

USER MANUAL

AG50 / AX50 Series

Axess Home Alert

Wireless Alert System



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 Axesstel device 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°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 router can transmit signals that could interfere with this equipment.

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1 Introduction

This user manual will help you place, configure and use your AG50 / AX50 Alert System.

2 Product Overview

The AG50 / AX50 is an easy to install, use and maintain alert system, which 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.

SMS / Call Alerts if the Motion Sensor is Triggered

Notify up to 8 friends and neighbors via call or SMS when motion is detected to increase chances of a close-by responder. You can program up to 3 SMS numbers and 5 call numbers.

Emergency Backup Battery

An AC adaptor with a 9V backup battery provides continued functionality in the event of a power outage.

Remote Control Convenience

The arming and disarming of the AG50 / AX50 Alert System can be triggered by keypad input or by sending an SMS from one of your registered numbers.

Affordable, Easy to Setup, Configure, and Use

A basic SIM card and prepaid / postpaid subscription provides increased peace of mind. To setup the device, you will simply need to insert the SIM card, and ensure network coverage. You are then ready to start using your AG50 / AX50 Alert system.

Easy to use Main Unit

9 LED indicators represent the product status. The unit is also very easy to program and to modify the list of SMS / Call contacts.

3 Using your AG50 / AX50

3.1 Package Contents

- 1x Main Unit
- 2x Motion Sensors with brackets
- 1x Power Adaptor

3.2 Knowing your Main Unit

Your AG50 / AX50 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.

3.3 LEDs

The AG50 / AX50 has 9 LEDs to determine status of the device. The functionality of the LEDs can be found in the table below.

LED	Green	Flashing Green	Red	Off
Power	Device is Turned On	-	-	Device is Off
Battery	Battery power is Full / Medium	-	Battery Power is Low	No Battery is installed
Signal	Registered to the network and signal level is good	Signal is poor	-	No network signal
Setting / Register	In process of setting Alarm	In register status	-	Not in Setting / Registering Mode
Arming / Disarming	-	-	Alarm is Armed	Alarm is Disarmed
Zone 1	Armed	-	Alarm Detected	Disarmed
Zone 2	Armed	-	Alarm Detected	Disarmed
Zone 3	Armed	-	Alarm Detected	Disarmed
Zone 4	Armed	-	Alarm Detected	Disarmed

4 Using your AG50 / AX50

4.1 Battery Installation / SIM Card Installation into Main Unit

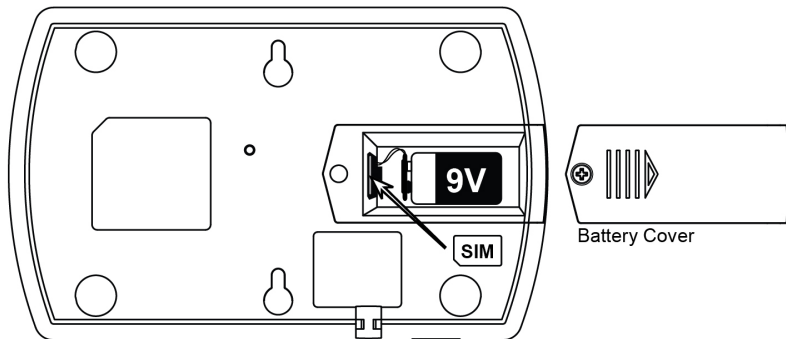
Your AG50 / AX50 main unit will need a SIM card so that it can communicate with the wireless network. It also supports battery backup. Please follow the instructions below to install the SIM card and the 9V battery.

Note: It is advisable to install your SIM card before you install the 9v battery.

4.2 Battery Installation into Motion Sensor

To install the battery into the Motion Sensor please follow the instructions below.

4.1 Battery Installation / SIM Card Installation into Main Unit

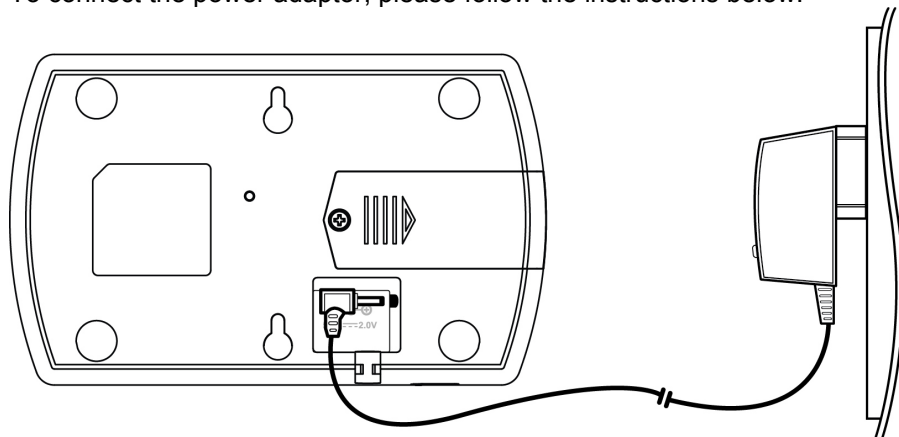


4.2 Battery Installation into Motion Sensor



4.3 Connecting the Power Adaptor

To connect the power adaptor, please follow the instructions below.



4.4 Placement of Main Unit / Motion Sensor

4.4.1 Main Unit

The keypad should be placed near the entry / exit point of the house.

4.4.2 Motion Sensor

Place on shelves or walls to detect motion within 50 meters, great for rooms with lots of windows.

4.5 SIM Card

PLEASE NOTE: THIS SECTION ONLY APPLIES TO DEVICES REQUIRING SIM CARDS FOR OPERATION

Unlocking your SIM card

The SIM card for your device may have a PIN code enabled as default. When you insert the SIM card and power on the unit, if the battery LED flashes green and red, this indicates that your SIM card is locked with a PIN code. To unlock the card please enter the command below

*#→password→07→PIN Code→Func Key

Activate/ Deactivate the PIN Code

To toggle between activating and deactivating the PIN Code, please enter the following on your keypad

*#→password→07-→PIN Code→Func Key

Changing your PIN Code

You may want to change your SIM card PIN code to something more memorable to do this you can enter the command below

#→password→08-→Existing PIN Code→New PIN Code→ Func Key

PUK Code

If you enter an incorrect PIN code 3 times, then you will need to enter your PUK code in order to unlock your device. The battery keypad will flash slowly between green and red. To enter your PUK code please enter the command below

#→password→09-→PUK Code→New PIN Code→ Func Key

4.6 Changing the Default Password

Now that the battery is installed and the power adaptor connected you are ready to use some of the more advanced features of the AG50 / AX50.

To change the default password please follow the instructions below.

Using your keypad please enter the following

#→password→00-→new password→new password→Func Key

**NOTE: IT IS ADVISABLE TO CHANGE YOUR PASSWORD AS SOON AS YOU
CONNECT THE UNIT**

*Default password is 1234. So if you wanted to change your password to 4897, then you would enter the following:

*#1234004897*4897 <Func>

4.7 Adding / Removing Motion Sensors

To add motion sensors to the AG50 / AX50 please follow the instructions below. Up to 64 Motion sensors can be added across 4 zones.

- *#→password→71→Func Key Trigger the sensor that you want to put in zone1
- *#→password→72→Func Key Trigger the sensor that you want to put in zone2
- *#→password→73→Func Key Trigger the sensor that you want to put in zone3
- *#→password→74→Func Key Trigger the sensor that you want to put in zone4

Please note that you need to trigger the desired sensor within 30 seconds so that it registers correctly within the desired zone.

To add additional sensors in your desired zone please repeat the instructions above. You can have up to 16 sensors per zone.

To remove the motion sensors please follow the instructions below.

- *#→password→81→Func Key zone1

*#→password→82→Func Key zone2
*#→password→83→Func Key zone3
*#→password→84→Func Key zone4

Please note that removing sensors will remove all the sensors in the specific zone.

4.8 Adding / Removing SMS Numbers

When your alarm is triggered in any zone, you can choose to send an SMS to up to 3 numbers. To add the SMS numbers into your AG50 / AX50 please follow the instructions below.

#→password→11→SMS Num.1→SMS Num.1→Func Key
#→password→12→SMS Num.2→SMS Num.2→Func Key
#→password→13→SMS Num.3→SMS Num.3→Func Key

Example:

Adding the first SMS number- *#→password→11→1234567890*→1234567890→Func Key

Please note that you have to enter the desired number twice. The number that you entered will need to match. If the numbers do not match then the unit will beep 3 times. If the numbers match then you will hear 2 beeps.

To remove the SMS numbers please enter the details below.

*#→password→20→Func Key Delete all SMS telephone numbers

*#→password→21→Func Key Delete number 1

*#→password→22→Func Key Delete number 2

*#→password→23→Func Key Delete number 3

4.9 Adding / Removing Call Numbers

When your alarm is triggered as well as sending SMS, the AG50 / AX50 will also dial 5 numbers of your choice. It is important to note that as the AG50 / AX50 has no microphone or speaker no conversation will be permissible.

To add numbers please follow the instructions below.

#→password→31→Tel Num.1→Tel Num.1→Func Key

#→password→32→Tel Num.2→Tel Num.2→Func Key

#→password→33→Tel Num.3→Tel Num.3→Func Key

#→password→34→Tel Num.4→Tel Num.4→Func Key

#→password→35→Tel Num.5→Tel Num.5→Func Key

Example:

Adding the first telephone number-

#→password→31→1234567890→1234567890→Func Key

Please note that you have to enter the desired number twice. The number that you entered will need to match. If the numbers do not match then the unit will beep 3 times. If the numbers match then you will hear 2 beeps.

To remove the phone numbers please follow the instructions below.

*#→password→40→Func Key Delete all telephone numbers

*#→password→41→Func Key Delete number 1

*#→password→42→Func Key Delete number 2

*#→password→43→Func Key Delete number 3

*#→password→44→Func Key Delete number 4

*#→password→45→Func Key Delete number 5

4.10 Arming / Disarming the AG50 / AX50

Now that the AG50 / AX50 is installed, the motion sensors have been added, and the SMS / Call numbers have been input you can now start using your AG50 / AX50 as an alert system.

There are three arming modes within the AG50 / AX50, Siren Mode, Silent Mode and Stay Mode. In all modes SMS / Calls will automatically be sent.

4.10.1 Arming the AG50 / AX50

Siren Mode

In Siren mode, when the motion sensors are triggered, it will emit a high pitched continuous beep, until the unit is disarmed. To activate Siren mode enter the following:

*#→password→01->Arming Key

Silent Mode

In Silent mode, when the alarm is triggered the high pitched continuous beep will not sound making the intruder unaware that the alarm has been triggered, although SMS / Calls will be sent. To activate Silent mode enter the following:

*#->password->02->Arming Key

Stay Mode

Occasionally you may want to alarm only a certain part of your house, and this can be achieved by using Stay mode. Please note that only Zone 4 can be excluded when using stay mode.

In Stay mode, you can activate your alarm so that any motion in zones one, two or three will trigger the alarm, but if there is any movement in zone four then the alarm will not be triggered. In Stay mode you can choose whether the device emits a beep or stays silent when the alarm is triggered. To activate Stay mode enter the following:

*#→password→01->Stay Key	Stay Beep Mode
*#->password->02->Stay Key	Stay Silent Mode

Remote Arming

You can also arm the AG50 remotely via SMS. To do this the mobile number that you use will need to be programmed as one of the three SMS numbers. To arm the AG50 / AX50 by SMS you will simply need to send a text message saying 'Arm Alarm' to the number that corresponds to the SIM that is placed in the AG50 / AX50.

4.10.2 Disarming the AG50 / AX50

When disarming the AG50 / AX50, you can disarm in multiple ways, and these are described below.

Normal Disarming

To disarm the AG50 / AX50 in a normal manner enter the following:

*#->password->05->Arming Key Normal disarming

Duress Disarming

If you are forced to disarm the unit under duress, then SMS / Calls will still be made to the numbers that are stored in your device. Disarm under duress by entering the following:

*#→password→03->Arming Key Duress disarming

Remote Disarming

You can also disarm the AG50 remotely via SMS. To do this the mobile number that you use to disarm the AG50 will need to be programmed as one of the three SMS numbers. To disarm the AG50 / AX50 by SMS you will simply need to send a text message saying 'Disarm Alarm' to the number that corresponds to the SIM that is placed in the AG50 / AX50.

4.11 Entry / Exit Delay

You can modify the entry / exit delay to suit your needs.

4.11.1 Entry Delay

No Entry Delay *#→password→50→Func Key
15 Seconds - *#→password→51→Func Key
30 Seconds - *#→password→52→Func Key
45 Seconds - *#→password→53→Func Key

4.11.2 Exit Delay

No Exit Delay *#→password→60→Func Key
30 Seconds - *#→password→61→Func Key
60 Seconds - *#→password→62→Func Key
90 Seconds - *#→password→63→Func Key
120 Seconds - *#→password→64→Func Key

4.12 Panic Button

Your AG50 / AX50 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.

Please note: Once the panic button has been activated it can only be stopped by removing the power adaptor and removing the battery (if installed).

4.13 Factory Reset

If your unit malfunctions or develops any form of software fault then it may be necessary to perform a factory reset. To perform a factory reset please enter the following:

*#→password→90→Func Key

5 Operating Specifications

5.1 Main Unit

<u>Item</u>	<u>Description</u>
Main CPU	M0516LBN
Module	GC864-V2
GSM 900	TX:880-915MHz
	RX:925-960MHz
GSM 1800	TX:1710-1785MHz
	RX:1810-1885MHz
Form Factor	Molex connector 80PIN

Dimension	36.2*30*3.2mm
Antenna	ASK433M Spring antenna
GSM	GSM Dual
433MHZ ASK	100M transmit distance in open road
LED	9
Key	16
SMS number	3 sets phone number
CALL number	5 sets phone number
Zone number	4 zones
Power adapter	5V/2A
Battery	9V
ASK 433Mhz	

Band Frequency	433.82Mhz-434.02Mhz
Carrier spacing	0.2MHz
Maximum output power	4dB
RSSI	< -110dBm
EGSM	
Band Frequency	TX:880-915MHz
	RX:925-960MHz
Carrier spacing	EGSM 200KHz
Maximum frequency error	± 0.1ppm
Maximum output power	2W (33dBm) @EGSM
RSSI	< -106dBm @ EGSM
DCS	

Band Frequency	TX:1710-1785MHz
	RX:1810-1885MHz
Carrier spacing	DCS 200KHz
Maximum frequency error	$\pm 0.1\text{ppm}$
Maximum output power	1W (30dBm) @DCS
RSSI	< -106dBm @DCS
Working Temperature	.-10~+50
Storage Temperature	.-20~+70
Humidity	.- 5% to 95%

5.2 Motion Sensor (AI100)

AP	BS0001
Detection mode	Passive infrared signal
Key	Molex connector 80PIN
Antenna	ASK433M Spring antenna
Transmit distance	100M transmit distance in open road
Detection range	6-8m
LED	Red & Green
Key	Not support
Tamper switch	Support
Battery	9V
ASK 433Mhz	

Band Frequency	433.82Mhz-434.02Mhz
Carrier spacing	0.2MHz
Maximum output power	4dB
RSSI	< -110dBm
Working Temperature	.-10~+50℃
Storage Temperature	.-20~+70℃
Humidity	5% to 95%