

**PROGRAMMING  
AND USE INSTRUCTIONS  
FOR THE  
"NO PHONE BILL" INTERFACE**

**Sentexsystems**



## **IMPORTANT NOTICE**

If the "No Phone Bill" Interface (hereafter referred to as NPBI) is programmed incorrectly, the system may function improperly and is likely to cause you and others a great deal of inconvenience. Similarly, there are certain key things you and others in your building/complex must know about using and maintaining the system. Thus, you should take the time to read these instructions completely before attempting to program or use the NPBI. If you have any questions, your installing dealer will be happy to assist you.

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# 1 - SYSTEM OVERVIEW

The NPBI enables your Sentex system to become a telephone entry system for multi-resident buildings that connects directly to all of the resident telephone lines in your building. Thus, residents are called without dialing through the central office. As a result, the NPBI does not generate telephone monthly line or per call charges.

The system is made up of three basic components:

1. **The NPBI Controller** enables the system to control switching of the resident's telephone lines to the visitor. This unit is housed in a plain NEMA-type enclosure which is mounted in the telephone room or utility closet. The controller for each of these systems is then connected to a "stack" of LIBs, each of which in turn is connected to twelve resident telephone lines.
2. **The Line Interface Boards (LIBs)** allow each resident's telephone line to be connected to the NPBI controller when a visitor wants to contact that resident. At all other times, the resident's telephone line is connected directly to the telephone company. The LIBs are contained in an LIB housing. The LIB housing is mounted somewhere inside the building, usually close to the telephone junction box.
3. **The Entry Panel** is the part of the system that is located at the entrance of the building/complex and is where the visitor will attempt to contact the resident. This unit will enclose the entry system board (i.e., a Horizon or an Infinity board) which will then be connected to the NPBI Controller. The entry panel housing will vary depending on the type of entry system that was purchased with the NPBI.

**PLEASE NOTE:** Information regarding the programming and the installation of additional features to the entry panel are not included in this manual. Please refer to the documents enclosed with the entry panel for this information.

The NPBI also adds the ability to provide call waiting to the resident. If the tenant's telephone is in use, he/she will hear two short tones to signal that a visitor is attempting to contact them. The resident can then dial a "2" and the call in progress will be put on hold and the line will be connected to the visitor. The resident can then communicate with the visitor and allow entry (by dialing a "9" or in some cases a "3", "5", or "7"), at which point he/she will be automatically switched back to the telephone call in progress. The resident can also deny entry to a visitor while on another call. For a resident to deny a call from a visitor, he/she can press the "★" key and the resident will automatically be switched back to the previous call. The NPBI has the ability to provide a distinctive ring (a double ring) in order to alert the resident that the call is from the entry system.

## **2 - BASIC PROGRAMMING RULES**

This section covers some general rules or conventions about programming the NPBI. Master these few basic rules so you can program the system correctly. **NOTE:** This manual only covers programming for the NPBI. Your entry panel system need to be programmed separately. Please refer to the programming manual that came with your system for these instructions.

### **A. Entering and Exiting the Program Mode**

To start programming, use the keypad mounted inside the controller's housing. To enter the programming mode, enter three asterisks (\*\*\*), followed by the six-digit user defined password (factory set 000000). The unit will respond by displaying a "P".

After you have finished programming the NPBI, you can exit the programming mode when a step has been successfully completed and a "P" is displayed. You can then press the "\*" key on the keypad to exit the program mode.

### **B. Entering Data**

When programming the NPBI, the step number is entered, then the data, and finally the "# " key. The "# " key enters the information into the system's memory. If the "step" and "data" information is correct, the "P" will return to the display when the "# " key is pressed.

### **C. Error Codes and Signals**

If an entry is incorrect, the display will show one of the following codes to signify an error condition:

- E 1-out of range or format error
- E 2-code already exists
- E 3-memory full
- E 4-Code not in system
- E 5-no LIB at this address
- E 6-multiple LIBs are set to the same address

The system will wait for properly entered "step" and "data". If you realize in the middle of an entry that you have made an error, press the "\*" key and this will cancel the command. You may then re-enter your command.

### **D. Checking the Settings**

To check settings or information stored in the memory, enter the step number followed by the "# " key on the keypad. The display will then show the setting that you have entered for that step number.

### **E. Programming Limitations**

The programming mode may not be entered when a visitor is in contact with a resident, during an "alarm call", or if the system is to be programmed via modem and all of the manager lines are busy.

### **3 - THE MAIN PROGRAMMING MENU**

Once you have entered the programming mode, these commands are available. This outline of commands should be used as reference after you have completely read and understood each of the programming steps. Each of these programming steps is discussed in detail in the following pages, including an explanation of what you are trying to accomplish in each area.

<b>STEP</b>	<b>PURPOSE</b>	<b>DIGITS</b>	<b>ACCEPTABLE INPUT</b>
01	Set programming access code	6	0 thru 9
02	Set double ring mode	1	0=off, 1=on
03	Set call waiting off/on for a single line	6	(LIB no. + relay no.) + 0=off, 1=on
04	Set call waiting on/off for the entire system	1	0=off, 1=on
05	Set answer ring count	1	1 thru 9
13	Enter manager line addresses	6	(mgr ID #, 1 thru 5 + LIB # + relay #)
23	Ring resident line from test site	5	LIB address + relay no.
24	Select resident line	5	LIB address + relay no.

## **4 - PROGRAMMING THE ENTRY PANEL**

The entry panel needs to be programmed separately from the NPBI in accordance with the entry panel's programming instructions (the programming instructions are provided with the entry panel). However, programming telephone numbers and the alarm call feature differs from the instructions in the entry panel's programming manual. Also, remotely programming the entry panel requires some additional steps to establish communication with the entry panel through the NPBI. An explanation of each of these steps is described below.

### **PROGRAMMING TELEPHONE NUMBERS**

1. Enter the programming mode for your system.
2. Using the "Entering A Telephone Number" programming step for your system, program the five-digit LIB address, instead of the resident's telephone number, for the apartment you wish to contact.

### **ALARM CALL FEATURE**

If your system has the alarm call feature, you can program the system to call any unit in your complex by entering the five-digit LIB address. If you wish to call an outside line, program a seven to eleven digit telephone number. The NPBI will dial this number on the first available manager line.

### **REMOTELY PROGRAMMING THE ENTRY PANEL**

1. Call the manager line 1 telephone number of the NPBI system you wish to contact from any tone dialing telephone or modem.
2. When the system answers, you will hear a single tone, a five second pause, and then either you will hear your system say "hello" or you will hear a modem carrier tone.
3. When your system says "hello" or connects with your modem, enter "★" and the programming access code. You can then use the programming instructions to program and control the system.

NOTE: If the manager's line has an answering machine connected to it, and the answering machine picks up the incoming call, the system will allow the "★ + <ID code>" to be entered anyway. The caller will only be allowed 15 seconds to enter these digits. If the caller does not enter these digits in the specified time, the system will "time out" and it assumes the caller did not wish to program the system.

## 5 - INITIAL SYSTEM SETUP

The programming steps discussed in this section are used when you first configure the NPBI. Most of these programming steps have factory settings that will be appropriate in many situations (they are indicated where they exist). For the following steps, you will need to use the keypad located in the NPBI controller.

Remember, if you make a mistake in an entry, press the "★" key, and this will cancel the command. To tell the system that you have completed an entry, press the "# " key.

### STEP 01 - SETTING THE PROGRAMMING ACCESS CODE

**Purpose** To change the code that must be used to enter the programming mode to a combination that will be secret and easy to remember. **Factory Setting = 000000.**

**Format** 01 + (6 digits, 0 thru 9) + #

**Example** 01 + 123456 + # (sets the programming access code to 123456)

### STEP 02 - SETTING THE DOUBLE RING MODE

**Purpose** Sets the type of ring the system will use to signal the resident. Setting the system to a "double ring" allows the resident to determine if the call is coming from the system or is a normal telephone call. **Factory Setting = on.**

**Format** 02 + 1 digit (1=on, 0=off) + #

**Example** 02 + 0 + # (turns the double ring off)

### STEP 03 - SET CALL WAITING ON/OFF FOR A SINGLE LINE (option)

**Purpose** This step is used if a resident does not desire call waiting on his/her telephone line. It also can be used to turn call waiting back on should the resident wish to have that feature.

**Format** 03 + 6 digits (3 digit LIB address and 2 digit line number + 1=on, 0=off) + #

**Example** 03 + 003050 + # (sets LIB number 003, line 5 so call waiting will not interrupt that line).

**Important Notes** This command can be used to turn off or on call waiting option for as many lines as is necessary. To check to see if call waiting is set off for a particular line, enter 03 followed by the "# " key. This will send a list of all lines which have call waiting turned off to the display. Call waiting will not interrupt a line if a modem or fax signal is detected, even if call waiting is turned on. To reset all lines to the "call waiting on" state, enter 03 + 000000 + ###. All lines previously turned off will be turned back on.

## **STEP 04 - SET CALL WAITING ON/OFF FOR THE ENTIRE SYSTEM**

- Purpose** To enable or disable the call waiting feature for the entire system. **Factory Setting = On.**
- Format** 04 + 1 digit (1=on, 0=off) + #
- Example** 04 + 0 + # (sets call waiting off for the entire system)
- Important Notes** When this step is set to off, it will override the settings made in step 3.

## **STEP 05 - SETTING ANSWER RING COUNT**

- Purpose** Sets the number of rings before the system will automatically answer. The system will automatically answer the manager's telephone after the programmed number of rings set in this step. This would be used for programming the unit which has the entry panel attached to it. **Factory Setting = 5 rings.**
- Format** 05 + 1 digit (1 thru 9) + #
- Example** 05 + 4 + # (sets the system to answer after 4 rings.)
- Important Notes** You can also turn off the automatic answer function by entering a "0" for the one digit entry after you enter into this step.

## **STEP 13 - SETTING THE MANAGER LINE ADDRESSES**

- Purpose** Sets the lines which are called for remote programming of the system. These lines are also used for an "alarm call", and for gate control functions, if these options are purchased with the unit.
- Format** 13 + 6 digits [manager ID no. (1 thru 5) + LIB address + 2 digit line number] + #
- Example** 13 + 1 + 123 + 03 + # (sets manager ID no. 1 to LIB number 123, line number 3).
- Important Notes** Up to five manager lines can be set and these lines are scanned for use in order of priority (1 to 5). If manager line number 1 becomes busy, the second manager line will be selected. If that line is busy, the system will keep searching all five manager lines until one becomes available. Every minute the system will check to see if manager line 1 is busy, and if it is not, the system will then return to that line. If the manager connected to line 1 picks up his/her phone, tries to enter the programming area, and gets no response, he/she should hang up, wait 1 minute, and try again. Also, if a visitor is in the process of contacting a resident, all manager lines will be unable to enter the programming mode until that operation is complete.
- You do not have to program all 5 manager lines. For example, you may decide you want only 2 lines designated as manager lines. To clear (set it to "off") a manager line, enter the programming mode and press 13 + manager ID (1-5) + 00000.

## **6 - VERIFYING CORRECT SYSTEM INSTALLATION**

These programming steps are used by the installer to check parameters concerning the NPBI installation. These steps should not be used except when directed by your installing dealer.

### **STEP 23 - RING RESIDENT'S LINE**

- Purpose** To determine if an individual line is operating properly. The installer can dial the five digit line address associated with a particular resident line and communicate with the resident line from the test location.
- Format** 23 + 3 digit LIB address + 2 digit line number + #, then hang up and test phone.
- Example** 23 + 12303 + # and hang up (Rings line connected to LIB number 123 line 3).
- Important Notes** This step can only be performed at LIB sites using a touch tone telephone plugged into the "test" connector on any LIB (see Appendix 2 of the "Installation Instructions for the NPBI" for the location of this connector). To enter the programming area from this location, enter "★★★5" on the test telephone. Then, dial the desired LIB and line number and hang up the test telephone. This will ring the test telephone and the selected resident's telephone with the ring type programmed into the NPBI. The telephones will both stop ringing when either one is answered.

### **STEP 24 - SELECT RESIDENT'S LINE**

- Purpose** To connect the test telephone to a selected tenant's telephone line.
- Format** 24 + 3 digit LIB address + 2 digit line number + #, then hang up and test phone
- Example** 24 + 12303 + #, and hang up--wait until data stops flashing, then go off hook (connects the test set to LIB 123 line 3)
- Important Notes** This step can only be performed at the LIB sites using a touch tone telephone plugged into the "test" connector on any LIB (see Appendix 2 of the "Installation Instructions for the NPBI" for the location of this connector). To enter the programming area from the test location, enter "★★★5" on the test telephone. Then, enter the command as described in the examples above. If the line is not in use, a dial tone will be heard. If the line is in use, you will be placed on the line with the resident.

The remaining steps are only for Ovation systems with LIBs that have 3 decade switches. If your system is using LIBs with a single decade switch, you may skip these steps. If you are unsure of the type of LIBs that are in your system, ask your installing dealer.