

# **Baby Listen detailed instructions**

Dec. 2009

## **Introduction**

The BL-EA is a small telecom emergency device, which has to be connected on a tel. line (like a normal telephone) and it works powered only by it. In most cases, it is connected in parallel with a “tone” telephone set. Normally, it is delivered in a dedicated plastic “box” but there is the possibility to be delivered as a printed board in order to be connected permanently, IN the telephone set or IN the tel. socket.

It is programmable by the tone telephone set, with which it is connected in parallel (or by a special programmer for saving time, if there is a big amount of BL-EA to be programmed) and it keeps the programmed values even if it is disconnected from the telephone line for long periods (no power).

The BL-EA has an integrated microphone (for the BL application – BL=Baby Listening) and 2 connectors (or one double), one two-wire for the telephone line and one two-wire too, for connection of an external simple mechanical contact switch (for EA application – EA=External Alarm).

In general, the BL-EA, is triggered either by loud noise in the area in which is installed or/and by closing the external switch (only if it is connected with it).

In both cases it dials a telephone number (programmable and the same or different in each case) and .....*see next paragraph (Operation)*.

After a sound trigger, the BL will be not triggered again for 2 minutes.

This time is cancelled when the parallel connected phone goes off hook (e.g. in a operation test case).

Typical application of a BL-EA use is to monitor a baby’s sleep and to care for someone who takes a bath (in a bathroom with a pulling alarm switch), an application very useful in hotels.

Other applications are to monitor what is happening in a room, or to be alarmed by a smoke detector (with a contact switch integrated) etc.

## **Operation**

### **1. The EA always works when the device is connected to the external alarm switch (independently from the BL mode).**

It means that if the external switch closes, the BL-EA calls ( for 20 secs) a (programmable) telephone number (up to 16 digits), e.g. the emergency dept. of the hotel. The called party sees on the display of its telephone the called number (caller ID feature) and acts relatively. If the called party goes off hook, it hears a special beep tone (emergency tone) for 20 secs from the start of dialing.

### **2. The BL has the following operational modes :**

#### **BL idle mode 0**

The BL does not work.

#### **BL active mode 1**

- It calls outgoing (a programmable tel. number) for To (programmable) secs, when it becomes activated by a loud noise in the integrated microphone. This time can be ended sooner, if the called party goes off hook and dials 9.
- Incoming calls are rejected (off hook immediately before ringing starts, off hook for 1 sec and thereafter on hook ) in order to avoid the ringing.
- In OFF HOOK by the user, it creates a high tone single beep every 5 secs ( to remind him that this mode is activated). Normally, if the user comes in the room, he must command the unit to go in mode 0. *See : followed USERs commands, in the end.*

#### **BL active mode 2**

- It calls outgoing .....as in mode 1 .  
ADDITIONALLY it allows the called party to hear what has happened (through the microphone) for To (programmable) secs (from the start of dialing) or shorter if the called party dials 9 to end the connection.
- Incoming calls are rejected ..... as in mode 1.
- In OFF HOOK by the user, it creates a high tone double beep every 5 secs ( to ..... as in mode 1 .

#### **BL active mode 3**

- It calls outgoing ..... as in mode 2.
- Incoming calls are not rejected. In an incoming call the BL-EA goes immediately OFF HOOK (without ringing) and waits (for 10 secs from the start of dialing) for the caller to dial UUUU in order to allow him to hear what is happened in the room, for Ti (programmable) secs (from the start of dialing), or shorter if the caller dials 9 to end the connection. If no UUUU is dialed by the called party, the connection is ended in Ti secs.
- In OFF HOOK by the user, it creates a high tone triple beep every 5 secs ( to ..... as in mode 1 .

## PROGRAMMING

(in any mode, by the tone telephone, which is connected in parallel, on a tel. line)

- Go off hook
- Within 4 secs start programming by dialing the relative commands. If , within this time, you don't dial or you dial any digit except #, the BL-EA stays in "no programming" mode.

The format of all commands (except the "reset" one) is : **## XX PIN xx...#**

Where: XX is the 2-digit CODE of the command.

PIN is the 4-digit PIN of the command. There are 3 different PINS:

SSSS : Supervisor PIN (default : 3333)

TTTT : Technician PIN (default : 2222)

UUUU : User PIN (default : 1111)

xx... are the 4-digits or 1-16-digits or 1-digit value of the command.

Each programming command must be completed within 10 secs.

Pressing the ending #, you hear a short high tone beep, confirming that the command is accepted and saved or a long low tone beep informing that the command is not accepted.

### SET UP commands

*default settings*

- |                        |  |             |
|------------------------|--|-------------|
| 1. ## 21 SSSS uuuu#    | Define new User PIN : uuuu   | <b>1111</b> |
| 2. ## 22 SSSS tttt#    | Define new Technician PIN : tttt   | <b>2222</b> |
| 3. ## 23 SSSS ssss#    | Define new Supervisor PIN : ssss   | <b>3333</b> |
| 4. ## 31 TTTT xxx....# | Define tel. number to be dialed (xxx....) on sound alarm (up to 16 digits).                                  | <b>111</b>  |
| 5. ## 32 TTTT xxx....# | Define tel. number to be dialed (xxx....) on external switch alarm (up to 16 digits).                        | <b>112</b>  |
| 6. ## 35 TTTT x #      | Set sound sensitivity<br>(x = 1 to 9. The 1 is the more sensitive)   | <b>7</b>    |
| 7. ## 37 TTTT x #      | Set time duration in outgoing alarm calls (To)   | <b>7</b>    |
| 8. ## 38 TTTT x #      | Set time duration in incoming checking call (Ti)<br>(necessary to be changed, if BL-act. mode 3 is required) | <b>0</b>    |
| 9. ## 88 TTTT #        | Save parameters. It must be given always in the end of the whole SET UP programming.                         |             |

### **Notes**

On par. 7, 8 : Time durations are defined in secs, by multiplying the code number (x=1-8) by 16. For example: If you set x=3, the time is 3times16=48 secs. x=0 means no listening is allowed and x=9 means listening time is 30 minutes. It is understood that these times are the maximum times and begin from start of dialing. If the other party, (before the above times are expired) is off hook and dials 9, the calls are ended. Attention : If the other party goes on hook, without dialing 9, then the BL is blocked until the expiration of the relative time To or Ti.

### **USERS commands**

## \* # Set the BL operation in mode 0 (no working).  
## 42 UUUU M # Set the BL operation mode (M= 1 to 3) (par.: Operation 2, page 1 above).

### **Notes**

1. After the above USER commands, the user can check the valid BL operation mode by hearing in the handset of the phone, the characteristic single, double or triple confirming tone.
2. Under customer request, can be installed on the unit an ON/OFF switch and/or a relative LED.
3. Sometimes the User has to give some of the SET UP command as well, e.g. the command 4) or 6) together with 9).

### **SUPERVISOR (only) command**

## 845654 # Resets all the values to the default ones.