

1 - Entering the Programming Mode.

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The emergency telephone can be programmed from any Touch Tone telephone using a Analog PABX or C.O. line

1.1 - Without the Security password.

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- a. The dip switch N.5 has to be in the OFF position (no need for password to access programming Mode).
- b. The dip switch N.7 has to be in the ON position (incoming calls are accepted). During normal functioning this dip should be at the OFF position.
- c. From a tone type telephone, call the line where the Dialink is installed.
- d. When the Dialink answer the call, it enters automatically the programming mode. This will be indicated by 2 short beeps.

Important: Once the programming of the Dialink has finish, remember to put the dip switch N.5 to the ON position (so a valid password is needed to enter the programming mode). Also put the dip switch N.7 in the OFF position, so incoming calls are not accepted.

1.2 - Using the security Code.

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- a. Put the dip switch N.5 in the ON position (password needed for programming access).
- b. Put the dip switch N.7 in the ON position (incoming calls are accepted). During normal functioning the dip N.7 must be at the OFF position.
- c. Once the Dialink answers the call, enter the 6 digit password, if the password entered is incorrect the Dialink will indicated this with 4 short beeps, otherwise it will enter the programming Mode and give 2 short beeps.

2 - Short Programming Table.

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First Emergency telephone number:	0-20 digits then #10
Second Emergency telephone number:	0-20 digits then #11
Third Emergency telephone number:	0-20 digits then #12
Forth Emergency telephone number:	0-20 digits then #13
Fifth Emergency telephone number:	0-20 digits then #14

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First information telephone number:	0-20 digits then #20
Second information telephone number:	0-20 digits then #21
Third information telephone number:	0-20 digits then #22

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ID number (Default cleared/000000).	0-20 digits then #30
Security Code (Default set 123456)	6 digits then #31

Voice Announcer options (factory set 000100).

6 digits then #32

Timing/Dialing options (factory set 142314).           6 digits then #33  
Speaker options (factory set 111111).               6 digits then #34  
Announcer options (factory set 111111).           6 digits then #35  
Diagnostic Requierment Code (factory set 111111)   6 digits then #40  
Diagnostic options (factory set 000000).           6 digits then #41  
;-----  
Central Station Receiver Number.                   0-20 digitos #50  
Central Station Voice Number.                    0-20 digitos #51  
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Note: 1 short beep indicates valid programming configuration. 4 Short beeps indicated a non valid programming configuration and/or data.

3 - ID number (configuration #30):  
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The ID number (up to 20 digits) is used by the emergency personnel to be able to identify the location of the Dialink calling. It is sent when the receiving party presses the "\*" touch tone button. The emergency office can see this number thru a touch tone monitoring device (Dialink- monitor). To set the desired ID number, enter it in programming mode followed by the #30.

Example: Desired ID Code 234567, enter 2 3 4 5 6 7 # 3 0, you will then hear a 1 beep confirmation beep from the Dialink.  
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4 - Security Code (configuration #31):  
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This password is used to allow the emergency personnel or installer to program the Dialink system. This password is used when the dip switch N.5 is at the ON position, otherwise no password is needed and the system will enter automatically the programming mode. The factory Default password is 123456. The security code must be a 6 digit code, and cannot include # or \*.

Exmample: if the new password is 456789, enter 4 5 6 7 8 9 # 3 1  
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5 - Voice announcer Options (configuration #32):  
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The Dialink has a Voice announcer included as a standard (non-volatile digital voice announcer up to 15 seconds). Which is used to identify the location of the calling Dialink. The messages is recored directly from the remote touch tone telephone (DTMF). The following options are available:

Dial: a + b + c + d + e + f + # + 3 + 2

The first 2 digits have no effect and must be 0 + 0 (a + b).

5.1 - Repeat the digital voice announcer option (C digit).  
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The value of the digit C, indicates how many times is the message repeated before entering the communication mode. If the value 0 is set, the message will be repeated every 8 seconds until a remote \* touch tone is received (default factory setting).

Once the digital voice announcer message is done, the Dialink will automatically send the ID number (up to 20 digits) if set, and after this it will illuminate the connected call LED.

5.2 - Message Delay Option (digits d+e).  
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The Dialink is factory set to automatically give the message once the call is considered answered (d+e = 0+0). The Dialink can be programmed to give the digital voice announcer message, after a set amount of time. Between 01 and 99 seconds after dialing. If this delay is used instead of the automatic feature, it is important to take in account the time needed for the Dialink to detect Busy or ring-no-answer when using the redial option.

5.3 - Message Volume Option (digit f).  
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The level of the digital voice announcer message can be from the amplifier (set by the speaker Preset, f = 1..9), or the from the recorded level volume (f = 0, factory default).

5.4 - Recording the message (dip switch N.6 must be ON).  
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- 1) To record the message in the Dialink, you must call to the Dialink from a touch tone telephone (DTMF) and enter programming Mode (if dip switch N.5 is at the OFF position no password is needed to access programming mode, otherwise a 6 digit password is needed). See section 1.
- 2) Once in programming Mode (it will be confirmed by the Dialink with 2 short beeps), to record the message touch \* 7, once you here the Dialink confirm this operation with 1 beep, you can start speaking the message (up to 15 seconds, otherwise error occurs).
- 3) To stop the recording, press any touch tone. Immediately it will stop repeat and the new recorded message so you can check if it is correct.
- 4) To hear again the new message press \* 9.
- 5) If no digital voice announcer messages is wanted, press \* 8.

Example: "The car number 5, located at the Sawgrass Shopping mall is in a

emergency. Press the \* key on your telephone to start or finish the digital voice message."

6 - Automating the Connected Call LED.  
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There are 2 ways of turning on the connected call LED. It will turn on when it receives a \* key from the remote touch tone telephone, or after the digital voice announcer messages is given (1..9 times). If the LED is wanted to be turn ON automatically after the communication is connected and no voice messages is needed, program the Dialink as follow:

- 1) Program 0 0 1 0 0 0 # 3 2
  - 2) Record a 1 second silent message. See section 5.4
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7 - Timing/Dialing options (configuration #33):  
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dial: a + b + c + d + e + f + # + 3 + 3

7.1 - Dial next number, on Ring No Answer (a Digit).  
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If a Ring no answer call is detected, the Dialink will try dialing with the next available number, and thru all numbers until a call is connected. The default factory setting of this option is disabled.

Values 0 and 1, indicate option disabled.

Values between 2 .. 9, indicate how many no answer rings before using the next available number.

7.2 - Talk/Listen Delay (b digit).  
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This value indicates the delay between talk and listen mode switching (Vox). Programmable in increments of 0.1 seconds (100mS). Touch tones 1 thru 9 are valid (0.1 .. 0.9 seconds). The default factory value is 4 (0.4 seconds).

7.3 - Dial next Number on Busy (c Digit).  
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If this option is enabled and a Busy call is detected, the Dialink will dial the next available number, and cycle thru all the available numbers until a emergency call is connected. The default factory value is disable. Please note that if the Busy signal is interrupted with a promotional message, contact your central office to have it removed, otherwise the Dialink will not be able to detect a Busy call.

digit	c Option
2.....	Enable
1.....	Disable

7.4 - Call Time Out Timer (d Digit).

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This option indicates the maximum of time that a call can be connected. Programmable between 1 and 9 minutes (touch tone key 1..9). Programming a value of 0 indicates Call Time Out timer has been turn OFF. In this case the Dialink must rely on a CPC signal to hang-up. The factory default value is 3 minutes.

7.5 - Pulse Dialing Rate (e digit).

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The Dialink can pulse dial with 2 different speeds. Factory default is 10 pps.

Digit	e Option
1	10 pps
2	20 pps

7.6 - Silence Time Out (f Option).

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This option indicates how long a Call can be connected with no voice activity. It can be programmed between 10 and 90 seconds (1..9 touch tone keys). If the value 00 is programmed the timer is disabled. The factory default value is 40 seconds.

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8 - Speaker options (configuration #34).

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dial: a + b + c + d + e + f + # + 3 + 4

8.1 - Speaker Active during programming (a Option).

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The speaker can be activated during programing mode. The factory default value is activated. No yet implemented (to disable).

Digit	a Option
1	active
2	disable

8.2 - Speaker active during Dialing (b Option).

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The Dialink can be set so, that during dialing the speaker is active. This way you can hear the dialing tone, dialing, and call in progress. The factory default value is active. Not yet implemented (to disable).

Digit b Option

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1 ..... active  
2 ..... disable

8.3 Speaker active during message Playback (c Option).

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The speaker can be active or not, during the playback of the digital voice message. From factory it comes activated.

Digit           c Option  
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1 ..... active  
2 ..... disable

8.4 Speaker active during recording of the message (d Option).

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The speaker can be activated during the recording of the digital voice message. The factory default value is off. No yet implemented (to enable).

Digit           d Option  
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1 ..... active  
2 ..... disable

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9 - Microphone/ Speaker ajustment and dips switches.

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To ajust the level of the speaker use the SPEAKER Preset. If the volume is to high, the audio may have distortion. And/or cause malfunction.

The Dialink has a Preset to ajust the sensibility of the microphone. In noisy locations it may be necessary de reduce the sensibility (MIC preset anticlockwise).

Important: Also notice that setting the gain too high, may cause distortion in the audio, inhibit next redialing number, and/or prevent the remote party from breaking over. Or Malfunction.

Important: Please note that the metallic case of the microphone must not be connected or touching Ground; or any other matelic part, as this might introduce noise (audio) to the system and/or malfunctioning.

8.1 - Dip switches

- 1 ... Diagnostic Mode, (on=Yes, off=NO, only available for Multisel).  
2 ... Diagnostic Mode Language (on=Spanish, off=English), only Multisel.  
3 ... No effect.  
4 ... No effect.  
5 ... Programming with/without password (ON/OFF).  
6 ... Recording message enable (on=Yes, off=NO)  
7 ... Incoming Calls Accepted (ON=Yes, OFF=No). During normal functioning this dip switch should be off.  
8 ... Push Button, On only or On/Off (OFF/ON).

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10 - Central Station programming.

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The Dialink emergency telephone is set by default to communicate using the DTMF 4+2 Express, DTMF 4+1 Express, Ademco Contact ID, or the Ademco High Speed formats. All programming options use the configuration #30, to store the clients account code and alarm specifications.

10.1 - Central Station Options.  
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- a. Enter programming mode as described in section 1.
- b. Enable/Disable central Station Mode  
The Dialink can be configured to Central Station Mode, this is done by programming a telephone number at the configuration #50. To cancel the Central Station mode program #50 only with no telephone number.
- c. Ring delay  
During Central Station mode it is better to have the ring delay programmed to a minimum of 4 rings. Most receivers send a long tone after answering the line that could be detected as a ring back, therefore if the Dialink is set to a ring delay of 3 or less, the telephone will on-hook (disconnect).
- d. Emergency Dial numbers  
The Dialink can be set to dial only the Central Station, or first dial up to one of the 5 Emergency dial numbers, and if no answer, then call the Central Station receiver. During the calling of one of the 5 emergency dial numbers (configuration #10..#14), the Dialink will stay in 2-way communication Mode. When calling the Central Station number (configuration #50), the Dialink will be in a Listen only Mode, so it can understand the hand shake signals of the receiver.

When the Central Station receiver does not have a Talk over Mode, the second Central Station Number should be used (configuration #51). The operation is the following, when the configuration #50 has a telephone number, and the configuration #51 is cleared: the Dialink when dial first the central station monitor receiver. After the receiver sends a Kiss-Off, the Dialink lights the Call connected LED and goes into a 2-way talk mode.

If dial numbers are programmed in both configurations (#50 and #51) the operation will be the following one: the Dialink dials first the receiver, and after the Kiss-Off signal, the Dialink will hang-up and dial the telephone number at the configuration #51, for 2-way voice communication.

Important: If only a Central Station mode is to be used, the telephone of the Central Station must be programmed at the configuration #50, and the configurations #10 .. #14 must be cleared. The LED of Call connected will turn on automatically, if a digital voice announcer messages is recorded.

11 - Central Station Formats.  
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The following text shows the different formats that are supported. This data must be set at the configuration #30. Every example begins with a 4 digit account number. This number is assigned by your Central Station for billing and identification purposes. Remember that to set these configurations you must be in programming mode (see section 1).

Note: When a X is shown, use any appropriate number. If a number is shown that specific number must be used.

a. Express Format 4+1

This DTMF format consists of a 4 digit account number, 2 digits for message type, and a single digit event code.

Example: XXXX 17 X #30

XXXX -> Account number  
17 -> Message Type  
X -> Event Code  
#30 -> configuration

b. Express Fornat 4+2

This DTMF format consists of a 4 digit account number, 2 digits for message type, and a 2 digit event code.

Example: XXXX 27 XX #30

XXXX -> Account number  
17 -> Message Type  
XX -> Event Code  
#30 -> configuration

c. Ademco High Speed Format.

This DTMF format consists of a 4 digit account number, 8 zone codes, and 1 alarm type digit. With this format you can identify up to 8 different telephones by using a zone per phone. A 5 in a zone position means no alarm. Example: shows an alarm from the 3rd telephone.

Example: XXXX 55 1 55555 7 #30

XXXX -> Account number  
55 -> Idel Zone  
1 -> New Event  
55555  
7 -> Normal Alarm  
#30 -> configuration

d. Ademco Contact ID format.

This DTMF format consists of a 4 digit account number, 2 digits for message type, and a 9 digit data field.

Ejemplo: XXXX 18 1 14000 XXX #30

XXXX -> Account number  
18 -> Message Type  
1 -> New Event  
14000-> General Alarm

XXX -> Set to any number to identify telephone  
#30 -> configuration

12 - Normal Operation.

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When the emergency push button is pressed, the Dialink will activate the line and place a call to a pre-programmed telephone number. During the dialing (pulse or tone) the connected call LED will flash. If during the dialing process the number is Busy or does not answer the call, the dialink can be set to dialing to a alternative number. The dialink will cycle between the programmed emergency numbers (up to 5) until it connects a call. Once this happens the digital voice announcer messages is given (so the remote party knows the location of the emergency), the ID number is sent (if enabled), and finally the connected call LED is turn on. Now a communication is enabled between the remote party and the location of the Dialink. After this if the remote party presses again the touch tone key \*, the digital voice announcement will be given again, then the ID. Once the key \* has been pressed, pressing the # key, will force the Dialink to hang-up.

13 - Central Station Operation.

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Once the Dialink has been activated with the emergency press button, it will start to dial. If any voice configuration telephone has been programmed at #10 .. #14, these numbers will be dialed first. After a pre-programmed number of rings and no answer, or detecting a Busy signal, the Dialink will hang-up and dial the Central Station telephone number set at configuration #50. Once the Central Station answers, it will send a handshake tone to the Dialink. Upon detecting the handshake tone, the Dialink will start downloading the information set at configuration #30.

After sending this information (#30), is waits for a Kiss-Off tone from the Central Station receiver. After this, the emergency Dialink telephone turns on the Led of Call Connected and goes into the 2-way talk mode or hangs-up and dials the telephone number set at the configuration #51 (if set).

Important: If your Central Station receiver does not support a talk-over mode, a voice telephone number should be set at the configuration #51.

If the Central Station answers the call and does not send a Kiss-Off, the next number will be dialed (if set). In either single number or multi-number programming, the phone will keep dialing until a call is completed.

14 - Telephone numbers.

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Each telephone number can have up to 20 digits. The special function digits as pause, dialing mode (tone/pulse), \* key, or # key, are considered as 1 digit (even if to enter them, 2 touch tone keys are needed).

13.1 - Emergency numbers.  
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The first number that is dialed during a emergency call this the one located at the configuration #10. The next numbers will be dialed if programmed, when a Busy or no answer call is detected. It will cycle between the numbers programmed until a call is answered. To program the number enter the digit plus the configuration desired (#10 .. #14).

To clear a dial number, enter 0 plus the option number (#10 .. #14).

To Program	Press
*	**
#	*#
4 seconds pause	*4
tone/pulse	*5
0, 1, 2, ..9	0, 1, 2 ..9

13.2 - Info Numbers.  
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The information numbers set at configurations #20, this the number or extension dial when the information press button is activated (optional). If no answer or busy is detected and the next information number has been set, it will dial it. Cycling thru the available information numbers until a call is answered. To set a information number, enter the desired number plus #20 .. #22. To clear a number simply program #20 .. #22 with no numbers before.

15 - Specifications:  
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- Requierments: The Dialink works directly form the telephone line, and needs no external power supply.
- Programming: From a touch tone telephone.
- Dialing Mode: Tones (DTMF) or Pulses (10 pps or 20pps).
- Digits Capacity: Up to 20 digits per dial number. Can included pause (4 seconds for access to central stations PABX, etc), \*, #.
- Conection: Paralell (tip y ring), with a RJ11 connector.
- Circuit Protection: Diecor/Varistor lightning suppressor and full wave polarity guard.
- Auto Answer: Automatically activates on incoming ring signal (dip N.7=on).
- Visual LED: Called party presses \*, or comunication connected.
- Environment: -20 C a 60 C (-12 F to 135 F) with 5% to 95% non-condensing humidity.

Dimensions PCB: 95mm x 155mm (Epoxy).

Aprobacion FCC: 10MUSA-18075-MT-E

IC (Canada): 1643 4093 A

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16 - Code Compliance.

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Company SRL has taken great care in ensuring that our telephone system Dialink meets all code requirements. There are, however, additional requirements that have to be met in order for the installation and operation to pass code. We will attempt to list requirements pertaining to the installation of our telephone system. The ultimate responsibility, however, is yours. Consult local codes to be sure your installation complies.

- a) Telephone equipment must be mounted at the proper height for people who use wheelchairs.
  - b) Make sure the called party knows how to make the visual indicator turn on. The signal is for hearing impaired and means that help is on the way.
  - c) Make sure the called party can determine the origin of the call without interaction from the occupants. This is accomplished by a caller ID (up to 20 digits) and/or by the standard digital voice announcer message. This function is used when the occupant of the elevator is speech and/or hearing impaired.
  - d) When installing the Dialink inside an elevator phone cabinet you should install a sign with raised and Braille lettering on the outside. A door handle allowing the physically impaired to open the door should also be installed.
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17 - Wiring.

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We strongly recommend that the wires used to supply the telephone line to the Dialink emergency speakerphone be 20 AWG shielded, twisted pair. The shield must be continuous from the speakerphone through the traveling cable to the incoming telephone line termination. Make sure the shield is connected to a true EARTH GROUND AT ONE END ONLY!! This will minimize the interference from AC inductance and RF (radio frequency).

18 - Telephone lines.

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For best operation, each Dialink emergency speakerphone must be installed on a analog touch tone (or pulse) telephone line. Compatible lines types are standard analog two-wire central office lines (POTS) from the local telephone company or most internal PBX systems.

The Dialink emergency telephone should be installed on a dedicated telephone line. Sharing a telephone line with other devices (e.g. fax machines, alarm systems, another telephone, etc.) could affect code compliance and/or cause the Dialink to malfunction.

The telephone line will be assigned a telephone number which allows the called party to call back to the location of the emergency. Take care to note this number and supply it to the called party.

19 - Telephone line specifications.  
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Line Type: Standard two-wire voice analog.

Line Voltage: 24 VDC minimum on-hook.

Loop Current: 30mA minimum.

20 - State Confirmation (beeps).  
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19.1 - 1 Beep.  
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Is indicated when entering recording of the digital voice message, using the touch tone keys \* 7 during programming mode.

19.2 - 2 Beeps.  
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- a. When receiving the keys \* 8, to erase the digital voice message during programming mode.
- b. When the dip switch N.5. is OFF (no password needed), and the Dialink answer the incoming call, indicating that it is in programming Mode.
- c. When the Dialink is first turn on, during Factory testing and the serial E2prom is not default programmed. The beeps indicate that the system has made an auto default programming. Then on-hook.
- d. Indicates that a valid configuration number and value have been accepted (6 or 20 digits).

19.3 - 4 Beeps.  
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- a. During the recording of the digital voice message, if the recording is longer than 15 seconds and no touch tone has been pressed, indicating an error.
- b. When the dip switch N.5 is OFF, and the serial E2prom is not installed or is malfunctioning.
- c. When recording a digital voice messages and it is less than 0.8 seconds of duration. This messages will not be accepted.
- d. During the programming of a configuration with up to 20 digits, if the 20 digits is exceeded it will be aborted and indicated with 4 beeps.
- e. During programming if a non-valid configuration is addressed (#xx), the system will indicate the fault.
- f. If trying to program configuration #32 (voice announcer options), and the digital voice announcer message is disable by configuration #35.
- g. During the programming of the configurations #33 or #31, if less or more than 6 digits are pressed.
- h. If during the programming of the configurations #33 or #31, non numeric values are used (\* or #), the system will indicate the fault.
- i. If during the programing to erase the digital voice messages is used (\* 8) and the configuration #35 is set to disable the digital voice announcer.

- j. If during programming mode another option which is not \*7, \*8, or \*9, is used it will indicate the fault with 4 beeps.
- k. If during programming the options \*7, \*8, or \*9 are used, and the configuration #35 is set to disable the voice announcer.

#### 19.4 - Continuous Beeps.

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If the Dialink has it's dip switch N.5 at ON, and the serial E2prom is not installed/malfunction or dose not have a default programming.

The default factory programming will be done if the serial E2prom is installed and the dip switch N.5 is OFF. When the Dialink is turn on it will do the default programming, and when done it will indicate this with 2 beeps and then put the Dialink on-hook.

Note: The Dialink will dial to a emergency/info telephone only if the digital voice announcer message has been recorded (\*7) or erased (\*8). Or if the digital voice announer configuration N.35=00 (disabled)

