Audio Sensor

Model AS-101

1. INTRODUCTION

The Audio Sensor is designed to detect sound level from the siren of your existing security system. Once the siren goes off, the Audio Sensor will be activated and therefore triggers the AAA+™ Control Panel. The Audio Sensor is designed to recognize only the siren from your existing security system, therefore it will not pick up any background noise if the sensor is installed properly.

In this package, you should find an audio sensor, a 9V alkaline battery, a cable, and hook and loop fasteners.

Audio Sensor

Hook and loop fasteners

Cable

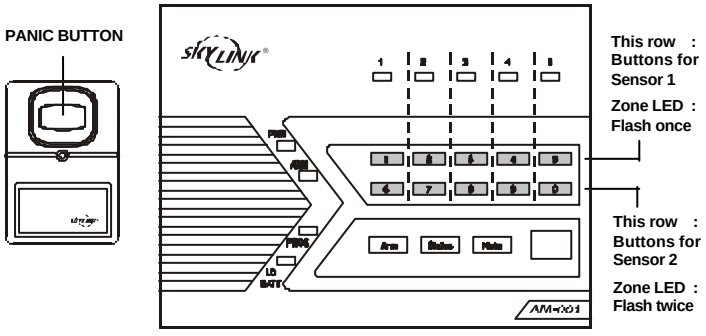
9V Alkaline battery

Please follow the instructions below to set up the audio sensor.

2. LEARN SENSOR TO AAA+™ CONTROL PANEL

In order for the sensor to communicate with the control panel properly, the sensor must be programmed to the control panel. Follow the brief instructions below or refer to the detail instructions from the AAA+™ User's Instructions to program the sensor to the control panel. Before proceeding the steps below, turn on the audio sensor by placing the On / Off switch to "On" position.

Step	Keys	Function	Description	Note
1	[PROG] [MPIN]	Enter Programming mode	Enter master password to programming mode	3 beeps for valid password. 1 long beep for invalid password.
2	[3]	Select learn sensor programming		After [3] is entered, some zone LEDs will flash once, or twice, some will be off. The zone LEDs represent whether that zone is already occupied by another sensor. **See Table A below.
3	[0] to [9]	Select sensor location	Refer to the diagram below to select the sensor location, which includes the zone and sensor number.	After you have selected the zone, that zone LED will be on.
4	Activate the sensor by pressing the panic button on the audio sensor.	Activate sensor	Once the sensor is activated, the signal will be transmitted to the Control Panel which will be stored.	You will hear [**Zone X Sensor Y Accepted**], where X and Y are the zone and sensor numbers you have selected.



	SENSOR 1	SENSOR 2
Zone 1	Button [1]	Button [6]
Zone 2	Button [2]	Button [7]
Zone 3	Button [3]	Button [8]
Zone 4	Button [4]	Button [9]
Zone 5	Button [5]	Button [0]

Note:
Each location is allowed to learn one sensor only. Learning a sensor to a location will clear the memory of the sensor previously learnt.

2. LEARN SENSOR TO AAA+™ CONTROL PANEL (CONT)

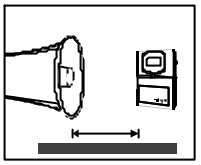
ZONE LED	DESCRIPTION
Off	Zone is not occupied by any sensor
Flashes once	This zone is occupied by sensor 1.
Flashes twice	This zone is occupied by sensor 2.
Flashes once, then twice	This zone is occupied by sensors 1 and 2.

**** Table A:** Zone LED status for learning sensors.

After learning the sensor to the control panel, you may test the communication by pressing the panic button on the audio sensor.
The control panel will announce the sensor's status, such as "Zone 1 Sensor 1 Triggered", and corresponding zone LED will flash and buzzer will beep. The beeping will last 20 seconds for every signal activation.

3. INSTALLATION

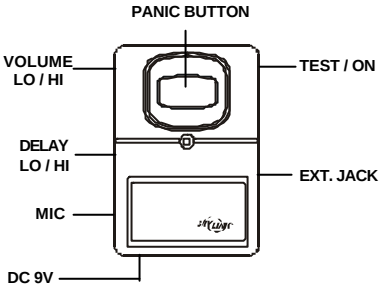
1. Place the Audio Sensor as close as possible to the siren or alarm unit of your existing security system. This distance between the sensor and the siren should be less than 6 inches.
   Note: Selecting the place to locate the AS-433 is very critical, since this will affect the operation and performance 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. Apply the hook and loop fastener to the back of the sensor as well as the desired mounting location.
3. Locate the Audio Sensor AS-101 and make sure it is secure.

Set up the Audio Sensor:

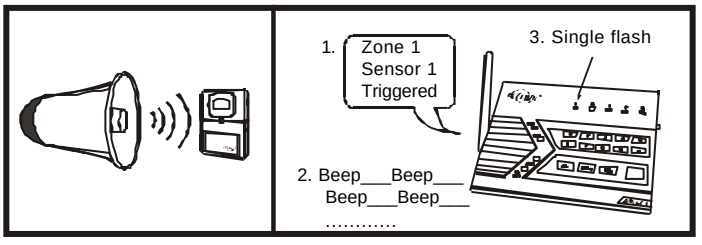
1. Turn on the unit to test mode (by sliding the ON/OFF/TEST switch to "TEST"). The red light indicator will flash once you turn on the unit.
2. Allow 15 seconds for the sensor to warm up.
3. Rotate the "Volume" to "LO". You may now trigger the alarm, or active the sound source you would like to detect.
4. If the light indicator on the AS-101 turns on as the siren is sounding, that means it can detect the sound from the siren and the installation of the AS-101 is now completed.
5. 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 to the "HI" position.
6. 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 5 until the red light indicator turns on.



7. You should test the sensor several times in order to ensure it can hear the siren.
8. Once you have set up the audio sensor, you should put the unit to "ON" mode by sliding the "ON/OFF/TEST" switch to "ON".

Caution: Please make sure the Audio Sensor can only be triggered by the actual alarm siren. Some of the alarm systems will emit other sounds under different situations such as entry delay beeps (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-101 can detect other sound patterns from the alarm systems, please adjust the "Volume" so that it can only detect the intented alarm.

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



4. 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-101 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 eliminate the chance of false alarm. Try to activate the audio sensor by the actual alarm to test its function as well as the communication with the AAA+™ control panel. You should activate the siren and the audio sensor should pick up the alarm signal, and therefore trigger the AAA+™ control panel.

Normally Closed (N/C) Relay Dry Contact
The audio sensor can work with security devices other than AAA+™ by Normally Closed Contact (wire connection). You may insert one end of the wire (included) to the audio sensor and connect the other end of the wire to the N/C contact of another security device. If the sensor is activated, it will trigger that security device through the wire connection.

Caution: Once the hardwire connection is established between the Audio Sensor and another device (optional), the Audio Sensor will be activated if the connection is broken or if the Audio Sensor is turned off.

External power supply (sold separately)
The Audio Sensor can be powered by either 9V alkaline battery or external AC 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 9V DC is not connected.

The rating of the adapter should be:
Output 9V, 50mA (min), ⊖-⊂-⊕

5. SENSOR FAILURE OR LOW BATTERY

Sensor Failure

The control panel constantly monitors its sensors, if the control panel fails to communicate with any sensors, it will notify the user by:

1. The zone LED of the failed sensor will be on steadily;
2. Voice announcement "zone X sensor Y failure" will be played.

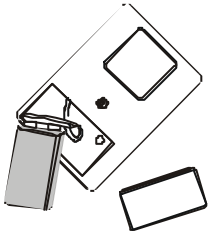
When sensor failure occurs, try the following:

1. Check if the sensor is located at where it should be, and whether there is any physical damage to the sensor.
2. If the failed sensor is not physically damaged, try to activate the sensor and see if the control panel reacts to such activation.
3. If not, try to remove the sensor from its location, and bring it closer to control panel and activate the sensor. It is possible that the sensor is installed too far from the control panel and it cannot establish a steady communication with the control panel. If this is the case, please install the sensor closer to the control panel.

Sensor Low Battery

Depending on the operating condition and environment, the battery life is approximately 6 months.

When the sensor is running low in battery, the sensor will send a wireless low battery signal to the control panel. The zone LED on the AAA+™ control panel representing that sensor will be on steadily, indicating sensor(s) in that zone is in trouble condition. Control Panel will also have an announcement to advise the user the trouble condition is low battery, such as "zone X sensor Y low battery", where X and Y represent the zone and sensor number. Please replace the battery of that sensor.



6. OTHER AAA+™ ACCESSORIES

The AAA+™ control panel can work with different accessories include: Garage door monitor™ sensor, Indoor/outdoor motion sensor, Door/Window sensor, Remote control, etc. Please visit www.skylinkhome.com or contact us at support@skylinkhome.com for more information of how to fully utilize your AAA+™ control panel.

7. FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING:
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

8. CE

Declaration of Conformity
This equipment complies with the requirements relating to electromagnetic compatibility, EN 301489-3:2002, EN300220-3:2000, EN60950-1:2001, EN50371:2002. This equipment conforms to the essential requirement of the Directive (1999/5/EC) of the European Parliament and of the Council.

9. WARRANTY

If, within one year from date of purchase, this product should become defective (except battery), due to faulty workmanship or materials, it will be repaired or replaced, without charge. Proof of purchase and a Return Authorization are required.

10. CUSTOMER SERVICE

If you would like to order Skylink's products or have difficulty getting them to work, please :
1. visit our FAQ section at www.skylinkhome.com , or
2. email us at support@skylinkhome.com, or
3. call our toll free at 1-800-304-1187 from Monday to Friday, 9 am to 5 pm EST.
   Fax (800) 286-1320

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