USER MANUAL

AX240

Axesstel Home Alert
Fixed Wireless Terminal
with Smart Security Alert

Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e. have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices are used in a normal manner with a well-constructed network, the device should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death or loss of property. Axesstel accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Axessteldevice or for failure of the Axesstel device to transmit or receive such data.

Safety Precautions

- Only use the supplied power adaptor, and do not use the power adaptor in temperatures over 40^{o}C, and only use in a dry location
- Only use 9V batteries in the main unit and the motion sensors, as there is a risk of explosion if an incorrect battery type is used
- Please dispose of any used 9V batteries at a proper facility
- Do not operate the device:
    - In areas where blasting is in progress
    - Where explosive atmospheres may be present
    - Near medical equipment
    - Near life support equipment or any equipment that may be susceptible to any form of radio interference. In such areas, the device MUST BE POWERED OFF. The Axesstel device can transmit signals that could interfere with this equipment.

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THE AXESSTEL ALERT PRODUCT THAT YOU HAVE PURCHASED, WHEN PROPERLY INSTALLED, CAN BE USED TO DETECT MOTION IN A SPECIFIED AREA AND PROVIDE AN ALERT TO TELEPHONES OR PERSONAL DIGITAL ASSISTANTS THAT YOU SPECIFY. THE PRODUCT IS DESIGNED SOLELY TO PROVIDE AN ALERT. IT DOES NOT PROVIDE SECURITY, OR PREVENT INTRUSION, THEFT OR CRIME.

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Introduction

This user manual will help you place, configure and use your AX240 Alert System.

Product Overview

The AX240 Axesstel Home Alert is a fixed cellular terminal with a wireless alert system. As a terminal, the AX240 has an RJ-11 interface for POTS phones to make and receive phone calls as done through a landline. As a home alert, a built-in cellular modem can send an SMS or place a phone call to a series of pre-assigned phone numbers when a sensor is triggered. Up to 8 contacts can be notified of the alert. The arming and disarming can be triggered by keypad input or by sending an SMS. Smartphone applications are available on 'Google Play' for Android and 'App Store' for iOS. The AX240 Axesstel Home Alert has LED indicators to represent the status of the product and sensors. It is easy to set up and configure in a few simple steps. The system is expandable to connect up to 200 sensors utilizing Z-Wave protocol. The AX240 is powered by an AC adapter with a 1600mAh rechargeable battery backup to provide continued functionality in the event of a power outage. This self-monitoring alert system can provide peace of mind and security without the need for an expensive security contract.

Some features described in this manual may not be supported by your service provider or may not be available with your network account. For details of the services and accounts available, contact your service provider.

1. Features

- ***Android and iOS Applications for AX240 Management***
- ***800MHz/1900MHz CDMA2000 1x-Advanced***
- ***Z-Wave Short Range Wireless Protocol***
- ***Call Alerting Numbers - Stores 5 pre-assigned numbers***
- ***SMS Alerting Numbers - Stores 3 pre-assigned number***
- ***Remote Arm/Disarm Capabilities via Smartphone application***
- ***10 Multiple LED Indicators (Alert Panel) - Power, Battery, CDMA, Setting/Register, Active, Zone Status Indicator 1 – 4, Account***
- ***OMA-DM HFA or OTASP Activation***
- ***Standard Telephone Keypad with Tactile Feel***
- ***Audible Siren for Alert Trigger***
- ***Audible Beeper and LED Indicationfor Programming Configuration***
- ***Panic Button for Emergency Situations***

- ***Event History Log***
- ***Silent Alarm Capability***
- ***Low Battery Warning LED for Sensors on Base Unit***
- ***Tamper Prevention on Alert Panel, Motion Sensor, and Window/Door Sensors***
- ***Z-Wave Capabilities Include Motion Sensors, Door/Window Sensors, Keyfob, and Others***
- ***Configure up to 200 Sensors/Motion Detectors***
- ***Armed Away, Armed Home, and Disarm Modes***
- ***4 Alert Function Keys – Arm/Disarm, Stay, Panic, Function***
- ***Store/Manage User Defined 4-Digit Passcodes***
- ***Delayed Entry/Exit Mode***
- ***5 Multiple LED Indicators (Base Unit) – Power, Battery, Voicemail Waiting Indicator, Mode, CDMA***
- ***2 RJ-11 Ports (Bridged) to Connect to POTS Phones***
- ***Dial Tone and DTMF Generation***
- ***AGPS for E911 Service Support***
- ***Call Waiting, Call Forwarding, Three-Way Calling, and Hook Flash***
- ***FUMO Support***

- ***Automatic Sender Caller ID***
- ***Built-in Speaker and Microphone to Monitor Surroundings***
- ***Rechargeable 1600mAh Li-Ion Backup Battery (Base Unit)***
- ***USB Diagnostic Port for Firmware Upgrades***

2. Benefits

Wireless Alert Notification - SMS/Call Alerts if the Motion Sensor is Triggered
The AX240 Axesstel Home Alert has a built-in 1x-Advanced cellular modem that can notify up to 8 friends and neighbors via call and SMS when motion is detected to increase chances of a close-by responder.

Landline Phone Replacement
The AX240 has an RJ-11 interface for POTS phones to make and receive phone calls as done through a landline. Current phone numbers can be maintained and monthly costs can be decreased.

Emergency Backup Battery

An AC adaptor with a 1600mAh backup battery provides the base unit with continued functionality in the event of a power outage. The alert panel contains an AC adaptor and a 9V backup battery.

Remote Control Convenience

The arming and disarming of the AX240 Alert System can be triggered by keypad input or by sending a remote SMS from one of your registered numbers. A smartphone app may also be used from your Android or iOS smartphone.

Affordable, Easy to Setup, Configure, and Use

Setup and configuration of the AX240 Axesstel Home Alert is accomplished simply. The base unit has 5 LED indicators and the alert panel has 10 LED indicators to represent the product status. This reasonably priced system can be configured for use with up to 200 sensors or motion detectors. All the accessories in the box have been pre-associated with the main unit and are ready to be used.

Using your Axesstel Home Alert

1. Package Contents

Standard contents may vary from carrier to carrier. The items listed below may be added to depending upon carrier preferences.

- AX240 Base Unit
- AZ900 Alert Panel
- Motion Sensor
- Power Adaptors
- Mounting Kits
- User Manual/Quick Start Guide

2. Knowing your Main Unit

Your Axesstel Home Alert is designed to be wall mounted, or it can simply be placed on a shelf. All the LEDs are easily visible while the power cord will connect at the back. See figure 1 for a depiction of the device.

AX240 Base Unit

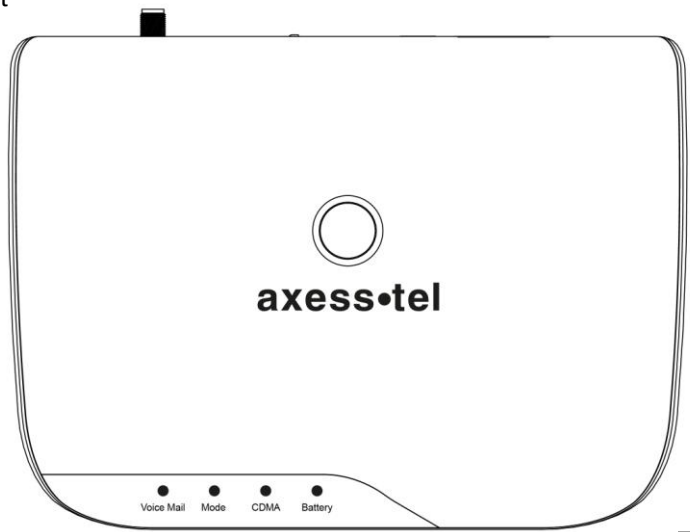


Figure 1

AZ900 Alert Panel

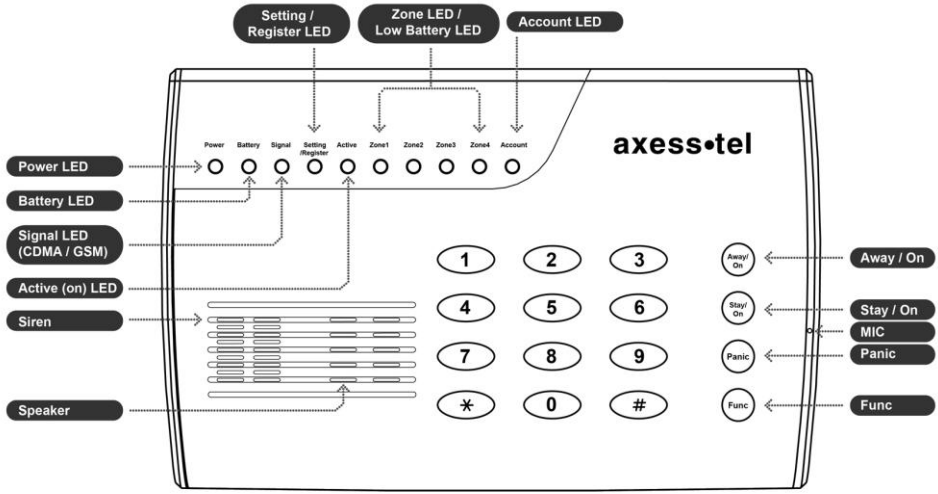


Figure 2

2.1 LEDs

The AX240 base unit has 5 LEDs. The functionality of the LEDs is found in the table below.

Base Unit LED description

LED	Color		Function
Power	Green	●	Device is powered on
	OFF	○	The device is powered off
Battery	Green	●	Battery is sole source, power above mid-level
	Blink Green	✹	AC is sole source, battery charging
	Red	●	Battery is sole source, voltage low
	Blink Red	✹	AC is sole source, no battery
CDMA	Green	●	Camped on network
	Red	●	No CDMA coverage
Mode	Green	●	Incoming call
	Red	●	Off hook
	OFF	○	On hook
VoicemailWaitingIndicator	Red	●	Voicemail in the system
	OFF	○	No new voicemail

E911 Call	All LEDs Blinking	All LEDs blink during emergency call

The AZ900alert panel has 10 LEDs. The functionality of the LEDs is found in the table below.

Alert Panel LED description

LED	Color		Function
Power	Green	●	Device is powered on
	OFF	○	The device is powered off
Battery	Blink Green	✹	Battery is good/ powered by battery
	Red	●	Battery is low/ powered by battery
	OFF	○	No battery in use
Signal (CDMA/GSM)	Green	●	Good signal coverage
	Blink Green	✹	Mid-signal coverage
	Red	●	Lowsignal coverage
	OFF	○	No coverage
Setting /Register	Green	●	In setting status
	Blink Green	✹	In registration status, push button in sensor to add

Active (On)	Red		Device is armed
	OFF		Device is disarmed
Zone1	Green		Sensor is Armed
	Red		Sensor Alarm detected
	OFF		Sensor is Disarmed
	Blink Red		Sensor Low battery warning
Zone2	Green		Sensor is Armed
	Red		Sensor Alarm detected
	OFF		Sensor is Disarmed
	Blink Red		Sensor Low battery warning
Zone3	Green		Sensor is Armed
	Red		Sensor Alarm detected
	OFF		Sensor is Disarmed
	Blink Red		Sensor Low battery warning
Zone4	Green		Sensor is Armed
	Red		Sensor Alarm detected
	OFF		Sensor is Disarmed
	Blink Red		Sensor Low battery warning

Account (Bill)	OFF	○	Optional use by Network
Programming Mode	Green	●	When in Programming Mode the Power, Battery, Signal and Setting/Register LEDs will be green
Programming Mode Exit	Blink Red	✹	When in Programming Mode after a key is pressed, if 5 seconds elapse before another key is pressed all 4 Zone LEDs will blink red 3 times and the programming sequence will need to begin anew. If 30 seconds elapse before another key is pressed, the Axesstel Home Alert will exit the programming mode and all LEDs will return to their normal state
Programming Success	Blink Green	✹	When in Programming Mode successful programming will result in all 4 Zone LEDs blinking green 1 time
Programming Failure	Blink Red	✹	When in Programming Mode failed programming will result in all 4 Zone LEDs blinking red 3 times

2.2 Battery Installation into Base Unit

Your AX240 base unit provides battery backup support with a 1600mAh rechargeable Li-Ion battery. Please see figure3 below to install the battery.

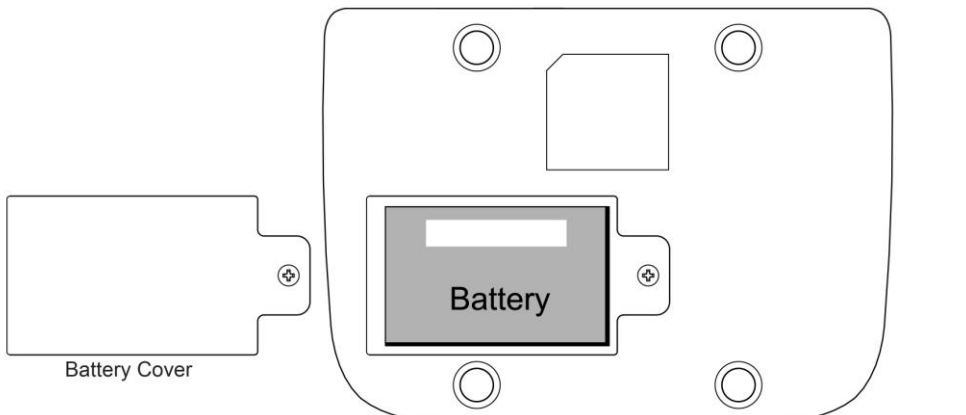


Figure 3

2.3 Battery Installation into Alert Panel

Your AZ900 alert panel provides battery backup support. Please see figure 4 below to install the 9V battery.

2.4 Battery Installation into Motion Sensor

To install the battery into the Motion Sensor please see figure4 below.

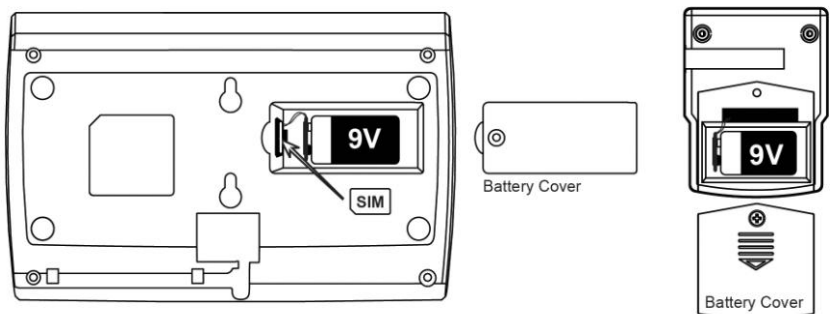


Figure 4

2.5 Connecting the Power Adaptorinto the Base Unit

To connect the power adaptor to the base unit,please see figure 5 below.

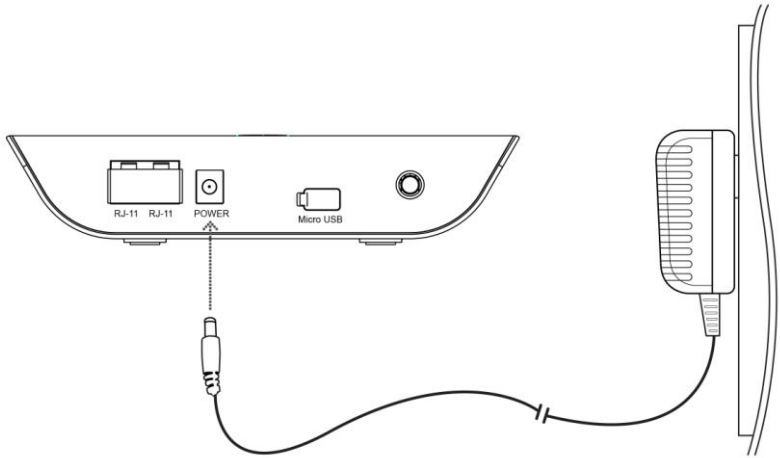


Figure 5

2.6 Connecting the Power Adaptorinto Alert Panel

To connect the power adaptor to the alert panel,please see figure 6 below.

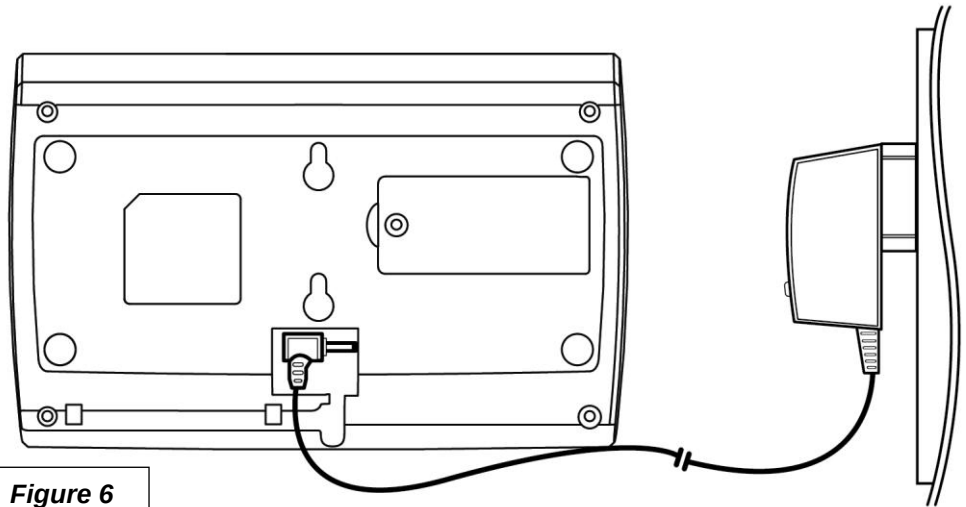


Figure 6

2.7 Setting Up the Base Unit

Connect the antenna by screwing it into the connector on the back of the AX240 base unit. Connect a wired or cordless telephone to the base unit sing the supplied RJ-11 cord. Plug the power adaptor cable into the base unit. Plug the power adaptor into an AC power wall outlet. See figure 7 below.

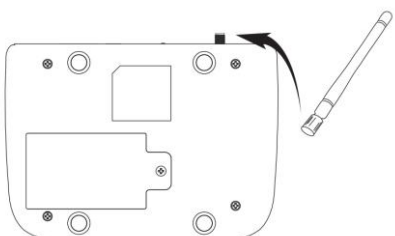


Figure 7

Note: Use only wired or cordless telephones that conform to FCC part 68 requirements. Non-compliant telephones may not work properly.

WARNING: Do not connect this device to your telephone wall outlet. This configuration is not supported unless you have taken steps to disconnect existing landline wiring coming into your home or office.

2.8 Placement of the Base Unit

The base unit should be placed on any convenient desktop or table top in the house.

2.9 Placement of Alert Panel

The keypad can be placed at any convenient access point in the house.

2.10 Placement of Motion Sensor

The motion sensor should be placed on shelves or walls and can detect motion within 12 meters, great for rooms with lots of windows.

3. Using your 200 Series as a Landline Replacement Phone

3.1 Power On/Off

The power button is located on the top of the AX240. Plug the power adapter into an AC power wall outlet.Plug the power adapter into the power connector on the back of the device.

Push the power button on top of the device for several seconds, then release. The green light will illuminate. Turn the AX240 off by pushing the power button on top of device for several seconds, then release. The green light will turn off.

3.2 Activation

To activate your AX240 using Over the Air Service Provisioning (if supported by your carrier) turn on your device.The device will begin its initiation process and start to acquire the network. Wait 2 minutes to complete. From your connected phone dial *228 and follow the voice prompts to complete the activation.

NOTE: Check with your service provider before activation as your device may already be activated.

3.3 Setting Up Your Voicemail

You should set up your voicemail and personal greeting as soon as your device is activated. Always use a password to protect against unauthorized access. Please check with your service provider for the voicemail access number. Your device automatically transfers all unanswered calls to your voicemail, even if your device is in use or turned off. Dial your voicemail number (the phone number assigned to your phone). Follow the prompts to create your password, record your name announcement, and record your greeting.

3.4 Making Calls

Check if the device is turned on.Lift the handset on any connected phone. You should hear a dial tone.Dial a number as you usually would. Wait for about 3 seconds while your device connects with the number you dialed.

NOTE: You can dial phone numbers with up to 32 digits including

and

3.5 Answering Calls

When connected to your AX240, your phone will ring exactly as if it were connected to a landline. Lift the handset on any connected phone to answer a call.

3.6 Default Reset

If you want to clear any changes you have made to your AX240's settings and reset it to the default settings lift the handset on any connected phone.

Press:

Enter the four-digit lock code (default is "1234"). Press

to reset. You will hear two short tones if successful or four short tones if the reset was unsuccessful.

3.7 Factory Reset

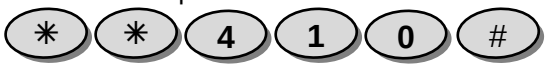
To reset your device to factory conditionlift the handset on any connected phone.

Press:

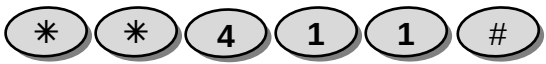
Enter the six-digit SPC default code (the default code is “000000”). You will hear two short tones if successful and your device will reset or four short tones if the reset was unsuccessful.

3.8 TTY/TDD Mode Setting

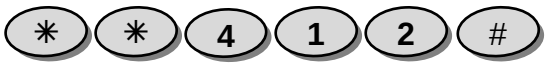
Configure your device for TTY use. The default setting is OFF. Lift the handset on any connected TTY/TDD phone and choose one of the following options:

Press 

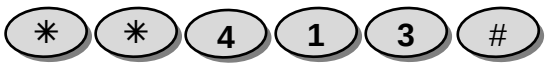
for TTY Full Mode.

Press 

for TTY Talk Mode.

Press 

for TTY Hear Mode.

Press 

to turn TTY off.

3.9 Caller ID

Caller ID allows people to identify a caller before answering the phone by displaying the number of the incoming call. If you do not want your number displayed when you make a call, follow these steps.

Press

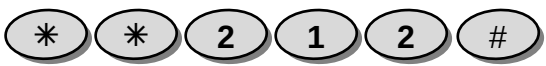
. Enter your phone number.

3.10 Setting Caller ID Mode

If the phone you have connected to your AX240 has an LCD display, the caller's number will appear by default. To change this setting lift the handset of any connected phone.

Press

to disable the Caller ID feature.

Press 

to re-enable the Caller ID.

3.11 Call Waiting

When you're on a call, Call Waiting alerts you to incoming calls. When you hear a beep from the receiver on any connected phone during a call, it means a second caller is trying

to connect. To use call waiting press the hook or the flash button (if present) to answer the second call. Press the hook or the flash button again to return to the first call.

3.12 Three-Way Calling

With Three-Way Calling you can talk to two people at the same time. When using this feature, the normal airtime rates will be charged for each of the two calls. To use Three-Way Calling call the first party, place a second call by pressing the hook or the flash button (if present), enter the second party's number, and press the hook or flash button again to dial the number. When you are connected to the second party, press the hook or flash button to start the three-way call.

3.13 E911 Information

Your device features an embedded Global Positioning System (GPS) chip necessary for utilizing E911 emergency location services where available. During the emergency call, all the LEDs on the AX240 will blink and your location can then be determined by the 911 operator.

IMPORTANT: Always report your location to the 911 operator when placing an emergency call. Some designated emergency call takers, known as Public Safety

Answering Points (PSAPs) may not be equipped to receive GPS location information from your device.

4. Using your 200 Series as an Alert System

Now that the battery is installed and the power adaptor is connected you are ready to use some of the more advanced features of the Axesstel Home Alert. Your 100 Series device has four operational modes. They are programming mode, armed mode, disarmed mode, and alarmed mode. The following sections will describe the device's functionality within each of these four modes.

4.1 Programming Mode

The programming mode is used for setting the parameters of the Axesstel Home Alert such as changing the password, adding/deleting SMS/Call numbers, setting entry/exit delay, and adding/removing motion sensors and other accessories. The programming mode is also used to restore the device to factory settings. To access the programming mode please use your keypad and enter the following:

Func Key→password→Func Key

Please note: All functions listed in this section of the user's guide require that you be in the programming mode to perform them. When you are in the programming mode the Power, Battery, Signal, and Setting/Register LEDs will all be solid green. When in the programming mode and a sequencehas been initiated a 5 second timer will be kept. After a key is pressed, if 5 seconds elapse before another key is pressed all 4 Zone LEDs will blink red 3 times and the programming sequence will need to begin anew. If 30 seconds elapse before another key is pressed, the Axesstel Home Alert will exit the programming mode.

When programming is complete to exit the programming mode use your keypad and enter the following or simply wait for 30 seconds to elapse. All LEDs should return to their normal state.

Func Key→Func Key

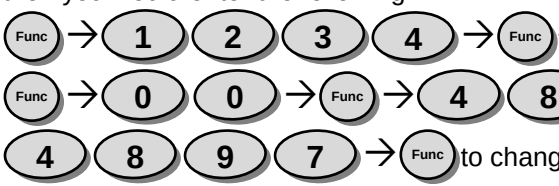
4.1.1 Changing the Password

To change the default password use your keypad to enter the following:

Func Key→**00**→Func Key→new password→✳→new password→Func Key

Please note: It is advisable to change your password as soon as you connect the Axesstel Home Alert.

*Example: The default password is 1234. If you want to change your password to 4897, then you would enter the following:



4.1.2 Adding SMS Numbers

When a motion sensoror other accessory is triggered in any zone, you can choose to send an SMS to up to 3 numbers. SMS numbers can be added into your Axesstel Home Alertin two different manners.

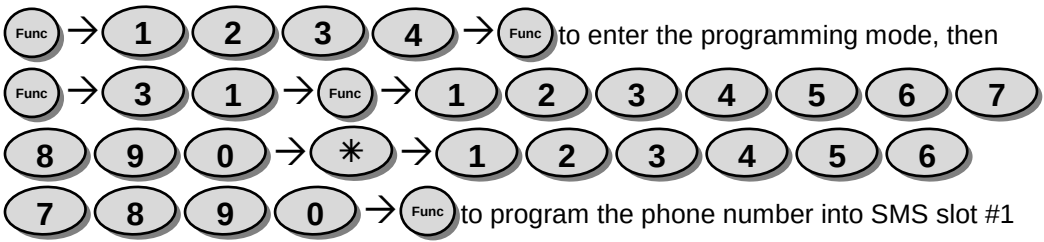
A phone call from the desired number will register that number in the designated slot by following these instructions. You must be in the programming mode to perform this function.

Add SMS #1	Func Key→31→Func Key→00→Func Key	Then call from phone number
Add SMS #2	Func Key→32→Func Key→00→Func Key	Then call from phone number
Add SMS #3	Func Key→33→Func Key→00→Func Key	Then call from phone number

As an alternative the SMS numbers can be programmed entirely via the keypad. Once in the programming mode please enter the following:

Add SMS #1	Func Key→31→Func Key→SMS #1→✳→SMS #1→Func Key
Add SMS #2	Func Key→32→Func Key→SMS #2→✳→SMS #2→Func Key
Add SMS #3	Func Key→33→Func Key→SMS #3→✳→SMS #3→Func Key

*Example: If you want to add phone number 123-456-7890 into the first SMS slot, then you would enter the following:



Please note: You have to enter the desired number twice. The number that you entered will need to match. If the numbers entered**do not** match then there will be a long beep and all 4 Zone LEDs will blink red 3 times. If the numbers match then you will hear 2 beeps and all 4 Zone LEDs will blink green 1 time.

4.1.3 Removing SMS Numbers

To remove the SMS numbers please enter the keypad sequences below. You must be in the programming mode to perform this function.

Delete All SMS #'s	Func Key→40→Func Key
Delete SMS #1	Func Key→41→Func Key
Delete SMS #2	Func Key→42→Func Key
Delete SMS #3	Func Key→43→Func Key

4.1.4 Adding Call Numbers

When a motion sensoror other accessory is triggered in any zone, you can choose to make a phone call to up to 5 numbers. Call numberscan be added into your Axesstel Home Alertin two different manners.

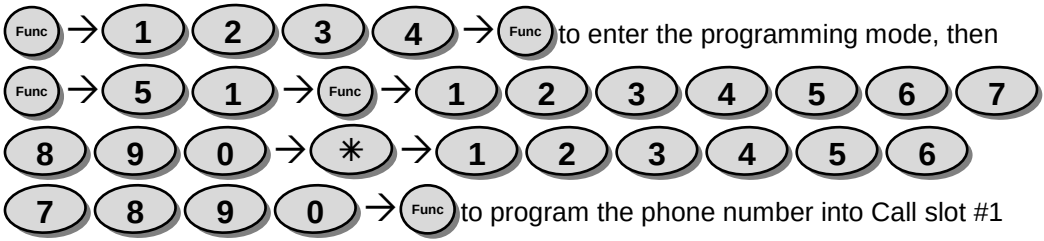
A phone call from the desired number will register that number in the designated slot by following these instructions. You must be in the programming mode to perform this function.

Add Call #1	Func Key→51→Func Key→00→Func Key	Then call from phone number
Add Call #2	Func Key→52→Func Key→00→Func Key	Then call from phone number
Add Call #3	Func Key→53→Func Key→00→Func Key	Then call from phone number
Add Call #4	Func Key→54→Func Key→00→Func Key	Then call from phone number
Add Call #5	Func Key→55→Func Key→00→Func Key	Then call from phone number

As an alternative the call numbers can be programmed entirely via the keypad. Once in the programming mode please enter the following:

Add Call #1	Func Key→51→Func Key→Call#1→✳→Call#1→Func Key
Add Call #2	Func Key→52→Func Key→Call #2→✳→Call #2→Func Key
Add Call #3	Func Key→53→Func Key→Call #3→✳→Call #3→Func Key
Add Call #4	Func Key→54→Func Key→Call #4→✳→Call #4→Func Key
Add Call #5	Func Key→55→Func Key→Call #5→✳→Call #5→Func Key

*Example: If you want to add phone number 123-456-7890 into the first Call slot, then you would enter the following:



Please note: You have to enter the desired number twice. The number that you entered will need to match. If the numbers entered**do not** match then there will be a long beep and all 4 Zone LEDs will blink red 3 times. If the numbers match then you will hear 2 beeps and all 4 Zone LEDs will blink green 1 time.

4.1.5 Removing Call Numbers

To remove the Call numbers please enter the keypad sequences below. You must be in the programming mode to perform this function.

Delete All Call #'s	Func Key→60→Func Key
Delete Call #1	Func Key→61→Func Key
Delete Call #2	Func Key→62→Func Key
Delete Call #3	Func Key→63→Func Key
Delete Call #4	Func Key→64→Func Key
Delete Call #5	Func Key→65→Func Key

4.1.6 Adding Sensors

To add motion sensors (AZ100) to the Axesstel Home Alert please follow the instructions below. Up to 200 Motion sensors and other accessories can be added across 4 zones. In the rear housing of the motion sensor, there is a small push button switch which is used for adding the sensor (inclusion) and removing (exclusion) the sensor. The following will add the AZ100 sensors (inclusion/association) to the 100 Series Axesstel Home Alert (see figure 4 below).

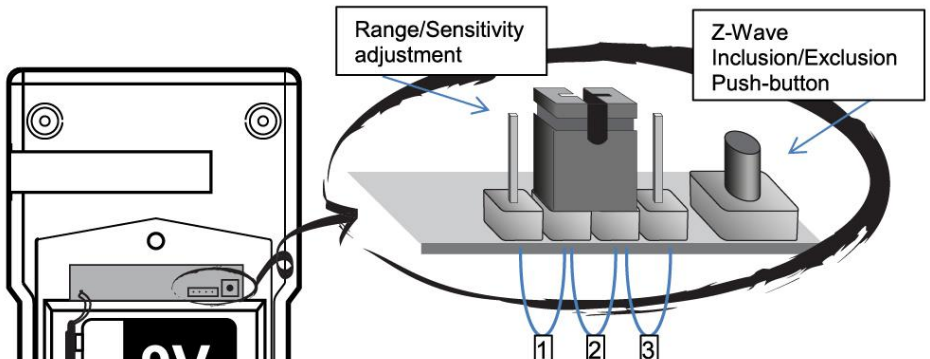
Please note: You will need to remove the motion sensor battery cover in order to register your sensor. You must be in the programming mode to perform this function.

Add Sensor in Zone 1	Func Key→11→FuncKey	Zone 1 LED will light then press the sensor button.
Add Sensor in Zone 2	Func Key→12→FuncKey	Zone 2 LED will light then press the sensor button.
Add Sensor in Zone 3	Func Key→13→FuncKey	Zone 3 LED will light then press the sensor button.
Add Sensor in Zone 4	Func Key→14→FuncKey	Zone 4 LED will light then press the sensor button.

Please note: You need to press the button of the desired sensor within 30 seconds to registerit correctly. If the sensor has not been registered properly there will be a long beep and all 4 Zone LEDs will blink red 3 times. If the sensor has been registered properly then you will hear 2 beeps and all 4 Zone LEDs will blink green 1 time.

To add additional sensors in your desired zone please repeat the above instructions.

The location of the button in the AZ100 motion sensor is depicting in figure 8. All approved Z-wave accessories will have an inclusion/exclusion button. Consult the literature provided with those accessories to properly locate the button.



Position	Range/Sensitivity
1	12m/100%
2	9m/75%
3	7m/50%

Figure 8

4.1.7 Pet Immunity

The AZ100 passive infrared (PIR) motion detector can be adjusted to provide pet immunity.
Remove the back cover of the PIR motion sensor (see figure 6) to adjust the range/sensitivity setting. Moving the jumper to the number 3 position will adjust for minimum sensitivity. You can also adjust the angle of the sensor slightly upwards to further minimize pet sensitivity. The sensitivity setting can be adjusted prior to or after the sensor has been registered.

4.1.8 Removing Sensors

To remove/delete (exclusion) any motion sensors or other accessories please follow the instructions below. You must be in the programming mode to perform this function.

Remove motion sensor or other accessory	Func Key→10→Func Key	Press the sensor button

Please note: You need to press the button of the desired sensor within 30 seconds to remove (exclude) it correctly. If the procedure has not been accomplished properly

therewill be a long beep and all 4 Zone LEDs will blink red 3 times. If the sensor has been removed properly then you will hear 2 beeps and all 4 Zone LEDs will blink green 1 time.

4.1.9 Adding the Key Fob

To add the 4-Button Key Fob (AZ300) to the Axesstel Home Alert please follow the instructions below. You must be in the programming mode to perform this function.

Func Key→16→FuncKey	Press the Arm and Panic Keys simultaneously for at least 0.5 seconds

You need to press the Key Fob button within 30 seconds to registerit correctly. If the Key Fob has not been registered properly there will be a long beep and all 4 Zone LEDs will blink red 3 times. If the Key Fob has been registered properly then you will hear 2 beeps and all 4 Zone LEDs will blink green 1 time.

4.1.10 Adding the Panic Key Fob

To add the 1-Button Panic Key Fob (AZ310) to the Axesstel Home Alert please follow the instructions below. You must be in the programming mode to perform this function.

Func Key→16→FuncKey	Press and Release the Panic Key 3 times

You need to press the Panic Key Fob button within 30 seconds to registerit correctly. If the Panic Key Fob has not been registered properly there will be a long beep and all 4 Zone LEDs will blink red 3 times. If the Panic Key Fob has been registered properly then you will hear 2 beeps and all 4 Zone LEDs will blink green 1 time.

4.1.11 Set Entry Mode

You can modify the entry time delay to suit your needs. This will delay a sensor from being triggered from between 0 and 45 seconds. The default entry delay is set to 30 seconds. To adjust the entry delay please follow the instructions below. You must be in the programming mode to perform this function.

No Entry Delay	Func Key→70→Func Key
15 Second Delay	Func Key→71→Func Key

30 Second Delay	Func Key→72→Func Key
45 Second Delay	Func Key→73→Func Key

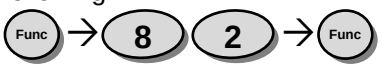
Example: If you want to set the entry delay to 15 seconds, then you would enter the following:

4.1.12 Set Exit Mode

You can modify the exit time delay to suit your needs. This will delay a sensor from being triggered from between 0 and 120 seconds. The default exit delay is set to 30 seconds. To adjust the exit delay please follow the instructions below. You must be in the programming mode to perform this function.

No Exit Delay	Func Key→80→Func Key
30 Second Delay	Func Key→81→Func Key
60 Second Delay	Func Key→82→Func Key
90 Second Delay	Func Key→83→Func Key
120 Second Delay	Func Key→84→Func Key

The setting of 'No Exit Delay' can only be enabled when the Axesstel Home Alert 100 Series device is armed remotely.
Example: If you want to set the exit delay to 60 seconds, then you would enter the following:



4.1.13 Factory Reset

If your unit malfunctions or develops any form of software fault then it may be necessary to perform a factory reset. To do so, please follow the instructions below. After a factory reset is performed you will need to re-program your SMS/Call numbers and any other parameters you have changed. You must be in the programming mode to perform this function.

Func Key→90→Func Key

4.1.14 Test Mode 1 – Call

Test Mode 1 allows the Axesstel Home Alert to make a phone call to any phone number.Please follow the instructions below. You must be in the programming mode to perform this function.

Func Key→92→Func Key→phone number→Func Key

4.1.15 Test Mode 2 – SMS

Test Mode 2 allows the Axesstel Home Alert to send an SMS to any phone number. Please follow the instructions below. You must be in the programming mode to perform this function.

Func Key→93→Func Key→phone number→Func Key

4.2 Armed Mode

After the Axesstel Home Alert has been installed, motion sensors have been added, and the SMS/Call numbers have been programmed it can be used as an alert system. Once in armed mode any sensor that is triggered in an active zone will initiate the alerting process. There are 4 different armed modes: Armed Away, Armed Away Silent, Armed Stay, and Armed Stay Silent.

4.2.1 Armed Away

In the Armed Away mode, when a sensor is triggered, the 100 Series Axesstel Home Alert will emit a high-pitched continuous siren for 4 minutes. All programmed SMS and Call numbers will be sent an alert notifying them of the alarm.

To activate the ArmedAwaysimply press the Away/On Key.

Away/On Key	Activates Armed Away Mode

4.2.2 Armed Away Silent

The Armed Away Silent mode provides essentially the same functionality as the Armed Away mode except when a sensor is triggered no high-pitched siren is audible.The intruder will be unaware that the alarm has been triggered, although SMS/Calls will be sent.

To activate the Armed AwaySilent simply press the #1 and Away/On Key.

→

1→Away/On Key	Activates Armed Away Silent Mode

4.2.3 Armed Stay

Occasionally you may want to arm only a certain part of your house, and this can be achieved by using the Armed Stay mode.

Please note: Zones one, two and three will be excluded when using the Armed Stay mode.You can activate your alarm so that any motion in zonefour will trigger the alarm,

but if there is any movement in zones one, two or three then the alarm will not be triggered.

In the Armed Stay mode, when a sensor is triggered, the 100 Series Axesstel Home Alert will emit a high-pitched continuous siren for 4 minutes. All programmed SMS and Call numbers will be sent an alert notifying them of the alarm.

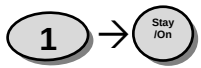
To activate the Armed Staysimply press the Stay/On Key.

Stay/On Key	Activates Armed Stay Mode

4.2.4 Armed Stay Silent

The Armed Stay Silent mode provides essentially the same functionality as the Armed Away mode except when a sensor is triggered no high-pitched siren is audible.The intruder will be unaware that the alarm has been triggered, although SMS/Calls will be sent.

Please note: Zones one, two and three will be excluded when using the Armed Stay Silent mode. You can activate your alarm so that any motion in zonefour will trigger the alarm, but if there is any movement in zones one, two or three then the alarm will not be triggered.

To activate the Armed StaySilent simply press the #1 and Stay/On Key. 

1→Stay/On Key	Activates Armed Stay Silent Mode

4.2.5 Remote Arming via Key Fob

You can also arm the Axesstel Home Alert remotely via the Key Fob. Please refer to the instructions included with your Key Fob.

4.2.6 Remote Arming via Smartphone App

You can also arm the Axesstel Home Alert remotely via the Smartphone (Android/iOS) App. Please refer to App section in this user's manual.

4.2.7 Continued Arming

If a sensor has been triggered and after 4 minutes the device has not been disarmed, it will automatically re-arm. At this point another SMS will be sent to the programmed SMS numbers (no Calls are made in this instance). This is the case in all 4 armed modes.

4.3 Disarmed Mode

When you return home or wherever you have your Axesstel Home Alert set up you will want to place it in a disarmed state so no alert notifications are sent. The amount of time you have to disarm your device is dependent on the entry time delay previously programmed.There are multiple ways the Axesstel Home Alert can be placed in the disarmed mode.

4.3.1 Disarm via Keypad

To disarm the Axesstel Home Alert using the keypad simply enter your password.

Password

4.3.2 Remote Disarm via Key Fob

You can also arm the Axesstel Home Alert remotely via the Key Fob. Please refer to the instructions included with your Key Fob.

4.3.3 Remote Disarm via Smartphone App

You can also disarm the Axesstel Home Alert remotely via the Smartphone (Android/iOS) App. Please refer to App section in this user's manual.

4.4 Alarmed Mode

The alarmed mode isentered when a sensor is triggered and alerts have been sent. When one of the disarm procedures above is followed the device will be in disarmed mode, however, the alerts will have already been issued. If no disarm command is received within 4 minutes the Axesstel Home Alert will re-arm as described in the continued arming section above. Under this scenario the 100 Series will revert back to whatever armed status was previously programmed into the device and an additional SMS will be sent. The alarmed mode can also be initiated by pressing the panic button.

4.4.1 Panic Button

Your Axesstel Home Alert features a panic button, that when pressed, will immediately activate the siren, as well as alerting your friends and neighbors via SMS and Calls. To activate the panic button simply press the ‘PANIC’ button which is located on your main unit.

Panic

Please note: Once the panic button has been activated it can be disabled by the keypad only, not remotely by SMS application nor key fob.

4.5 Additional Functions&Features

This section lists some of the additional functionality and features included in your Axesstel Home Alert

4.5.1 Audio Monitoring/2-Way Communication

You can dial in to your Axesstel Home Alert and the speaker in the 100 Series allows you to monitor the surroundings. Using the speaker and microphone also allows you to call in and have a 2-way conversation with your children or whoever is in the vicinity.

4.5.2 Tamper Prevention

The Axesstel Home Alert possesses tamper prevention functionality. When the base unit is tampered with (in both Away and Stay modes) an alarm is triggered and alerts are sent. If no disarmed SMS is received 30 seconds it is an indication that the system may be smashed.

4.5.3 Audible Siren

The Axesstel Home Alert possesses a siren that will sound when a sensor is triggered. The siren provides a sound equivalent to that of an omni-directional source with a pressure level of over 80 decibels.

4.5.4 Axesstel Home Alert Accessories

The list of items below are accessories for the 100 Series Axesstel Home Alert available through Axesstel's distribution network. Contact your point of purchase for availability.

AZ100 - Motion Sensor
AZ112 - Window/Door Sensor
AZ300.-.4-Button Key Fob
AZ310.- Panic Key Fob

5. AX240 Smartphone Application

The below sections define the Smartphone Application for the Axesstel Home Alert 200 Series. When the device is set up, a phone number must be manually entered into the main unit in order for it to be recognized from the app. Once in programming mode this can be done by one of the two methods below:

Func Key→31→Func Key→SMS #1→✳→SMS #1→Func Key or
Func Key→31→Func Key→00→Func Key Then call from phone number

5.1 AX240 App for Android

The AX240 App for android is available from Google Play.

Preconditions	1. Phone is powered on and registered in the network andis able to launch Google Play
Procedure	1. Open Google Play 2. Search for AX240 App 3. Download the application to the device

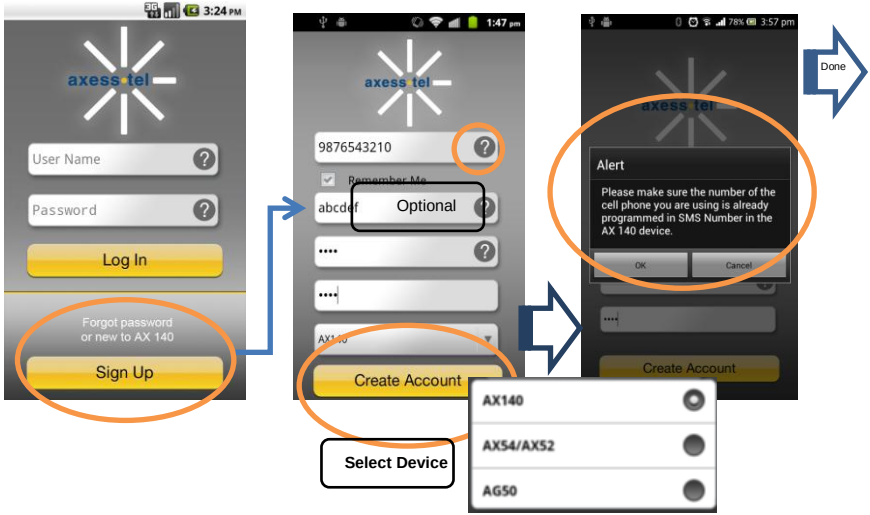
5.2 AX240 App for iPhone

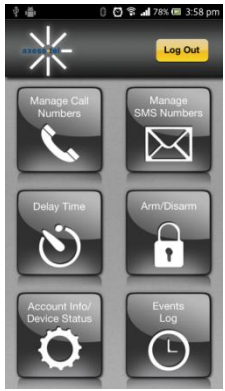
The AX240 app for iPhone is available from the Apple App Store

Preconditions	1. Phone is powered on 2. Launch App Store
Procedure	1. Open App Store 2. Search for AX240 App 3. Download the application to the device

5.3 AX240 App creating user account (Android/iOS)

Preconditions	1. Phone is powered on 2. The AX240 application has been downloaded and open


3:24 PM
axess tel
User Name
Password
Log In
Forgot password
or new to AX 140
Sign Up
1:47 pm
axess tel
9876543210
Remember Me
abcdef
Optional
Create Account
Select Device
AX140
AX54/AX52
AG50
3:57 pm
axess tel
Alert
Please make sure the number of the cell phone you are using is already programmed in SMS Number in the AX 140 device.
OK
Cancel
Create Account
Done

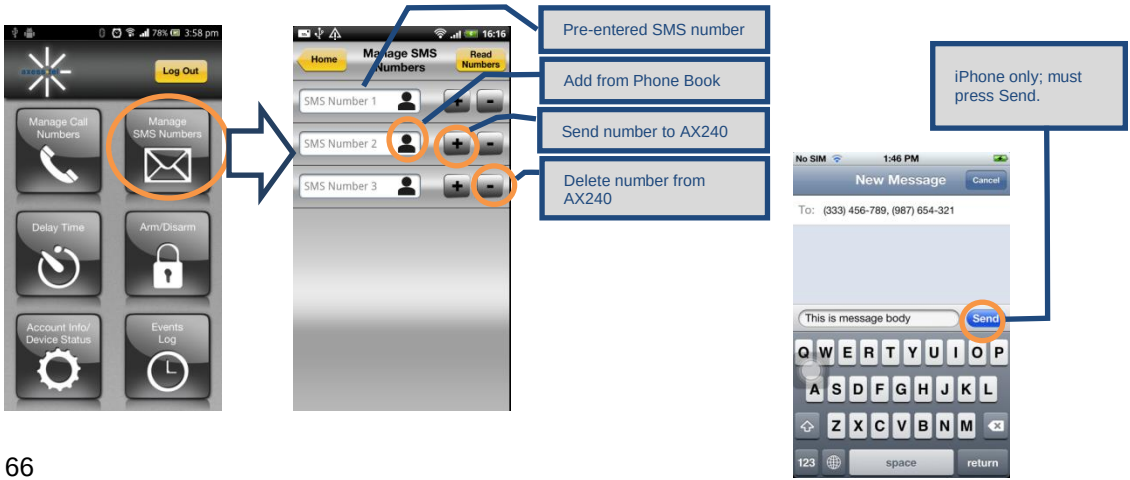

78% 3:58 pm
Log Out
Manage Call Numbers
Manage SMS Numbers
Delay Time
Arm/Disarm
Account Info/ Device Status
Events Log

5.4 Manage Call Numbers (Android/iOS)

Preconditions	1. Phone is powered on 2. The AX240 application has been downloaded 3. The SMS number (of the phone using this App) has already been added in the AX240

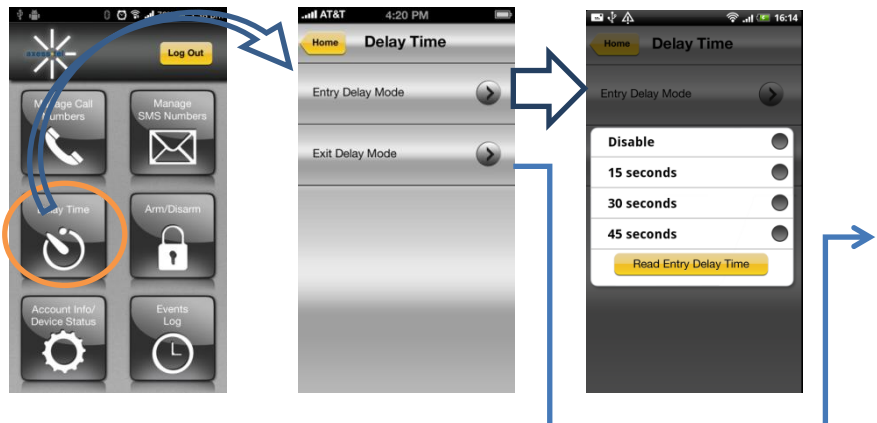
5.5 Manage SMS Numbers(Android/iOS)

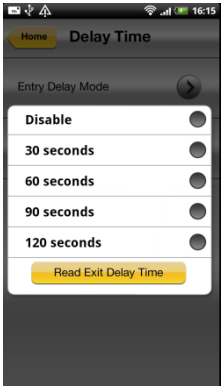
Preconditions	1. Phone is powered on 2. The AX240 application has been downloaded 3. The SMS number (of the phone using this App) has already been added in the AX240

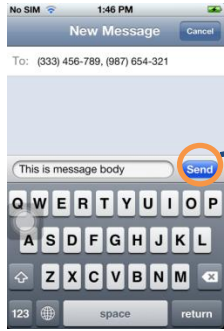


5.6 Delay Time (Entry/Exit)

Preconditions	1. Phone is powered on 2. The AX240 application has been downloaded 3. The SMS number (of the phone using this App) has already been added in the AX240



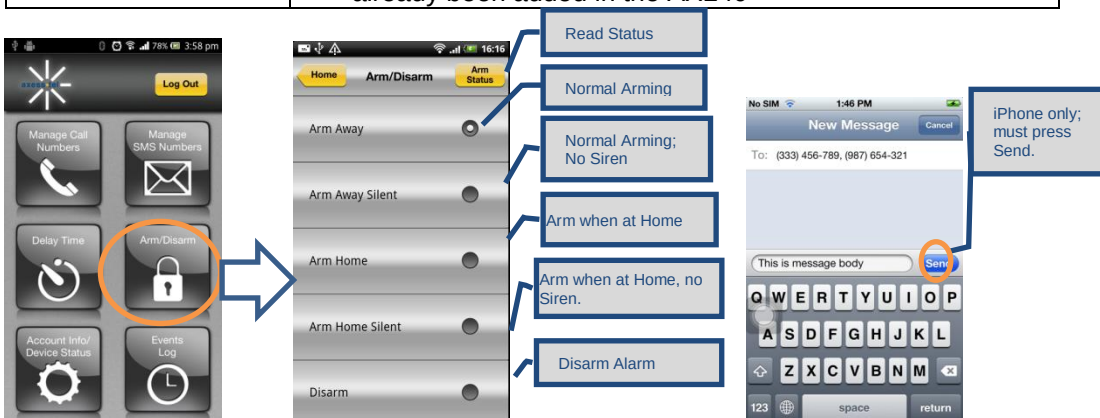




iPhone only; must press Send.

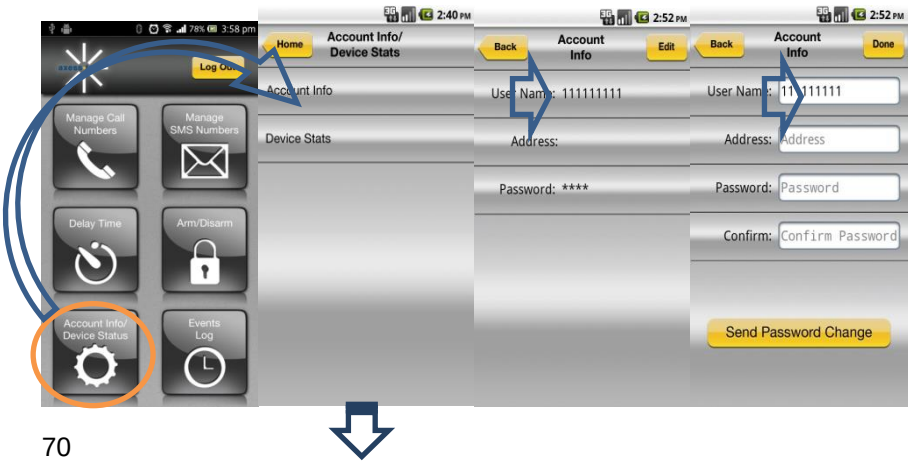
5.7 Remote Arming/Disarming

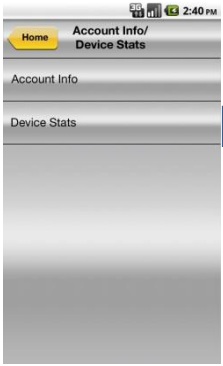
Preconditions	1. Phone is powered on 2. The AX240 application has been downloaded 3. The SMS number (of the phone using this App) has already been added in the AX240



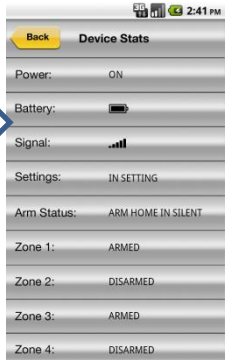
5.8 Account Info/Device Status (Android/iOS)

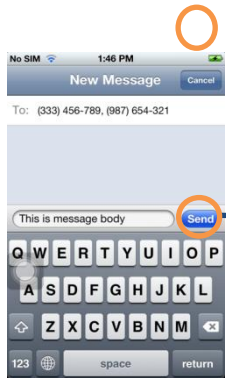
Preconditions	1. Phone is powered on 2. The AX240 application has been downloaded 3. The SMS number (of the phone using this App) has already been added in the AX240





Android

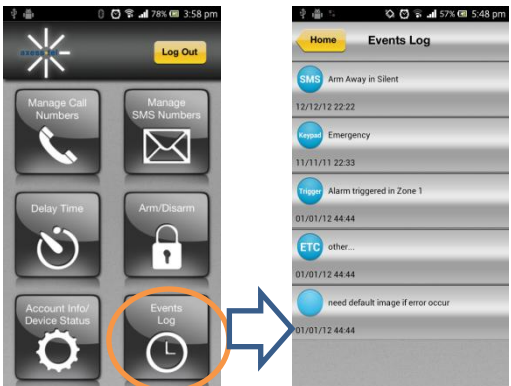




iPhone only; must press Send. Status Displayed in SMS Message box.

5.9 Event Log

Preconditions	1. Phone is powered on 2. The AX240 application has been downloaded 3. The SMS number (of the phone using this App) has already been added in the AX240



Z-Wave

Interoperability with Z-Wave Devices:
Every Z-Wave certified device is designed to work with allother Z-Wave certified devices. The Z-Wave network canintegrate devices of various classes, and these devices canbe made by different manufacturers. The AX140 is a dedicated controller; since it uses the Basic Command Class, it can provide limited control of other Z-Wave devices using this command class.

Wireless range:
This device has an open air line of sight transmission distance of 100 feet which complies with the Z-Wave standards. Performance can varydepending on the amount of objects between Z-Wave devices suchas walls and furniture. Every installed Z-Wave device willact as a signal repeater allowing devices to talk to each other and will findalternate routes/paths, in the case of a reception dead spot.

Radio frequency limitations:
1. Each wall or object (i.e.: refrigerator, bookshelf, large TV, etc) canreduce the maximum range of 65 feet by up to 25 to 30%.

2. Plasterboard and wooden walls block less of the radio signal thenconcrete, brick or tile walls which will have more of an effect onsignal strength.
3. Wall mounted Z-Wave devices will also suffer a loss of range asthey are housed in metal junction boxes which could reduce therange by up to 25 to 30%.

Z-Wave basic terminology:
Include /Exclude: Includeand exclude are the Z-Wave terms used to describe adding,removing or deleting devices to or from the control network.
Replicate: This is the Z-Waveterm for copying or transferringthe Z-Wave network data (all devices) to anew controller. This process isalso used to update secondarycontrollers after changes havebeen made to the controlnetwork with the primarycontroller.

Functional Overview:
This device is based on the Z-Wave Controller Library and works with devices that support the following Z-Wave Device/Command Classes:

Z-Wave device type:
Basic Device Class: BASIC_TYPE_CONTROLLER
Generic Device Class: GENERIC_TYPE_STATIC_CONTROLLER

Specific Device Class: SPECIFIC_TYPE_NOT_USED

Z-Wave Command Class	Controlled	Supported
COMMAND_CLASS_BASIC	NO	YES
COMMAND_CLASS_SENSOR_BINARY	YES	NO
COMMAND_CLASS_VERSION	YES	YES
COMMAND_CLASS_MANUFACTURER_SPECIFIC	YES	YES
COMMAND_CLASS_WAKE_UP	YES	NO
COMMAND_CLASS_ALARM	YES	NO
COMMAND_CLASS_CONTROLLER_REPLICATION	NO	YES

Compatible Devices:
Z-Wave devices may vary; follow the instructions in the *User's Guide* for your specific device when adding and deleting devicesinto the Z-Wave network. Not all features are supported for off-the-shelf Z-Wave devices.

Basic Z-Wave Functions:
Adding 3rd party vendor Z-Wave device; please refer to the instructions for the Z-Wave device that you are installing.

- Inclusion: Add a Z-Wave enabled device
  On AX140 enter the command [✳#→password→75 →Func-Key]; on other Z-Wave device [Press switch to enter inclusion mode (see manufactures instructions for device)]
- Exclusion: Remove a Z-Wave enabled device.
  On AX140 enter the command [✳#→password→70→Func-Key]; on other Z-Wave device [Press switch to enter inclusion mode (see manufactures instructions for device)]

- Association: After inclusion, define the relationship between devices (primary/secondary), by specifying one as primary to control the other secondary device.
  On AX140 enter the command [✳#→password→81→Group ID→Func-Key]; on the other Z-Wave sensor [Click the button in secondary sensor first then in the primarysensor; this will add the primary sensor to secondary sensor association group(see manufactures instructions for device)] If no Group ID is found, user can specify (example “1”).

  To Remove the Association (primary sensor from secondary sensor):
  On AX140 enter the command [✳#→password→82→Group ID→Func-Key].
- Manual Association to the AX140 Controller:
  On AX140 enter the command [✳#→password→83→Group ID→Func-Key]; Click the Z-Wave button on the primary sensor will add it to Controller Association Group.

  To Remove the primary sensor Association Group:
  On AX140 enter the command [✳#→password→84→Group ID→Func-Key]

- Learn Mode: How to make the AX140 become a secondary controller. On AX140 enter the command [✳#→password→85→Func-Key]. Click Z-Wave button on the primary controller.
- Controller Shift: How to go back/shift back to primary controller. On AX140 enter the command [✳#→password→86→Func-Key]. Click Z-Wave button on the secondary controller.

Operating Specifications

1. Base Unit AX240

Item	Description
Air Interface	CDMA2000 1X-Advanced
RF Frequency	800MHz/1900MHz Dual Band
LED	5
Interface	2 RJ-11 Ports (bridged), Max 4 REN
	DC Power Jack
	Power On/Off Button
	TNC Connector for CDMA antenna
Special Features	AGPS for E911 Service
	Automatic Sending Caller ID
	DTMF, Bellcore
Tone	Dial, No Service, Howler, Stutter, Menu OK, Menu NOK
Call Features	Hook Flash, Call Waiting, Call Forwarding, Three-Way Calling
Battery	1600mAh Li-Ion rechargeable
Power adapter	5V/2A

Size	6.8*5.0*1.3 inches (174*128*34 mm)
Weight	9 ounces (255g) (without battery)
Operating Temperature	-13~140°F (-25~+60°C)
Operating Humidity	0% to 95%

2. Alert Panel AZ900

Item	**Description**
CDMA 2000/1XRTT	800/1900 MHz
Size	7.8*4.9*1.5 inches (198*126*38 mm)
Weight	12 ounces (340g)
Antenna	CDMA Dual Band antenna
Z-Wave 908.42MHz	Up to 100 feet line of sight
LED	10
Key	16
SMS numbers	3 phone numbers
CALL numbers	5 phone numbers
Zones	4 zones
Power adapter	5V/2A

Battery	9V
Z-Wave Band Frequency	908.42MHz
RSSI	-102dBm
Operating Temperature	14~122°F (-10~+50°C)
Storage Temperature	-4~158°F (-20~+70°C)
Humidity	0% to 95%

3. Motion Sensor AZ100

Item	**Description**
Detection mode	Passive infrared signal (PIR)
Size	3.3*2.5*1.8 inches (85*65*45 mm)
Weight	2.8 ounces (80g)
Antenna	Build in Z-Wave antenna
Transmit distance	Up to 100 feet line of sight
Detection range	23-39.4 ft. (7-12 m)
LED	Red & Green
Motion sensitivity adjust	3 levels
Tamper switch	Support

Battery	9V
Z-Wave Band Frequency	908.42MHz
RSSI	-102dBm
Working Temperature	32~122°F (0~+50°C)
Storage Temperature	14~176°F (-10~+80°C)
Humidity	0% to 95%

Safety Information

This device complies with Part 15 of the FCC Rules. Its 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.
Note: This product 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

product 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 product does cause harmful interference to radio or television reception, which can be determined by turning the equipment offand 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This device meets the government's requirements for exposure to radio waves.
This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

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