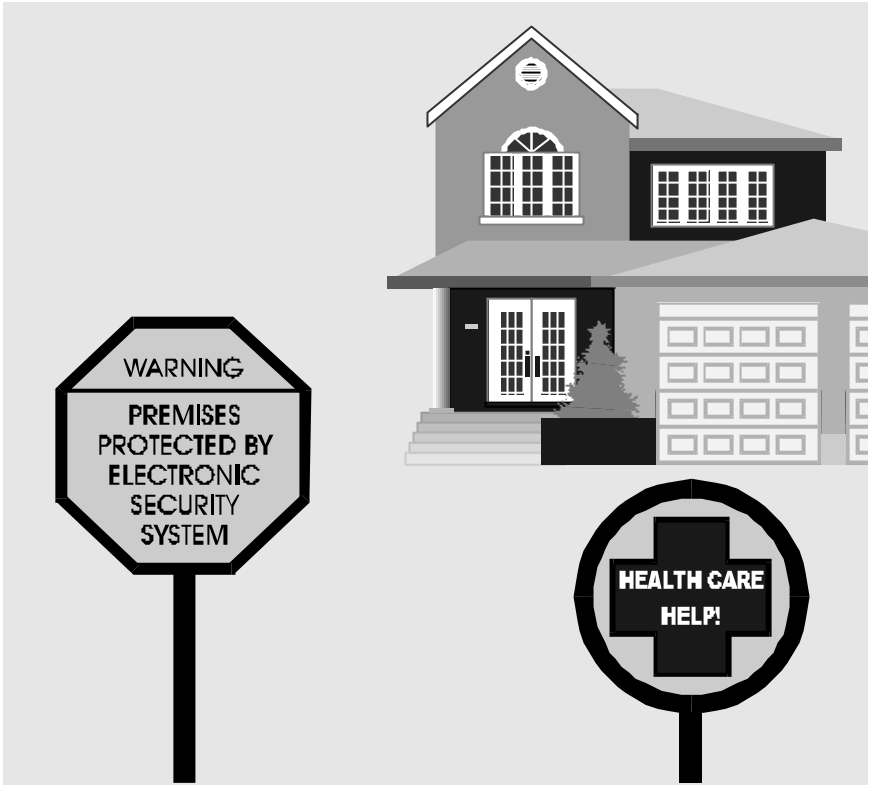
SKY LINK®/MD/MR www.skylinkhome.com

Monitoring Station™

MODEL : MS-200



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Monitoring Station™

MODEL: MS-200

OWNER'S MANUAL

SKYLINK TECHNOLOGIES INC.

Your Guide to the

Monitoring Station™

MODEL: MS-200

The MS-200 Personal Self Monitoring Station contains all the above items.

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PACKAGE CONTENTS

Everything required for installation are included with this package

1 **Dial-Alert** (AD-433S)
1 Audio Sensor (AS-433)
1 Telephone Line
1 Wire
1 Antenna (installed)
2 AC adapters
2 9 volt alkaline batteries

1 Pack of screws and anchors (for **Dial-Alert**)
One template
Double sided tape
Manual
Warranty Card
Quick Guide

OVERVIEW

Automatically calls for help in an emergency

Thank you for choosing Skylink's Monitoring Station, MS200 to protect your family and your assets. The MS-200 allows you to set up your own monitoring station without any monthly fees! The MS-200 is ideal to be used in conjunction with any existing security alarm systems that you can find on the market. Once your existing security system's alarm goes off, Skylink's Audio Sensor AS-433 will be able to detect the alarm from your system and therefore triggers the Automatic Dialer AD-433S to call for help. You can program up to 9 different phone numbers, which include your cellular phone, your office, your neighbor, your parents, or anyone else you can think of. Once the callers receive the emergency message from the dialer, they will be notified regarding the emergency situation.

Regardless of what kind of security system you are now using, as long as your security system sounds an alarm when it is triggered, the MS-200 allows you to eliminate all the monitoring fees that you've been paying for years and still maintaining the service. If you did not have monitoring service before, you now can enjoy such great service without paying any monitoring fees. You can also select who to call during an emergency.

This manual is divided into 4 sections in order to assist you in the installation and programming of your **Monitoring Station**.

1. Installation for the Emergency Dialer and Audio Sensor
2. Set up and Normal Operation of the Audio Sensor
3. Standard Programming of the Emergency Dialer
   - Program the time clock
   - Record a message
   - Playback of pre-recorded message
   - Storing telephone numbers in memory for
     - emergency voice message only
     - both emergency voice message and numeric pager information
     - numeric pager information only
   - Delete a telephone number from memory
   - Modify a telephone number, the redial count and repeat times of a phone number
4. Advanced Programming for the Emergency Dialer
   - Programming the calling time
   - Programming the pause period for pager access and telephone numbers
   - Select the phone system (regular or PABX phone systems)
   - Program transmitters / accessories to activate dialer
   - Erase programmed transmitters / accessories
   - To arm / disarm the dialer
   - Universal Dial Tone

INSTALLATION - DIAL ALERT

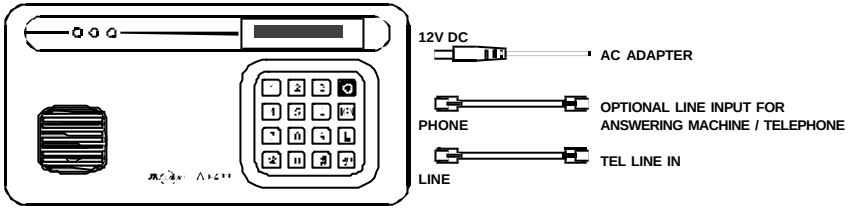
The **Monitoring Station** is installed using the screws provided. We have also included double sided tape, to use for temporary installation while you are positioning the dialer. Once the devices are positioned correctly, install them permanently with screws. We have also included wall anchors and a template to help position the screws correctly.

How to use the template:

1. Cut the template in correct position.
2. Screw part way into the surface where the holes are marked.
3. Unscrew the screws and remove the template.
4. Screw the component in place where you started the screws.

INSTALLING THE DIAL-ALERT (AD-433S)

Position the dialer beside a telephone or near any phone line and within access of an electrical outlet. However, it is recommended that you hide the dialer for security purposes. The dialer runs on regular electrical current. It also contains a 9 volt backup battery in case power is interrupted for any reason. A phone line must be connected to the dialer in order for the dialer to work. Connect the phone lines and AC adapter as shown.



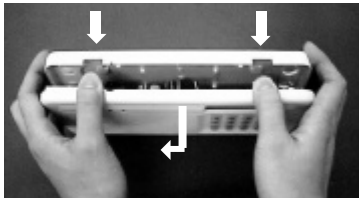
Note: The optional line input is intended for answering machine, telephone etc. The device connected to the dialer will be disconnected when the dialer is activated. Therefore it will not affect the operation of the dialer.

There are 3 ways to attach the **Dial-Alert** on the wall:

1. Using double sided tape for temporary use.
2. Hanging it from the two keyholes on two stationary screws.
3. Screwing the back onto the wall with four screws.

To mount the Dial-Alert:

1. Open the case.
   a) Press the two tabs on top of the dialer.
   b) Pull open the front.

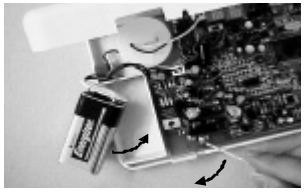


INSTALLATION - DIAL ALERT

2. Thread the telephone line through the top hole in the back of the unit and plug it into the "LINE" jack. If you want to have an answering machine on the same line as the dialer, thread the phone line through the bottom hole in the back of the unit and plug it into the "PHONE" jack of the dialer. **The phone line(s) must be inserted through the back of the unit before it is attached to the wall.**

3. Thread the AC adapter cord through the top hole in the back of the unit and plug it into the AC connector on the circuit board as shown. **The adapter cord must be inserted through the back of the unit before it is attached to the wall.**

4. Insert the 9 volt battery and rotate the antenna from the inside of the dialer to the outside.



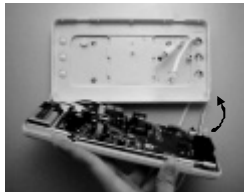
5. Firmly close the case. Insert and secure the two screws to the bottom case near the two tabs.

6. Using the template provided, insert the two screws into the wall.

7. Gently hang the **Dial-Alert** to these two screws.

8. Plug the other end of the telephone cord into a telephone jack. Plug the AC adapter into a power outlet. The red AC PWR light will turn on and the keypad backlight will flash.

CAUTION: After installation, please use two screws (included) to fix the front and back case together before hanging it on the wall. (When you open the case, please remove the AC adapter and the phone line from the wall outlet).

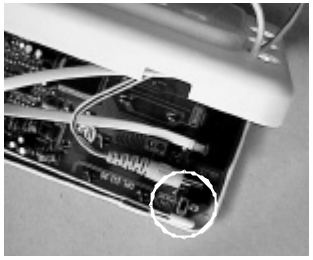


INSTALLATION - DIAL ALERT

Switch Setting inside the dialer AD-433S

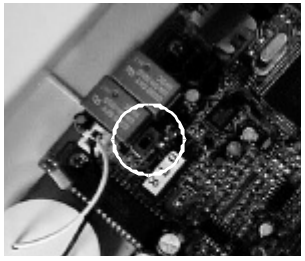
1. Tone/Pulse Switch

This dialer supports both Tone and Pulse dialing. In order to change the setting, you need to open the case by pressing the two tabs on top of the dialer and pull open the front. The Tone/Pulse switch is located at the upper left corner of the circuit board (just above the adapter jack). The switch is set to Tone at the factory. This setting can be changed by sliding the switch to the appropriate position.



2. Speaker On/Off Switch

The speaker must be on during programming and recording the voice message in order to use the playback feature. For security purposes, the speaker may be turned off after programming to allow for silent dialing when the dialer is activated.
The On/Off switch for the speaker is located on the lower right corner of the circuit board.
The default setting for the speaker is "On".



LIGHTS AND SOUNDS - DIAL ALERT

Below is an explanation of the lights and sounds of the **Dial-Alert**

LIGHTS

ACPWR light on	dialer is being powered by AC adapter.
ACPWR light off	dialer is not receiving any AC power.
LOBATT. light off	backup battery is connected and working.
LOBATT. light on	backup battery is weak, battery needs to be replaced.
DISARM light off	the dialer will dial the pre-programmed phone numbers when activated.
DISARM light on	the dialer will not dial any phone numbers when activated.
Keypad backlight flashing	1.) The dialer has no message in memory. 2.) Dial tone is not detected when the dialer is activated, check phone line connection.
Keypad backlight	If unit is powered by AC adapter or powered by back up battery, back light stays on for five seconds when any key on the keypad is pressed.

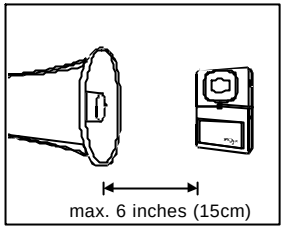
SOUNDS

Short beep	You have pressed a key in the right order.
Two short beep's	1.) When the dialer is turned on for the first time. 2.) When the pre-programmed transmitters/sensors are deleted from the memory.
Long beep	You have made a mistake.

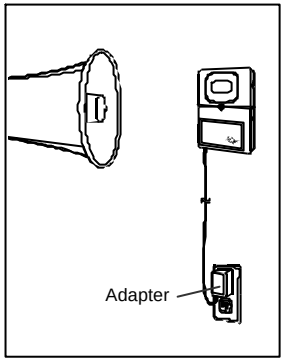
INSTALLATION - AUDIO SENSOR

INSTALLING THE AUDIO SENSOR (AS-433)

1. Place the Audio Sensor as close as possible to the siren or alarm unit of your existing security system. This distance between the sensor and the siren should be less than 6 inches.
   Note: Selecting the place to locate the AS-433 is very critical, since this will affect the operation and performance of the sensor. You should avoid placing the Audio Sensor near any unwanted sound sources (such as TV, stereo) to eliminate false trigger by background noise.



2. Plug in the DC adapter cord to the DC jack on the Audio Sensor, and plug in the other end to an electrical outlet. If there is no electrical outlet nearby, the Audio Sensor can be operated by 9V battery as well. Please refer to Battery Maintenance on page 27 for more detail information.



3. Apply the Velcro to the back of the sensor as well as the wall.

4. Locate the Audio Sensor AS-433 and make sure it is secure.

CONNECT THE DIAL-ALERT WITH YOUR EXISTING ALARM SYSTEM

Setting up connection between the Dial-Alert (AD-433S) and the Audio Sensor (AS-433)

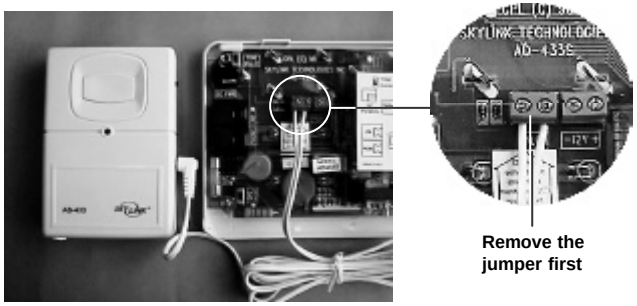
The Audio Sensor can be connected to the dialer in 2 different ways.

1. Hardwire - The connection can be made between the Audio sensor and the dialer through a hardwire.
2. Wireless - Once the Audio Sensor is triggered, it will send a radio signal to activate the dialer.

Hardwire Connection:

1. Plug in the extension wire to the "EXT JACK" of the Audio Sensor.
2. Since connecting the N/C may activate the dialer, we recommand users to disarm the dialer before connecting the N/C terminal. Disarm the Dial-Alert by pressing "L", "7", "2".
3. Open the back cover of the Dial-Alert and remove the jumper from the N/C terminal (see pircture).
4. Connect the other end of the extension wire to the N/C terminals of the Dial-Alert. Undo the screws and insert the ends of wire to the N/C terminal. Once this is done, tighten the screws again.
5. Arm the dialer by pressing "L", "7","1" and close the back cover of the Dial-Alert.
6. Once the Audio Sensor is triggered, a signal will be sent to the dialer through this extension wire and the dialer will call for help.

Note: Hardwire connection is now established between the dialer and the Audio Sensor, the Audio Sensor will be activated if the connection is broken or if the Audio Sensor is turned off. Therefore, the dialer will be activated when someone tries to turn off the sensor or try to break the connection by disconnecting or cutting the wire.



CONNECT THE DIAL-ALERT WITH YOUR EXISTING ALARM SYSTEM

The Audio Sensor must be "Learned" to the Dial-Alert in order for them to communicate with each other wirelessly.

Wireless connection:

1. Turn the Audio Sensor to "ON" mode and power up the Dial-Alert. Wait 15 seconds for the Audio Sensor to warm up.
2. Press "L", "5", on the Dial-Alert. Then press the "Panic" button on the Audio Sensor. The display on the Dial-Alert will return to clock mode once this is completed.
3. The Audio Sensor is now "learned" to the Dial-Alert. When the Audio Sensor is activated, it will send a radio signal to the Dial-Alert. The dialer will then start calling the pre-programmed phone numbers for help.

Note: The operation range between the dialer and the Audio Sensor is usually about 150ft in open area. Please make sure the connection can be established when the system is used under real situation.

SET UP - AUDIO SENSOR

Set up the Audio Sensor

1. Plug in the AC adapter and insert the wire to the "DC 9V" jack. If there is no electrical outlet nearby the audio sensor, you may use the 9V alkaline battery as the main power source. If both power supplies are connected, the 9V adapter will be the main power, 9V alkaline battery will become the backup power supply.
2. Turn on the unit to test mode (by sliding the ON/OFF/TEST switch to "TEST"). The red light indicator will flash once you turn on the unit.
3. Allow 15 seconds for the sensor to warm up.
4. Rotate the "Volume" to "Min".
5. If the light indicator on the AS-433 turns on as the siren is sounding, that means it can detect the sound from the siren and the installation of the AS-433 is now completed.
6. If the red light indicator does not turn on, which means the sensor cannot hear the siren. So you need to increase the volume setting by slightly rotating the "Volume" switch.
7. Activate the siren again and see if the audio sensor can hear the siren. If the red light indicator does not turn on, repeat step 6 until the red light indicator turns on.

Caution: Please make sure the Audio Sensor can only be triggered by the real alarm siren. Some of the alarm systems will emit other sounds under different situations such as entry delay deeps (this is to warn the user the alarm has been triggered, user has to enter the password within a short period of time otherwise the alarm will go off). Please make sure the Audio Sensor can only detect the intented alarm sound pattern. Since the intented alarm is usually a lot louder than other sound patterns. If the AS-433 can detect other sound patterns from the alarm systems, please adjust the "Volume" so that it can only detect the intented alarm.

8. You should test the sensor several times in order to ensure it can hear the siren.

Caution: You should keep the "Volume" setting as low as possible in order to eliminate false trigger by any background noise.

OPERATION - AUDIO SENSOR

Normal Operation

Once you have installed your audio sensor properly, you should not change the setting since it will affect the operation of the sensor, and therefore may cause false alarm or malfunction. In order to activate the audio sensor, it has to detect the siren or similar sound source for a fixed amount of time, either 4 seconds or 8 seconds. This timing can be set by adjusting the Delay Time setting. When the Delay time is set to "LO", the AS-433 has to detect the siren for approx. 4 seconds in order for it to be triggered. When the Delay time is set to "HI", this timing will be changed to 8 seconds. This will further reduce the chance of false alarm. Once the audio sensor is activated, it will send a signal to trigger the emergency dialer (AD-433S). The dialer will then start dialing out all the preset phone numbers and ask for help.

STANDARD PROGRAMMING - DIAL-ALERT

Once the Dial-Alert is installed, user can start setting up some of the functions such as what phone number to call, how many times will it call, how many times will it play the message etc. Please follow the instructions below to set up your Dial-Alert.

When you plug in the dialer for the first time, you will hear a double beep and all the lights will be on for 2 seconds, the keypad will continue to flash and the clock will be set to 12:00.

PROGRAM THE TIME CLOCK

1. Press the [L] key, display will show “L”.
2. Press the [4] key, display will show “ L 4 12:00 ”. The first digit of the time will be flashing. The flashing digit is the number you are currently changing.
3. Using the keypad, enter the desired number.
   The clock is in 24 hour mode. For example, if the display shows “ L 4 1330 ”, the time is set at 1:30 pm.

To change the time to 8:15 pm, the sequence is (remember that the clock is in 24 hour mode):

[L] , [4] , [2] , [0] , [1] , [5]

RECORDING A MESSAGE

Currently the keypad is flashing and will continue to flash until a message has been recorded. The dialer cannot dial any phone numbers if a message has not been recorded.

To record a voice message, press and hold the [R/P] key for 2 seconds, the display will show “rEcord” and a beep is generated which alerts you to begin recording. The microphone is located beside the speaker. Record all the information you would like to be played in case of an emergency. For example: "This is an emergency voice message, my name is John Smith, please send help, I live at.....My phone number is xxx-xxx-xxxx" (if you have two phone lines, give the phone number of the line that the dialer is not using.)

This dialer includes a special feature that allows the person who is receiving the emergency message to terminate it. By pressing "#" while the message is being played, the Dialer will stop calling that number, then advance to the next number, if any. We recommend that a short ending be recorded after the emergency message informing the recipient of this feature (i.e. this message will call you x times and repeat x times during each call, to acknowledge and discontinue further calls, press "#").

After you are finished recording the message, (maximum length of 40 seconds), press [R/P] key, display will show “PLAY” and play back the message. After playing the message, the display will return to clock mode. The keypad backlight will stop flashing indicating that a message has been recorded.

The sequence to record a message is:

Press and hold [R/P] for 2 seconds , [record message] , press [R/P].

PLAYBACK PRE-RECORDED MESSAGE

Press and release the [R/P] key, display will show “PLAY” and the dialer will beep. The message is then played back.

If you want the dialer work without noise, means no beep or let no body knows the dialer is dialing, just turn off the Speaker Switch inside the case.

STORING TELEPHONE NUMBERS

This feature enables the user to program as many as 9 different telephone numbers. The dialer can send out 2 different messages. One message is the pre-recorded voice message that you programmed earlier, the other message sends numeric information to a pager.
There are three different ways that you can send the voice message and the numeric information:

A. Sends the emergency voice message only
B. Sends both the emergency voice message and the numeric infomation (pager reception only)
C. Sends the numeric information only (for pager reception only)

Cautions:
Skylink recommends that the telephone or pager numbers of your relatives, neighbors, office/work, friends or doctor be programmed into your Dial-Alert. Do not program the phone number to police or fire dept directly into your Dial-Alert unless you have checked with your local authorities. Please also inform all the recipients that their phone numbers have been programmed into your dialer, so they know exactly what happen when they receive your emergency message.

A. Storing telephone numbers in memory (Sends the emergency voice message only)

1. Press the [MEM] key, the display will show a letter “M” on the upper left corner. If nothing is entered within 5 seconds, the display will return to the clock mode.
2. Within the first 5 seconds, select a memory location by pressing a keypad number 1 - 9 to store the telephone number.
3. Enter the telephone number using the keypad. The display will flash as the numbers are being entered. To insert a pause period between any digits of the pre-programmed telephone number, see PROGRAMMING A PAUSE PERIOD (page 20).
4. Press the [MEM] key within 5 seconds after the last digit of the telephone number is entered. The number is now stored.
5. After the telephone number has been stored, "rEdIAL 3" will appear on the display. This is the redial count which is the number of times the dialer will call that telephone number. The dialer is factory set to call each number 3 times. The number of attempts can be changed to dial 1 to 9 times. If you want to keep the dialer at 3 attempts, press the [MEM] key. To change the redial count, enter a number from 1 - 9 when display shows “rEdIAL 3” .

6. The display will now show “rEPEAt 3”. This is the repeat count which is the number of times the message will be repeated during that one call. The dialer is factory set to repeat the message 3 times. The number of repeats can be changed from 1 to 9 times. If you want to keep the repeat count to remain at 3 times, press the [MEM] key. To change the repeat count, enter a number from 1 - 9 when display shows “rEPEAt 3” .
7. The dialer is now in standby mode. (Display shows the time).

The sequence to store a telephone number is as follows:

[MEM] , enter memory location (1-9) , enter telephone # , [MEM] , enter redial # (1-9), enter repeat # (1-9).

B. Storing telephone numbers in memory (Sends both emergency voice message and numeric information)

1. Press the [MEM] key, the display will show a letter “M” on the upper left corner. If nothing is entered within 5 seconds, the display will return to the clock mode.
2. Within the first 5 seconds, select a memory location by pressing a keypad number 1 - 9 to store the telephone number.
3. Enter the telephone number using the keypad. The display will flash as the telephone is being entered. To insert a pause period between any digits of the pre-programmed telephone number or after the telephone number and before the numeric message (used for pagers), see PROGRAMMING A PAUSE PERIOD (page 20).
4. Press [MEM].
5. "rEdIAL 3" will appear on the display. This is the redial count which is the number of times the dialer will call that telephone number. The dialer is factory set to call the number 3 times. The number of attempts can be changed to dial 1 to 9 times. If you want to keep the redial count at 3 attempts, press the [MEM] key. To change the redial count, enter a number from 1 - 9 when display shows “rEdIAL 3”.
6. The display will now show “rEPEAt 3”. This is the repeat count which is the number of times the message will be repeated during that one call. The dialer is factory set to repeat the message 3 times. The number of repeats can be changed from 1 to 9 times. If you want to keep the repeat count to remain at 3 times, press the [MEM] key. To change the repeat count, enter a number from 1 - 9 when display shows “rEPEAt 3”.

C. Storing telephone numbers in memory (Sends the numeric information to pager only)

1. Press the [MEM] key, the display will show a letter “M” on the upper left corner. If nothing is entered within 5 seconds, the display will return to the clock mode.
2. Within the first 5 seconds, select a memory location by pressing a keypad number 1 - 9 to store the telephone number.

3. Enter the telephone number using the keypad. The display will flash as the telephone is being entered. To insert a pause period between any digits of the pre-programmed telephone number or after the telephone number and before the numeric message (used for pagers), a pause period must be added between the telephone number and the numerical message. Refer to the Pager Company to identify the pause needed (see PROGRAMMING A PAUSE PERIOD - page 20).
4. Enter the numeric information you want to send out, (the information that will be shown on the pager), then press [L]. This will suspend the recorded message.
5. Press [MEM].
6. After the telephone number has been stored, another message will appear on the display asking for a redial count. The redial count is the number of times the dialer will call that telephone number. The dialer is factory set to call the number 3 times. The number of attempts can be changed to dial 1 to 9 times. If you want to keep the redial count at 3 attempts, press the [MEM] key. To change the redial count, enter a number from 1 - 9 when display shows "rEdIAL 3".
7. Input the repeat times when the display shows "rEPEAt 3". The repeat time is the number of times the message will be played for that certain phone number. The current setting is 3. It can be changed from 1 to 9 using the keypad. Again, by pressing [MEM] will keep the existing setting.

DELETE A TELEPHONE NUMBER FROM MEMORY

1. Press [MEM] key.
2. Select the memory location (1 - 9) of the phone number you want to delete.
3. The phone number will be shown on the display, if that is the number you want to delete, press the [R/P] key while the telephone number is on the display. Once the phone number is deleted, the display will return to clock mode.

TO REVIEW OR MODIFY THE PRE-PROGRAMMED PHONE NUMBERS, THE REDIAL COUNT AND/OR THE REPEAT TIMES OF A PHONE NUMBER.

1. Press the [MEM] key, display will show an “M” in the upper right corner.
2. Select the memory location of the phone number, (1 - 9)
3. The phone number will be shown on the display.
4. If you want to change the telephone number, enter the new phone number while the old number is on the screen. This telephone number will be deleted when a new number is added. Then press the [MEM] key. If you want to keep the telephone number shown on the screen, press [MEM].
5. The display will now show the current setting of the redial count. If you want to keep the current redial count, enter the [MEM] key. If you want to change the setting, enter the desired number, (1 - 9), then press the [MEM] key.

STANDARD PROGRAMMING - DIAL ALERT

6. After pressing the [MEM] key, the display will show the current setting of the repeat times.
7. If you want to keep the current repeat time, enter the [MEM] key. If you want to change the setting, enter the desired number, (1 - 9), then press the [MEM] key.
8. The screen will revert back to clock mode.

ACTIVATE THE DIAL-ALERT WITH THE PANIC BUTTON ON THE KEYPAD

After you programmed all the emergency telephone numbers and the voice message, you can activate the dialer by pressing the panic button on the keypad. Once the panic button is pressed, the dialer will start dialing the pre-programmed emergency phone numbers. You can also activate the dialer using the Panic Transmitter. (PT-434, sold separately).

If the display shows "NO LINE" 1 minute after the panic button is pressed, please check the phone line connection and the dial tone. If the connection is established, and dial tone is normal, you may have to enable the "Universal Dial Tone" feature. Please refer to page 21 for more detailed information.

ADVANCED PROGRAMMING - DIAL ALERT

PROGRAM THE CALLING TIME

The calling time is the amount of time the phone will ring until the call is disconnected. If the phone is not picked up within this period of time, the dialer will either call again, (depends on the redial count), or advance to the next phone number. The calling time is currently set at 60 seconds.

How to program the calling time.

1. Press the [L] key, the display will show " L "
2. Press the [1] key, the diplay will show " L 1 1 ", the last digit, " 1 ", is the setting of the call time, (in this example, it is currently 30 seconds, as per chart below). To keep this setting, press the [L] key.
3. To change the calling time, press either 1, 2, 3, 4 or 5 when the diplay shows " L 1 1 " (refer to the chart below)

1	=	30 seconds
2	=	45 seconds
3	=	60 seconds
4	=	75 seconds
5	=	90 seconds

If the display shows " L 1 3 ", the phone will ring for 60 seconds before the call is disconnected.

PROGRAMMING A PAUSE PERIOD

When storing a phone number, you are able to insert a pause period between any digits of the phone number or after the phone number and before the numeric message (for pagers).

To set the pause period for pagers numeric message

1. Press the [L] key, the display will show " L "
2. Press the [2] key, the display will show " L 2 5 ", the last digit, " 5 ", is the setting of the pause period (in this example, it is currently set at 5 seconds), to keep this setting, press the [L] key.
3. To change the pause period, between 1 to 9 seconds, press (1 - 9) on the keypad while the display shows " L 2 5 ". If the number 9 is entered, the pause period between the number dialed and the numeric message is 9 seconds.

Program pause period between phone number and numeric message

Press the [R/P] key to insert a pause period between the telephone number and the numeric information you want to send. The pause period is the time you have to wait after the connection has been made to the paging company and before you can enter the numeric information (i.e. phone number). The display will show a "P" if a pause period is entered. This pause period is factory set at 5 seconds but can be changed from 1 - 9 seconds. You may also insert multiple pause periods to suit your application.

Call the paging company to determine how long the pause period should be.

To insert a pause period in a telephone number

The length of the pause period [L*] can be programmed as shown.

1. Press the [L] key, the display will show "L".
2. Press the [*] key, the display will show "L* 3", the last digit, "3", is the setting of the pause period, (in this example, it is currently set to 3 seconds, as per chart below). To keep this setting, press the [L] key.
3. To change the pause period, press either 1, 2.....or 9 when the display shows "L* 3".

1 = 1 second	2 = 2 seconds	3 = 3 seconds
4 = 4 seconds	5 = 5 seconds	6 = 6 seconds
7 = 7 seconds	8 = 8 seconds	9 = 9 seconds

When programming a telephone number to the dialer, (see STORING TELE-PHONE NUMBERS), a pause period may be added between any digits of a phone number. By using the " * " key on the keypad, a pause period will be entered. The pause period will be anywhere between 1-9 seconds, (see the beginning of this section to set the length of the pause period). Example, if you wanted a pause between the third and forth number, the sequence would go as follows, 568*2095. If the pause period was set at five seconds, there would be a five second delay between the 8 and the 2.

SET THE TYPE OF PHONE SYSTEM

This dialer supports both regular telephone and PABX phone systems. Selection can be made using the function key. The dialer is currently set for regular phones.

To select the phone system:

1. Press the [L] key, display will show an “L”.
2. Press the [3] key, display will show “L 3 1 ”, the last digit (1) means the dialer is set for regular phone.
3. To change the setting of the dialer to PABX systems, press [2]. The display will show “ L 3 2 ” and the system is now set to PABX system.

PROGRAM THE ID CODE OF A TRANSMITTER

Before any transmitter/sensor/security system console can activate the **Dial-Alert**, they must be learned (programmed) to communicate with each other. As mentioned in previous section, the Audio Sensor must be "learned" to the Dial-Alert in order to connect these 2 devices wirelessly. The Dial-Alert can learn up to 16 different devices, once these "learned" transmitters/sensors are activated, such as: the button on the panic transmitter is pressed, a door with the door/window sensor on it is opened, someone walks through an area monitored by the motion sensor or the siren sounds on the security system, the dialer will begin to dial the preset telephone numbers and play the pre-recorded message.

ADVANCED PROGRAMMING - DIAL ALERT

To program Skylink’s transmitters/sensors to the Dial-Alert (AD-433S):

1. Press the [L] key, display will show “L”.
2. Press the [5] key, display will show “ L 5 Id codE ”.
3. Activate the desired transmitter/sensor within 5 seconds after pressing the [5] key. Refer to the user's instruction of the sensor to determine how to activate it. Once the transmitter/sensor is learned to the dialer, the display will return to clock mode.
4. To ensure that the sensor has been learned, activate the learned sensor when the dialer is in the clock mode. If the dialer starts dialing the preset phone numbers, the sensor has been learned. To terminate the dialing, press and hold the Panic Button [O] on the keypad for 2 seconds.

DELETE PROGRAMMED TRANSMITTERS/SENSORS/SECURITY SYSTEMS

Once a transmitter/sensor/security system is learned, it is stored in memory. In order to delete any one of the sensors, first the entire memory must be erased, then re-learn the transmitters/sensors/security systems you wish to use. You cannot erase only one specific sensor, the entire memory must be cleared.

To erase transmitters/sensors/security systems from the dialer:

1. Press the [L] key, the display will show “ L ”.
2. Press the [6] key, the display will show “ L 6 ErASE “.
3. Press the [#] key. If your hear a double beep, all transmitters/sensors/security systems have been deleted.

TO ARM/DISARM THE DIALER

The dialer can be armed to send messages when the transmitters/sensors that are learned have been activated. You can also disarm the dialer so that it will not be activated even if any of the learned transmitters/sensors are activated. You may choose to disarm the dialer when you are home and the door/window contact on your front door is active. The dialer is currently set to arm mode.

To arm/disarm the dialer:

1. Press the [L] key, the display will show “ L ”.
2. Press the [7] key, the display will show “ L 7 1 ”. The last digit (1) indicates the dialer is armed.
3. To disarm the dialer, press the [2] key within 5 seconds after pressing the [7] key . When the dialer is disabled, the display will read “ L 7 2 ”.

When the dialer is disarmed, the disarm LED light will be on.

ADVANCED PROGRAMMING - DIAL ALERT

UNIVERSAL DIAL TONE

This feature allows your **Dial-Alert** to be compatible with all phone systems worldwide. When the Universal Dial Tone is off, your Dial-Alert needs to detect a proper dial tone before it will dial the pre-programmed telephone numbers. However, not all phone systems and dial tones are the same. For instance, the dial tone may be different for any phone system that accommodates the voice message systems or call answer feature. When the Universal Dial Tone is on, your **Dial-Alert** will dial no matter what type of dial tone is present. This Universal Dial Tone is factory set to off. However, you may wish to set it to on if your phone line accommodates the voice message systems or call answer feature.

Turn on the universal dial tone:

1. Press the [L] key, display will show “L”.
2. Press the [9] key, display will show “ L 9 1 ”. The last digit (1) indicates that the universal dial tone detection is turned off.
3. Press the [2] key within 5 seconds after pressing the [9] key to turn on the universal dial tone.

When the universal dial tone is turned off, and no dial tone is detected within 1 minute (after the dialer is activated), the display will show “no LInE” and the back-lit keypad will flash. To return to standby mode (Display shows the time), press and hold the panic button [O] for 2 seconds.

DIAL SEQUENCE SETTING

During an emergency, the dialer can dial the preprogrammed phone numbers in two different sequences.

1. dials each preprogrammed telephone number once and when the last number is dialed, the dialer goes back to the first phone number. Dials it once then dials the second telephone number once and continues this sequence until the last number is dialed and if the redial is set to "3", it will repeat this sequence one more time.
2. will completely dial the first preprogrammed phone number before dialing the second programmed telephone number. If the redial count is set to "3", the dialer will dial the first telephone number three times, then dial the second number three times and continue with this sequence until all the telephone numbers are dialed.

ADVANCED PROGRAMMING DIAL ALERT

To program the Dial Sequence Setting

1. Press the [L] key, display will show "L".
2. Press the [0] key, display will show "L0 2" The last digit "2" is the dial setting sequence. It is currently set to dial first number completely, then repeat next sequence.
3. To change the dial setting sequence, enter either "1" or "2" when the display shows "L0 2" (refer to the chart below).

   1 = dialer dials each phone number once, then repeats sequence.
   2 = dialer finishes dialing the first phone number, then begins the second number.

DIAL-ALERT QUICK GUIDE

FUNCTIONS	FEATURE	DEFAULT DISPLAY	SETTINGS
[L] + ['1' – [0]	TO SET CALLING TIME	L1 3	1 = 30, 2 = 45, 3 = 60, 4 = 75, 5 = 90 seconds.
[L] + ['2' – [0]	TO SET PAUSE TIME FOR PACERS NUMERIC MESSAGE	L2 5	1 = 1, 2=2, 3=3, 4=4, 5=5, 6=6, 7 = 7, 8 = 8, 9 = 9 seconds.
[L] + ['3' – [0]	TO SET PHONE SYSTEM	L3 1	1 = Regular phone 2 = PABX
[L] + ['4'	TO SET CLOCK (HOUR:MINUTE)	L4 12:00	The clock is in 24 hour mode
[L] + ['5'	TO LEARN ID CODE OF TRANSMITTERS/SENSORS	L5 Id code	Activate the transmitter/sensor within 5 sec.
[L] + ['6' – ['#'	TO ERASE TRANSMITTERS/SENSORS FROM THE SYSTEM	L6 ERASE	
[L] + ['7' [0]	TO ARM/DISARM THE SYSTEM	L7 1	1 – ARM 2 – DISARM
[L] + ['8' – [0]	TO SET UNIVERSAL DIAL TONE	L8 1	1 = OFF 2 = ON
[L] + ['0' – [0]	TO SET REDIAL SEQUENCE	L0 2	1 – Dials each phone number once, then repeats sequence. 2 = Finishes dialing first phone number, then begins the second number.
[L] + ['*] + [0]	TO SET DIALING PAUSE TIME	L* 3	1 = 1, 2 = 2, 3 = 3, 4 = 4, 5 = 5, 6 = 6, 7 = 7, 8 = 8, 9 = 9, 0 = 10 seconds.
	TO RESET THE DIALER AND RETURN TO CLOCK MODE, PRESS AND HOLD THE REC PANIC KEY [0] ON THE KEYPAD FOR 2 SECONDS		

NOTES : [0] – NUMERIC CHOICE (see SETTINGS column)

BATTERY MAINTENANCE - DIAL ALERT

The MS-200 comes with two 9V batteries that at some point you may have to replace. One 9V battery for the Dial Alert AD-433S , and one 9V battery for the Audio Sensor AS-433 .

Recommendation: Test your **Dial-Alert** and Audio Sensor periodically to ensure that the batteries are working.

Dial-Alert Battery

The **Dial-Alert** comes equipped with a 9V backup battery in case the electrical power is interrupted for any reason.

When the dialer backup battery is low, the "LOBATT" light goes on.

To replace the dialer backup battery:

1. Undo the two screws on the back of the **Dial-Alert**.
2. Open the **Dial-Alert** case by pressing down on the two tabs on the top edge and pull the front forward.
3. Disconnect the old battery.
4. Connect the new battery.
5. Close the **Dial-Alert** case and re-insert the two screws.

The battery life, (9 volt alkaline battery), is approximately two years if used only for backup.

Note: If the AC adapter is disconnected while the battery is being replaced, the pre-recorded message will be erased, and the clock will return to 12:00. Re-record the emergency voice message and reset the clock. (Refer to page 15). The pre-programmed phone numbers will not be erased even when the power is disconnected.

BATTERY MAINTENANCE - AUDIO SENSOR

Audio Sensor Battery / DC adapter

The Audio Sensor can be powered by either 9V alkaline battery or external 9V power adapter. When the AC adapter is plugged in, the 9V alkaline battery works as a back up battery. In case of a power failure, the audio sensor can still operate normally. On the other hand, you can use the 9V alkaline battery as the primary power source as well if the 9V adapter is not connected.

When the voltage of the 9V battery drops to a certain level, the audio sensor will notify you by flashing the red light indicator every 8 seconds. This indicates the 9V battery needs to be replaced.

To replace the battery:

1. Turn off the audio sensor and disconnect the AC adapter from the sensor (if the adapter is connected).
   Caution: If the N/C hardwire connection is made, disconnecting the power or turning off the Audio Sensor will trigger the dialer. Therefore, before replacing the battery, or turning off the power, please disable the dialer (refer to page 22 for how to arm/disarm the dialer).

2. Pry off the battery cover and remove the old battery from the battery compartment.

3. Connect the new 9V battery to the connector wire and place the battery inside the battery compartment.

4. Slide the battery cover back on.

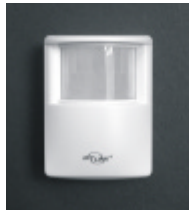
5. Turn the Audio Sensor to “ON” mode.

6. To arm the dialer back to operate normally. (refer to page 22 for how to arm/disarm the dialer).

ADDITIONAL ACCESSORIES

Additional sensors and transmitters as well as add on accessories are available to work with your **Dial-Alert**.

Motion Sensor (PS-434A)
- Monitors area in a 110 degree ARC and up to 40 feet away from the sensor
- 9V alkaline battery included



Door/Window Sensor (WT-433)
- Attaches to all doors, windows, entrances
- Add on as many magnetic switch (MS-001) as needed
- 12V alkaline battery included

Magnetic Switch/Magnet (MS-001)
- Used in conjunction with Door/Window Sensor (WT-433)
- Add on for additional doors, windows

Keychain Transmitter (4B-434)
- Activates Security Control Panel (SC-001) instantly by pressing panic button
- Arm/Disarm Security Control Panel (SC-001)
- Reliable design, crystal base transmission with microcontroller
- 12V alkaline battery included

Audio Alarm (AA-433)
- Additional indoor/outdoor siren
- Water resistant
- 120 dB siren with flashing LED
- Operates by AC adapter with 9V alkaline back up battery (included)

ADDITIONAL ACCESSORIES

Security Control Panel (SC-001)
- Four alarm modes (Day, Night, Away, Chime)
- Four zones, each zone controls up to 6 decives
- Reliable design with microcontroller
- 110dB siren

Silent Alarm (SW-433)
- Plug into any AC outlet, then plug light into Silent Alarm unit
- Light flashes when sensor(s)/transmitter(s) is (are) activated
- Silently alerts occupants including the hearing impaired

Vibration Sensor (VS-433)
- Activates Security Control Panel or Emergency Dialer when vibration is detected
- Attach vibration sensor to valuables, (stereo system, antiques)
- 9V alkaline battery included

Water Resistant Panic Button Transmitter (PT-434)
- Activates Security Control Panel and Emergency Dialer by pressing the panic button when under duress
- Ideal for Seniors, Handicapped and Disabled
- Water resistant, carry transmitter all the time
- Operates using lithium batteries (included)

Keypad Control (KP-433)
- Functions as an external keypad or secondary control location
- Use the keypad to arm/disarm the Audio Alarm (AA-433)
- Eliminates the need to walk through your premises to your Security Systems Control Panel
- Operates using lithium batteries (included)

ADDITIONAL ACCESSORIES

Smoke Sensor (SS-433)
- Detects sound frequencies of existing smoke, carbon monoxide alarms
- Activates Security Control Panel (SC-001) or Emergency Dialer (AD-433S) when the preset sound frequency is detected
- 9V alkaline battery included

Audio Sensor (AS-433)
- Detects alarm sound from existing security system alarm; sends signal to Dial-Alert.
- Eliminates need for monitoring service.
- 9V alkaline battery included

Keychain Transmitter (4B-433A)
- Activates and deactivate the Audio Alarm (AA-433) at the push of a button
- Reliable design with microcontroller
- 12V alkaline battery included

Garage Door Sensor (GS-433)
- Place sensor on garage door
- Activates Security Control Panel (SC-001) when the garage door is opened
- 12V alkaline battery included

Temperature Sensor (TS-433)
- Monitors temperature of a specific area (i.e., greenhouse, horse farms, laboratory etc.)
- Activates Security Control Panel (SC-001) or Emergency Dialer (AD-433S) when the temperature of the monitored area is above or below a preset temperature
- Temperature range: 0°F (-19°C) to 159°F (69°C)
- Operates using lithium batteries (included)

Flood Sensor (FS-433)
- Place sensor along basement wall, near water heater, washing machine etc.
- Notifies Security Control Panel (SC-001) or Emergency Dialer (AD-433S) when water is detected
- 12V alkaline battery included