PELEKIS
Electronic Products

Reference Manual

INTD0900

Emergency Call System for elevator

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

Emergency phone

INTD0900

www.pelekis.tech

Rev. 6.3 July 2018

TÜV AUSTRIA HELLAS CE

Version history	
V5.3 07/2011	Add program code #090, #091, #092
V5.6 06/2012	Hardware upgrades
V5.7 06/2012	Add program code #093
V5.8 11/2012	Add program code #094
v6.0 06/2013	Hardware upgrades
V6.1 02/2014	Add program code #095 change function for remote control operation
V6.2 07/2018	Major firmware update - Service Call function added.
V6.3 08/2018	Add 4 internal numbers in circumstances calling an emergency number with internal call center.

General Description:

The RED PHONE device with code INTD0900 Light is an electronic device which can call up to 4 (four) predefined numbers in case of emergency in elevators.
The device is placed in the elevator car and can achieve two-way communication between the trapped passenger and the rescue service.
The RED PHONE does not require another power source apart from the telephone line, in order to operate.
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.

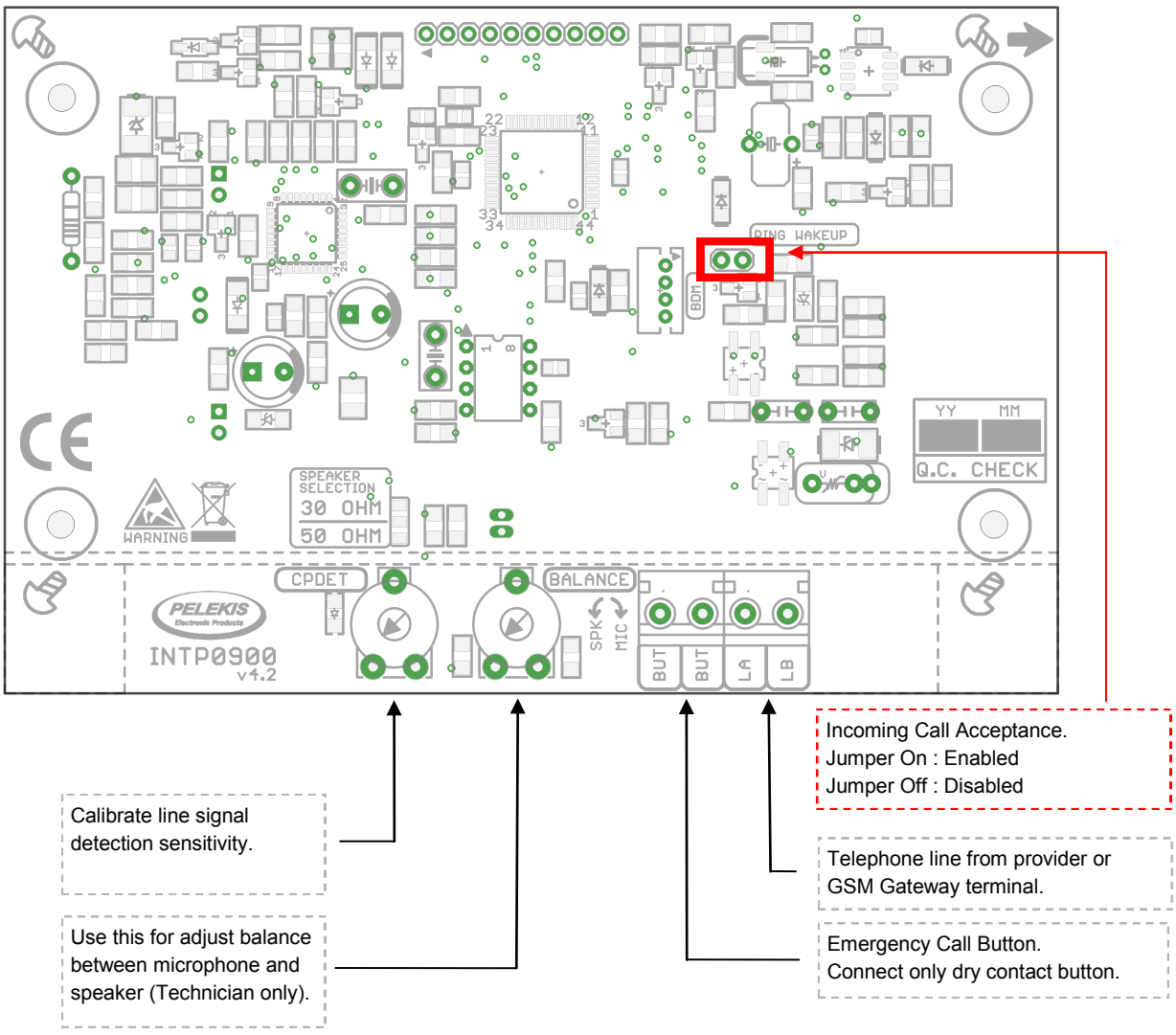
Requirements of the standard EN81-28:

- The RED PHONE device must be connected to an authorized agent or to an Emergency Call Center.
- Provide to the Emergency Center all the necessary information of the installation.
- 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.

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.

Scematic1



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 RED PHONE device should get signal from the modem and not directly from the line.
If the RED PHONE 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.

• Emergency telephone number programming:

The device has a keyboard attached for the programming operation.
A connection with a telephone provider is necessary in order to program the device.
As another option, a 9-12VDC battery connected to terminal “LINE” of device, can be used.
By pressing **PR** (PROGRAM) abbreviation on the keyboard, the yellow LED turns on and the unit enters the programming mode .
To continue the programming, the password 0000 (default setting) should be stored.

Using the parameter “#089” the password can be changed to the one of your choice .

There is no need to change the password to continue programming the device.
After each accepted command the device informs the user with two (2) beeps .
After each setting the device remains open and stands by a new command.
Press the PR button to close the programmed device.
Programming & Saving Station Numbers :
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

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.

• Internal telephone code programming:

Description & Operation:

The device can make an internal number selection for each emergency number it calls,in case the specific number belongs to a call center.

In this way, the user can specify an additional 4-digit number that corresponds to a terminal behind a call center. The user has the ability to select any number size from 1 to 4 digits.

Every emergency number that we programmed based on the previous page ,can only accept one internal telephone number.

During the emergency call the device selects the number and waits for the successful connection and speech recognition on the line. When answering the call and recognizing a speech or call center from the connected line, the device selects the internal number after 5 seconds, if it is stored in the corresponding memory location.

Programming and storing internal numbers:

To program the 4 digits, we place the device in the programming mode by pressing the PR button.

When the device opens, we create the following combinations on the keyboard to program and store the numbers in the corresponding memory locations on the device.

1	**i**1 1025S
2	**i**2 9S
3	**i**3 256S
4	**i**4 8452S

Example: To program a three-digit internal number "256" when dialing the emergency number stored in 3rd place memory, we type "i3 256S".Where i from the word internal , 3 the number of the memory in which the emergency number is stored, 256 the internal telephone number, and S from the word Save, to complete and save the procedure.

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.

• Program the “Call Service number”:

INTD0900 device can make a recurring call every 1 to 3 days on a specific phone number according to EN 81-20. This call is characterized as "Service" call and informs a call center or platform for the device’s status and its smooth operation.
For the above programming, we will need to update 2 parameters on the device:

- **Programming ‘Service’ telephone number**.
  Following the programming steps for the 4 emergency numbers as listed on the previous page, we store the Service number in exactly same way. This time we save the desired number in position 5.

Memory 5 (S5)	S5 2102323345 S

- **Set the number of days to call the "Service Call number".**
  With programming code "# 097" we can select from 1 to 3 days at the end of which, a “Service call” will be achieved to the phone number stored in memory 5.

When connected to this Service number, the device sends its serial number (factory setting "0000").

To change the serial number, see "# 088"

• Special Programming Functions:

To start the Special Programming Functions, we must open the device by pressing the PR button with the yellow LED on.
When you have finished programming the device and it is still open, press the PR button to shut it down and wait at least for 2 (two) seconds (sec). The following table, lists the programming codes.

Attention! The grayed out color codes are not compatible for devices with board version higher than v 4.1.

Special Programming Function		
Code Setup	Code Description	Factory Setting
#080	**Adjust speaker volume.** Button **"1"** increases tension, **"2"** reduces volume. After the desired setting, press ***** to save.	**50%**
#081n	**Number of rings to answer an incoming call.** **n = a** number from 0 to 9. This number indicates how many times the device will ring before answering. By placing the number 0, the device does not respond.	**—**
#082	**Set up ISDN (deactivation of the dismissal delay).** The device opens and automatically dials the code ** 71 # to cancel the dismissal delay. The device sends a signal (ok) after 1 (one) second (sec).	**—**
#083	**Set up ISDN (flash time acceptance).** The device opens and automatically dials the code ** 25 * 20 # to set the flash time acceptance to less than 200 msec. The device sends a signal (ok) after 1 (one) second (sec).	**—**
#084x	**Select call termination during communication.** With **x = *** the user can end the call during communication (green light on) if the button is pressed for more than 3 seconds. With **x = #** the option is deactivated.	Disabled Mode **#**
#085x	**Select filter input acceptance.** With * the user has the ability to activate the input of the filter and to interfere with it as defined by the Regulation. The # option is deactivated.	**—**
#086x	**Select RED PHONE ID send when call connected.** With **x = *** the device automatically sends the ID of the device when it comes to speaker mode. With **x = #** the option is deactivated.	Disabled Mode **#**

Special Programming Function		
Code Setup	Code Description	Factory Setting
#087n	**Select the device's function.** This code sets the main operation mode of the device. • n = 0, (Normal mode) • n = 1, (Hook off-not dialing) • n = 2, (Hook off - keypad enabled) ***Normal mode:*** The device makes an emergency call with the stored numbers from its internal memory. ***Hook off-not dialing :*** The device takes over the line without making any number selection and so no emergency call. ***Hook off—keypad enabled:*** The device takes over the line and the number is selected by the external metal keypad.	**Normal Mode 0**
#088nnnn	**Change the RED PHONE device ID.** **nnnn = 4** numbers representing the new device ID.	**0000**
#089nnnn	**Change password in RED PHONE settings.** **nnnn = 4** numbers that will represent the password in the device settings. When the code is 0000, it is not required in order to entering the programming mode. If a password is changed then its input is required only when entering programming mode. If the password is entered wrong, the device will shut down.	**0000**
#090x	**Select tone or pulse system.** With **x = *** pulse system selection. With **x = #** tone system selection.	**—**

Special Programming Function		
Code Setup	Code Description	Factory Setting
#091n	**Number of seconds between 1st and 2nd digits of the called number.** For **0 <n <= 3**: The device pauses a time equal to the stored value between 1st and 2nd digits when selecting the called number.	**< 1 >**
#092n	**Number of called number calls.** For **0 <n <= 5**: The device counts dial tones on called number and when it exceeds the stored value it performs the next call according to the saved settings.	**< 5 >**
#093x	**Select to connect and operate with a device GSM INTD0909.** For **x = *** device upload its memory to the GSM Gateway unit. With **x = #** device take over the Call Progress without the help of the GSM Gateway unit. Before proceeding with any other setting, wait until you hear the 2 beeps (ok). **Caution: Applies only to devices that have a number series of S/N 5326i or higher.**	**Disabled Mode** **< # >**
#094x	**Confirm acceptance of an outgoing call from a rescue center.** With **x = *** activation mode. With **x = #** disable operation. Attention: The rescue team must type * 1 * at the end of the call. If this is not done within 15 seconds, the RED PHONE will call the next number. After accepting a call, there are additional features: * 1 #, End call * 2 *, Device ID query * 3 #, Enable Relay * 4 *, Enable Latch mode for Relay (Press the 4 key pressed). **! Caution: Applies only to devices having the (ia) ending in the serial number.**	**—**

Special Programming Function		
Code Setup	Code Description	Factory Setting
#095n	**Emergency Button Delay Time to turn on the device.** For **0 <n <= 5**: The second that the emergency button should be kept pressed before device turned On.	**< 3 >**
#096n	**Select Flash Time.** Set the telephone line disconnect (Flash) period that occurs during the dismissal of an active call with the next For **0 <n <= 5**: The device is releasing the telephone line for a time period, equal to the stored value during the emergency call progress process.	**< 3 >**
#097n	**Set the number of days to call the "Service Call number".** For **1 <= n <= 3**: The device dials the “Service Call Number” if it is stored in memory “S5”, periodically every 1 to 3 days according the **“n”** number. For **n = 0**: The process is deactivated and device does not make the recurring call.	**< 0 >**
#098x	**Select automatic call deactivation after 3 minutes.** With **x = ***, automatic *call deactivation* is activated after 3 minutes. With **x = #** automatic *call deactivation* is deactivated	**Enabled Mode** **< * >**
#08i	**Restore factory settings.** Resets the factory settings of the device and deletes the 5 stored numbers.	

- Description of Operation:

Automatic connection to the rescue service by pushing a button :
Press and hold the button labeled “PHONE” for four seconds (4sec).
The yellow indicator LED will turn on and start the automatic dialing of stored numbers.
The device dials first the emergency number stored in position 1 (M1) .
If the number is busy or does not answer, the device starts dialing the next stored number and so on.
The above procedure is repeated three (3) times consecutively numbered M1, M2, M3 and M4 . On condition that the twelve (12) attempts fail , the device will shut off and you must repeat the process .

Caution! The RED PHONE will not ring when accepting an external call, so the person who makes the call should start talking first.

Caution! The RED PHONE device will not operate properly if it is connected to an answering machine terminal.

• 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

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

Declares that the product: Emergency Lift Telephone

Product Name: ***"RED PHONE"***

SERIALNumber(s): FROM TO

Product types : INTD0900/ ATED0900

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: PERFORMED

article 3.1b: PERFORMED

Date and location/

ATHENS 2/11/2004

Signature

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

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• Technical support

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