
For safety (Directive73/23/EC) ANCO SA 20/12/2003
EN 60950 § 2.1.4,2.2.3,6.1,6.2,6.2.1,6.2.1.1,6.3.1,6.3.2
For efficiency, Certificate No. 2667 17/10/2003 OTE SA
TBR21, TBR38 KAI ETS300-001.
For EN 81-28 4,5,6 & 7 EVETAM LF/AC-1155/09.

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DECLARATION OF CONFORMITY

ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

Manufacturer's Name	E. PELEKIS and Co
Manufacturer's Address	**Hr. Karvouni 27- AHARNAI**

Declares that the product: Emergency Lift Telephone

Product Name: *"**Slim Emergency Phone"***

SERIALNumber(s): FROM TO

Product types : INTD0902

Conforms with the essential requirements of the emc directive 89/336/EC and the Radio & Telecommunications Terminal Equipment directive 1999/5/EC and satisfies all the applicable standards to the product within this directives as follows:

Emission	EN 55022/EN12015
Vulnerability	EN 55024/EN12016
ESD	EN 61000-4-2
Inject Current	EN 61000-4-6
Magnetic Field	EN 61000-4-8
Continuous noise emission	EN 61000-4-3
Fast transient	EN 61000-4-4
Wave transmission	EN 61000-4-5

EN81-28 TBR21 , TBR-38 ETS300-001

article 3.1a / άρθρο 3.1α: PERFORMED/ΕΦΑΡΜΟΣΤΗΚΕ

article 3.1b / άρθρο 3.1β: PERFORMED/ ΕΦΑΡΜΟΣΤΗΚΕ

Date and location/

ATHENS 2/11/2004

Signature /Υπογραφή

EBETAM (MIRTEC)

Αρ. Πιστ.:26,27,28,64,249

ΕΤΑΙΡΕΙΑ ΒΙΟΜΗΧΑΝΙΚΗΣ ΕΡΕΥΝΑΣ & ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΝΑΠΤΥΞΗΣ ΜΕΤΑΛΛΩΝ Α.Ε. / METALLURGICAL INDUSTRIAL RESEARCH & TECHNOLOGICAL DEVELOPMENT CENTRE S.A.

CERTIFICATE OF COMPLIANCE

Certificate No: LF/A-C-1155 / 09

Applicant/ Manufacturer / Certificate-holder:	**INTELCO E. PELEKIS & Co** 27 Ch. Karvouni, Aharnai, Attika GR-13671
Description/Product commercial name-Type :	**Remote alarm – emergency Phone for passenger Lifts** RED PHONE / INTD0900 & ATED 0900
EU Directive/Norms :	95/16/EC, Annex I, 89/336/EC, 73/23/EC, 99/5/EC EN 81.1 και 2, § 14.2.3 EN 81-28: 2003, § 4,5,6και 7 EN 12015, EN 12016, EN 61000-4, EN 55022, EN 55024, EN 60950, TBR-21, TBR-38, ETS300 001
Control and testing installations :	Factory INTELCO E. PELEKIS & CO (document control, functional tests according EN 81.1 and 2, § 14.2.3 EN 81-28: 2003, § 4,5,6και 7) emc HELLAS SA Laboratories, according 89/336/EC, Anco SA Laboratories, according 73/23/EC and 89/336/EC OTE SA Laboratories according 99/5/EC

The lift testing and certification department of MIRTEC SA, certifies hereby that the over mentioned manufacturer has compiled a technical file in accordance with the requirements of Annex V of 95/16/EC which was submitted to us on 13.03.2009 for examination on its completeness and for archiving purposes.

The compliance verification tests took place at Factory INTELCO E. PELEKIS & CO according EN 81.1 and 2, § 14.2.3, EN 81-28: 2003, § 4,5,6 and 7 on 24.03.09 and emc HELLAS SA Laboratories, according 89/336/EC, Anco SA Laboratories, according 73/23/EC and 89/336/EC and OTE SA Laboratories according 99/5/EC

Relevant reports: MIRTEC: LF/A-R-1155/ 09,
emc HELLAS SA : 0044/1100/37/2003
Anco SA : SAF 74.03.1.3101.39, 01& 20.12. 2003
and OTE SA : EAD E.12/ 2667 17.10.2003

The manufacturer has to issue the declaration of conformity and attaches the CE Marking for 89/336/EC and 99/5/EC and manufacturer's certificate for 73/23/EC & 95/16/EC.

Significant changes to the design and the manufacture of the certified product are to be notified to MIRTEC S.A.

Date of issue: 27.03.2009 MIRTEC'S certification department

I. Dimitriadis

LF_A_C_1155_09_Eng_ RED PHONE ΑΕΤ: 11347 ΚΩΔ. ΕΡΓΟΥ: 33136

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