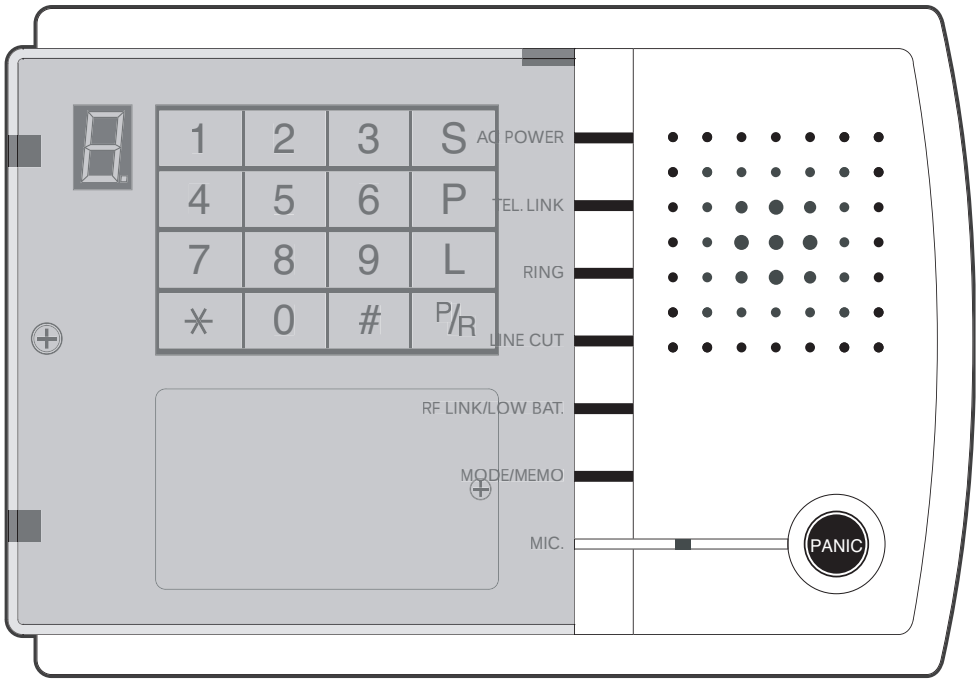
SolarGuard™ SG4000, ES4000

Dial Up Alarm System

USER GUIDE



IMPORTANT: ALWAYS KEEP THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE

TO INSTALL THIS ALARM PLEASE FOLLOW THE STEP BY STEP GUIDE IN PAGE ORDER.

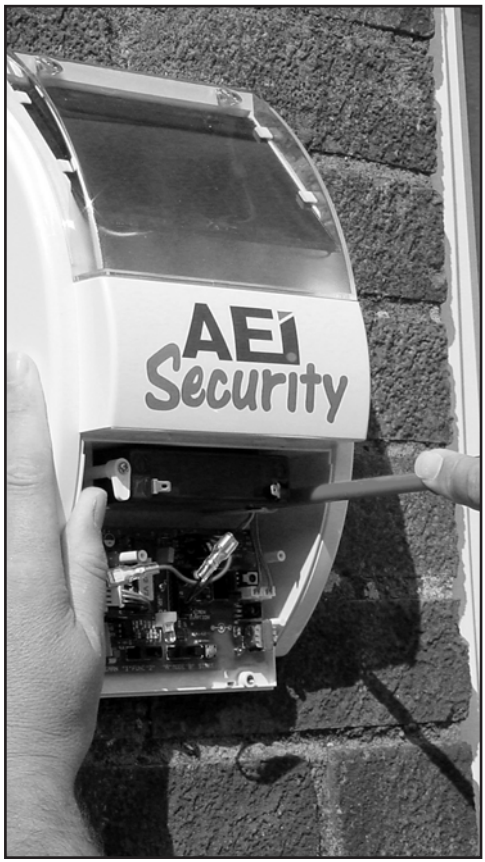
Installation Guide
Table of Contents

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local Authority or retailer for recycling waste

IMPORTANT NOTICE.
PLEASE FOLLOW YOUR POWER TOOLS SAFETY GUIDELINES.
ALWAYS USE AN RCD BREAKER WITH MAINS POWER TOOLS.

Introducing the SG4000 & ES4000

Congratulations in selecting the AEI Security™ Wireless Burglar Alarm System. You have taken a sensible step towards protecting your family and property. The SolarGuard™ console or wired bell box and wireless detectors provide an extremely easy installation and are amazingly simple to operate.



The MU4000 Control Panel is the core to the unique innovation in design of this product. It features a 2 way dial-up system that allows you to set the system to call your mobile or office (4 locations max) when activated. You can also dial-up your system at any time and listen in on your property. There is also a compulsory PIN authorisation procedure that confirms the high level of security this system operates.

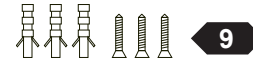
Both the SolarGuard™ and wired Bell Box is fully protected by a tough Polycarbonate UV proof housing. All electronic components are protected with moisture repellent material applied during the manufacturing process to ensure long, reliable, trouble free operation. Two integral front and rear tamper switches give maximum security to the unit. When activated, the bell box sounds a built-in twin siren system at a powerful 115dB's and strobe (optional extra) will flash. The siren duration is selectable from between 1 and 8 minutes. If it's allowed to sound for the full siren duration the strobe will latch and continue for approximately 20 minutes or until the system is disarmed.

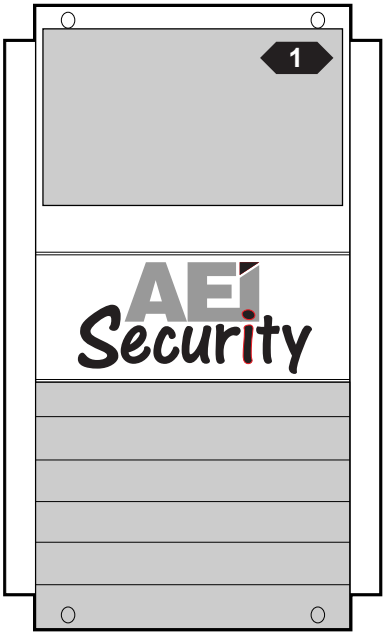
STEP 1
Kit Contents - SG4000

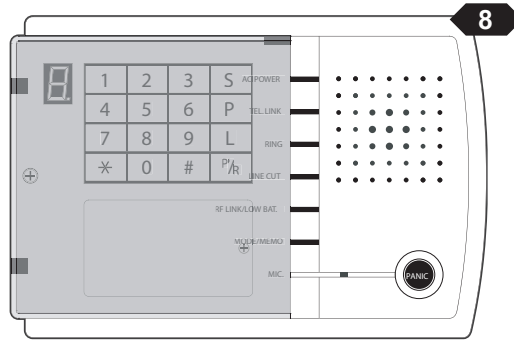
KIT CONTENTS:

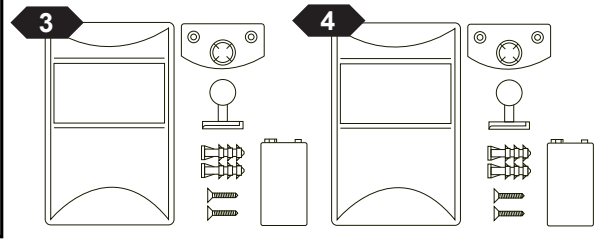
1) SolarGuard™ Bell Box
2) Bell box fixing kit
3) PIR Movement Detector, 9V PP3 Battery, PIR mounting bracket (2 piece), 2xWall Plug, 2xScrew
4) PIR Movement Detector, 9V PP3 Battery, PIR mounting bracket (2 piece), 2xWall Plug, 2xScrew
5) Magnetic Door/Window Transmitter, magnet, 12V Battery, 4xWall Plugs, 4xScrew
6) Remote Control, 12V A23 Battery
7) 6V Sealed Lead Acid Bell Box Backup Battery
8) Dial Up Control Panel with built in transmitter
9) Control Panel Fixing Kit
10) Telephone Line Cable

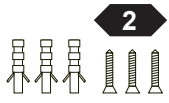
Note: Control panel requires 8.4V PP3 NiCad Battery (Not supplied)

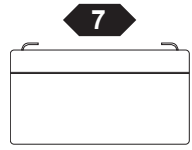


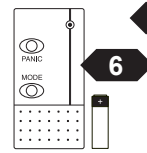


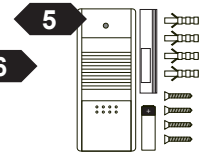










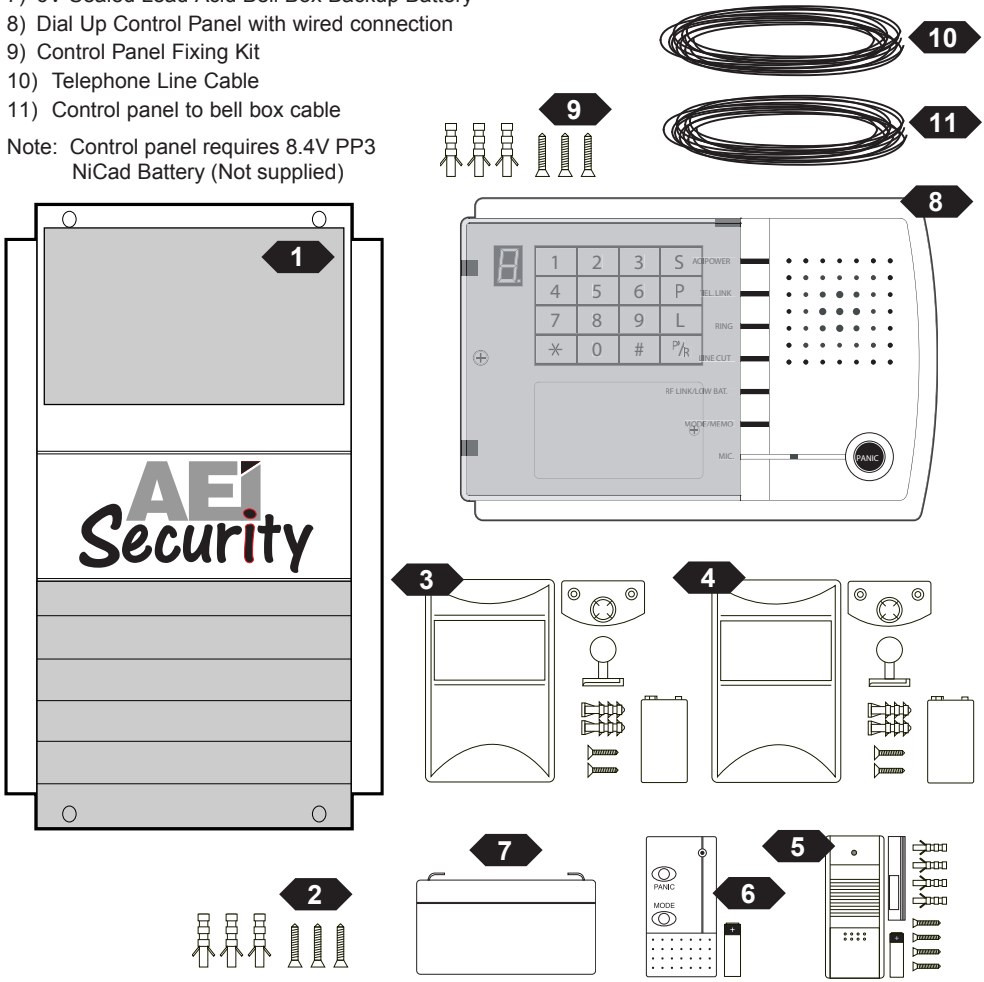


STEP 1
Kit Contents - ES4000

KIT CONTENTS:

1) Wired Bell Box
2) Bell box fixing kit
3) PIR Movement Detector, 9V PP3 Battery, PIR mounting bracket (2 piece), 2xWall Plug, 2xScrew
4) PIR Movement Detector, 9V PP3 Battery, PIR mounting bracket (2 piece), 2xWall Plug, 2xScrew
5) Magnetic Door/Window Transmitter, magnet, 12V Battery, 4xWall Plugs, 4xScrew
6) Remote Control, 12V A23 Battery
7) 6V Sealed Lead Acid Bell Box Backup Battery
8) Dial Up Control Panel with wired connection
9) Control Panel Fixing Kit
10) Telephone Line Cable
11) Control panel to bell box cable

Note: Control panel requires 8.4V PP3 NiCad Battery (Not supplied)



STEP 2
Installing Your Control Panel

Where should I install the control panel?
Ideally, the control panel should be located near the front entry/exit. In this position it is easily accessible on the way in and out.

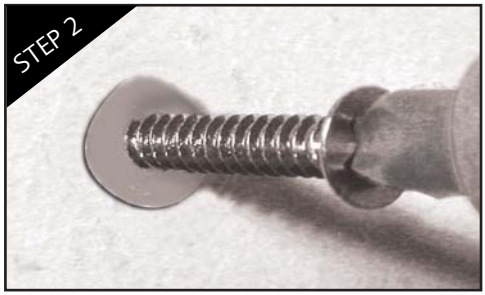
IMPORTANT NOTICE.
PLEASE FOLLOW YOUR POWER TOOLS SAFETY GUIDELINES.
ALWAYS USE AN RCD BREAKER WITH MAINS POWER TOOLS.

STEP 1
Mark out 2 points at a distance of 178mm on the wall.

STEP 2
Drill these 2 holes with a **5mm masonry drill bit.**

STEP 3
Apply the 2 wall plugs supplied into the hole, ensuring that it slots in securely.

STEP 4
Insert the two remaining screws into the wall plugs leaving a 7-9mm gap between the wall plug and the head of the screw.



STEP 5
Using the two pre-drilled holes on the back of the control panel, it should slot over the two screws in the wall. Firmly push the control panel down until it fits securely to the wall.

STEP 6
Apply the power supply and the telephone cord to the points under the control panel.
NOTE: the supplied AA back-up battery is not connected. unscrew the panel at the front to gain access.

ADVICE
WE RECOMMEND TESTING BEFORE FULLY INSTALLING

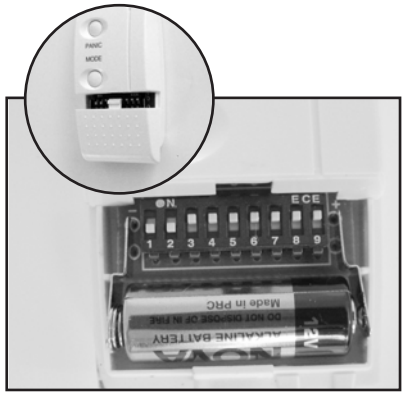
STEP 3
Choosing your site code

What is your site code?
Your site code is a code set by you, which identifies components of your alarm system. It is set by the first 9 switches located in every PIR, magnetic door contact and remote control. *Every device must have the same setting for the system to function correctly.*

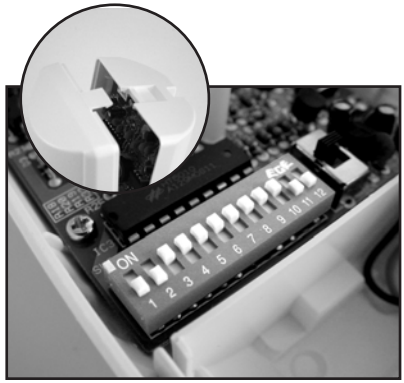
Why have a site code?
The site code is a security feature which stops unauthorized persons disarming your alarm system with a newly purchased remote control. In order for a remote control to operate your alarm - the site code in that remote must be identical to yours.

Do I need to change the site code from its default setting?
No, but we recommend you change the default setting as all of our systems are shipped with the same site code. Changing the code will increase the security offered by your system.

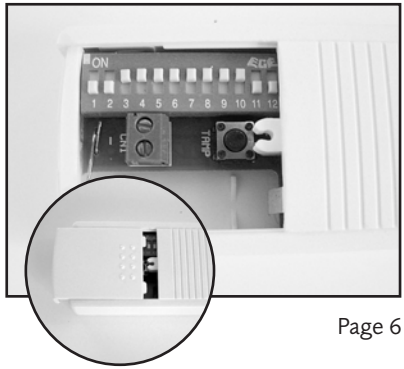
REMOTE CONTROL
This has the 9 switches located under the battery cover on the rear of the device.



PIR DETECTOR
This device has 12 switches in total. Switches 1-9 represent the site code.



MAGNETIC DOOR CONTACT
This device has 12 switches in total. Switches 1-9 represent the site code.

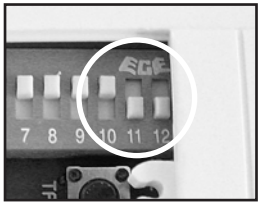


STEP 4
Setting the Zone Codes

What is a Zone Code?
The Zone code sets the desired behavior of a sensor. Every PIR and magnetic door contact has a zone setting.

NOTICE:
You can skip this step if you do not wish to change the default settings of your sensors.
i.e. PIR on Instant/ Walk through and both door contacts set to Entry/Exit mode.

How do I set the Zone Code?
The code is set by modifying switches 10,11 and 12 in your PIT and Remote. Please refer to the table opposite when setting the zone setting.



Key *(page Opposite)*


Disarming Mode


Partial arming mode


Arming Mode

ZONE	10	11	12				Usage
Zone 1	ON	OFF	OFF	NO	YES	YES	Entry/Exit A sensor set to Zone 1 will give you a 20 Second entry/exit delay in this area. *Normally used for magnetic door contacts)*
Zone 2	OFF	ON	OFF	NO	NO	YES	Instant Walk through A sensor set to Zone 2 will give you a 20 second entry/exit delay ONLY if a zone 1 sensor has been triggered first. If not, the sensor will trigger the alarm immediately if set. *Normally used for a PIR in your entrance*
Zone 3	ON	ON	OFF	NO	NO	YES	Instant A sensor on Zone 3 will trigger the alarm immediately if set.
Zone 4	OFF	OFF	ON	NO	YES	YES	Instant A sensor on Zone 4 will trigger the alarm immediately if set.
Zone 5	ON	OFF	ON	NO	YES	**YES**	Instant A sensor on Zone 5 will trigger the alarm immediately if set.
Zone 6	OFF	ON	ON	YES	YES	YES	24 Hour Protection A sensor on Zone 6 will trigger the alarm immediately wether it is set or not. *Normally used for wireless smoke detectors*.

STEP 5
Installing the PIR sensor

What is a PIR sensor?
Your PIR detector is used to detect movement in a large area such as your living room, hallway or similar.
PIR is an acronym for Passive Infra Red.

Where should I install the PIR?
You can install the PIR in any area you wish to protect. We would recommend installing it an area where entry though windows may be possible such as a downstairs living room or hallway. Install it in a top corner of the room, looking into the centre of the room. Do not install above a radiator or facing windows.

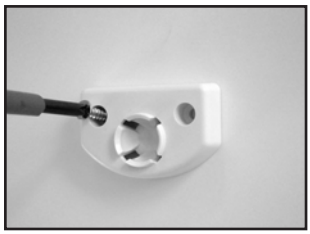
Is it 'pet friendly'?
PIR's detect the movement of warm bodies, so we recommend using this detector in an area where large pets are not present whilst the system is set.

Can I install a PIR in my garage or conservatory?
PIR's are sensitive to temperature change so installing it in a garage/conservatory may cause false alarms.

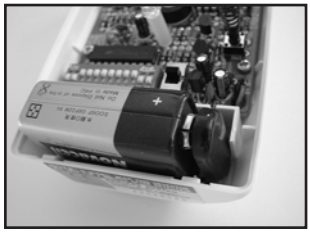
How long does the battery last?
In normal operation, the battery will last between 18 months and 5 years.

ENSURE THAT THE SOLARGUARD CONSOLE IS SET TO BATTERY TEST MODE PRIOR TO INSTALLING THE PIR AND DOOR CONTACTS.
- press mode on your remote control every 2-3 seconds until you hear 6 chirps from your bell box

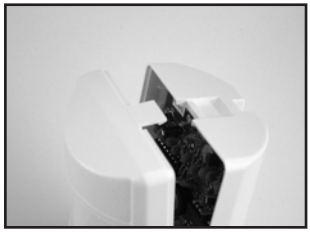
STEP 1
Fix the mounting bracket to the target wall using the supplied wall plugs and screws. Requires 4mm drill bit.



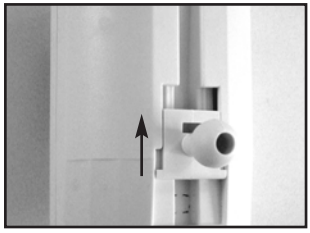
STEP 2
Install the supplied 9V battery into the PIR and set the MODE switch to the 'TEST' position.



STEP 3
Clip both parts of the PIR casing together.



STEP 4
Attach the second part of the mounting bracket to the PIR case by sliding upward.



STEP 5
Mate both parts of the bracket together and direct the PIR into the centre of the room.

Continued...

Keeping your PIR in TEST mode will dramatically reduce the battery life. Therefor we recommend you switch your PIR to NORMAL mode when you have finished your installation and testing the system. This will ensure that the batteries last between 18 months and a 5 years depending on usage.

Help! When I switch to NORMAL mode, the PIR stops working.
A PIR that works in TEST mode, will always work when switched to NORMAL mode. However, please be aware of the following points:

1) **The red indicator light will not function in NORMAL mode.** This is correct, and is designed to increase the battery life.

2) **The PIR will sleep for 4 minutes when movement has been detected.** Whilst sleeping, the PIR will NOT detect movement. After the sleep period the PIR will beginning detecting again.

3) **The PIR will not function with the cover removed.** Please ensure that the cover is fully in place.

Move the mode switch into the down position - marked NORM.

ENSURE THAT THE SOLARGUARD CONSOLE IS SET TO BATTERY TEST MODE PRIOR TO OPENING THE PIR AND DOOR CONTACTS.
- press mode on your remote control every 2-3 seconds until you hear 6 chirps from your bell box

STEP 6
Installing the door contacts

Do I have to use these on doors?
No, your magnetic contacts can also be used to detect the opening of windows and cabinets.

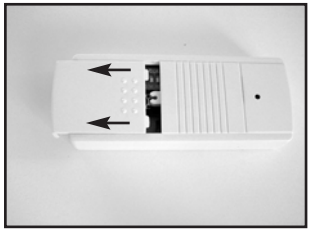
Must the magnet and transmitter be lined up as below?
Yes.

**SOME UPVC DOORS CAN INTERFERE WITH THE OPERATION OF THIS UNIT.
NEVER USE SCREWS TO ATTACH THIS DEVICE TO A UPVC DOOR.**

STEP 1
Remove the magnet cover.

STEP 2
Fix the magnet to the door frame using the supplied screws (wooden door only)

STEP 3
Set your SolarGuard to BATTERY TEST MODE. Open the sliding cover on the transmitter.



STEP 4
Install the A23 battery, ensuring it is in the correct alignment.

STEP 5
Mount the transmitter section to the door using the 2 supplied screws. **Replace the cover.**

STEP 7
Site Code Learning From remote

This function allows the Control Panel to 'learn' the security system site code from the remote. The remote must be set with the master code, and all other detectors must be set with the same site code. It is best to use the factory default setting unless absolutely necessary.

Please note: the remote is the only component in the system for site code learning.

STEP 1
On the Control Panel, enter the [L] Key

STEP 2
Enter your new (or default) PIN [1] [2] [3] [4]

STEP 3
Wait until the LED displays: 

STEP 4
Enter the [#] key *(command code for this function)*

STEP 5
Push any button on the remote

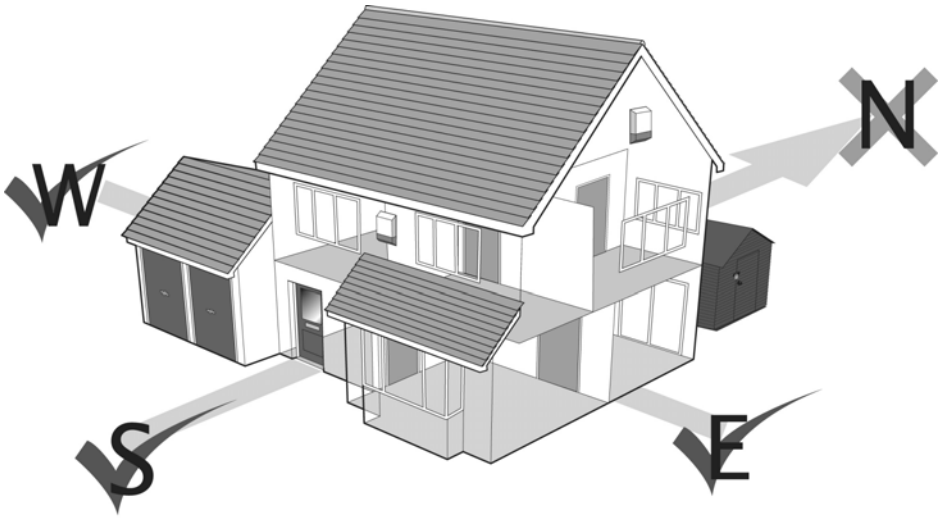
NOTE: One long beep = correct entry / 3 quick beeps = Incorrect entry

Adding Additional PIR's and Remotes

When you are adding additional PIR's or Remotes, they should be set the same as the originally installed item. This can be done by matching the 9 dip switches located at the bottom of the remote, or inside the PIR's

STEP 8A - *SG4000 ONLY* *(see 8B for ES4000)*
Installing the Bell Box

When considering the location of installing your Solarguard Bell Box, think about the area that gets the most amount of sunlight. This page will help you consider the possibilities.



The best position to mount your Solarguard bell box is on a south-facing wall. This is because it is the most likely position to attract the sunlight. Another location is the East and West walls. However, it is most likely that these places are only half as effective. (Only visible to the sun for half a day!)

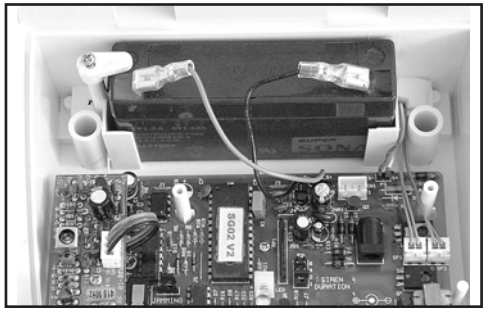
Situations to avoid:

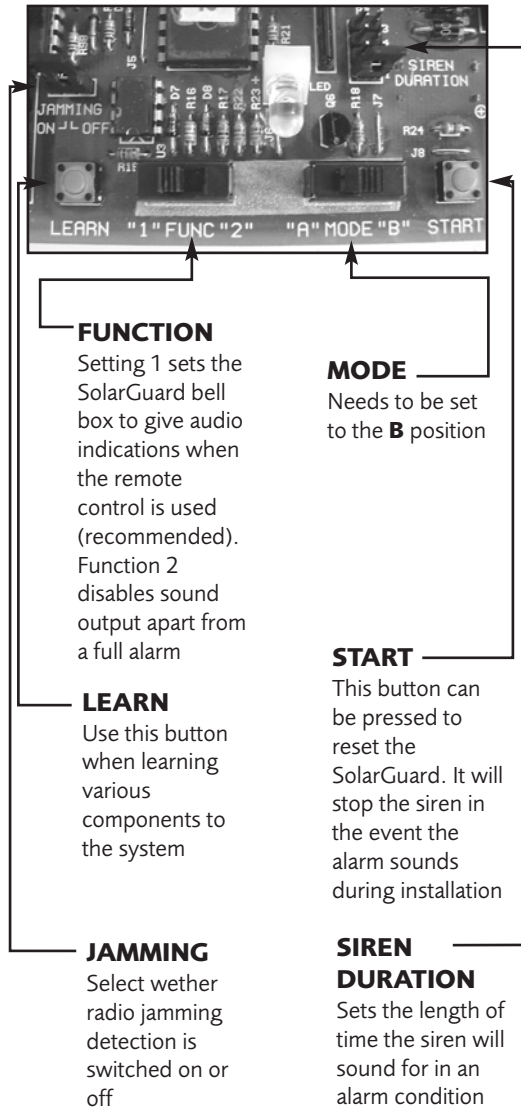
- A complete shaded wall
- Avoid shadows from guttering roof overhangs, fascia boards, neighbouring walls etc.
  (Note: It is best to mount the Bell Box 1 metre below the guttering)
- Avoid placing near metallic objects, i.e. drainpipes, gutters & internal radiators.

Continued...

When you are considering installing the bell box, please ensure that all the settings inside the bell box are exactly to the specifications on the picture to the right. This will ensure that there are no complications.

This can be done by unscrewing the two screws at the bottom of the bell box. Otherwise, it can be checked when adding the battery (see Bell Box installation section)





FUNCTION
Setting 1 sets the SolarGuard bell box to give audio indications when the remote control is used (recommended). Function 2 disables sound output apart from a full alarm

MODE
Needs to be set to the **B** position

LEARN
Use this button when learning various components to the system

START
This button can be pressed to reset the SolarGuard. It will stop the siren in the event the alarm sounds during installation

JAMMING
Select wether radio jamming detection is switched on or off

SIREN DURATION
Sets the length of time the siren will sound for in an alarm condition

Continued...

Where should I install the bell box?
Ideally, the bell box should be located on a south facing wall in position where it will receive a good level of sunlight. If this is not possible then an east or west facing wall with good sunlight should be acceptable.

**IMPORTANT NOTICE.
PLEASE FOLLOW YOUR POWER TOOLS SAFETY GUIDELINES.
ALWAYS USE AN RCD BREAKER WITH MAINS POWER TOOLS.**

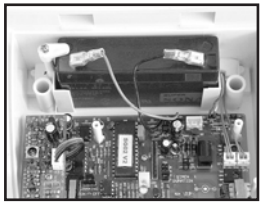
STEP 1
Following the supplied *"MAIN UNIT FIXING HOLE TEMPLATE"*, drill 3 holes using a **5mm Masonry bit**. Insert the supplied 3 x Plastic Wall Plugs into the holes.

STEP 2
Insert the top screw and hang the SolarGuard bell box on the wall.

STEP 3
Remove the blue cover by removing the screws located on either side.

STEP 4
Insert the two remaining screws into the holes on either side of the SolarGuard circuit board.

STEP 5
Insert the supplied 6V Sealed lead acid battery and connect battery terminals. Ensure that red is connected to positive on the battery, and black is connected to negative on the battery.



NOTE:

The Solarguard bell box contains some switches which are not used with this alarm system. The only switch that is important is the MODE switch that must be in position B to work with this system. There is also a jack plug socket on the PCB just above the START switch that can be used to plug in a power supply to give the battery a boost charge. (Please note the polarity on the board)

PRO's TIP!
To avoid false triggering caused by the rear tamper switch not making good contact with the wall, place a piece of lino or plastic behind the rear tamper switch to create a flat surface flush with the bell box.

STEP 8B - *ES4000 ONLY* *(see 8A for SG4000)*
Installing the Bell Box

STEP 1
Following the supplied *"MAIN UNIT FIXING HOLE TEMPLATE"*, drill 3 holes using a **5mm Masonry bit**. Insert the supplied 3 x Plastic Wall Plugs into the holes.

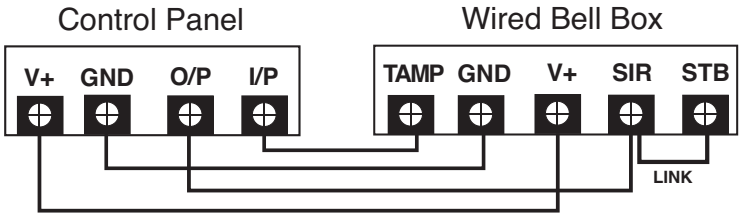
STEP 2
Insert the top screw and hang the wired bell box on the wall.

STEP 3
Remove the blue cover by removing the screws located on either side.

STEP 4
Insert the two remaining screws into the holes on either side of the wired bell box circuit board.

STEP 5
Insert the supplied 6V Sealed lead acid battery and connect battery terminals. Ensure that red is connected to positive and the black is connected to negative on the battery.

STEP 6
Wire up the control panel to the Wired bell box using the diagram below.



STEP 9 - *SG4000 ONLY* *(not required for ES4000)*
Learning the Control Panel code to the Bell Box

NOTE:
It is best to unplug the telephone line so that the control panel won't dial out!

The SG4000 Control Panel needs to learn the security code from the Wireless bell box before they can communicate.

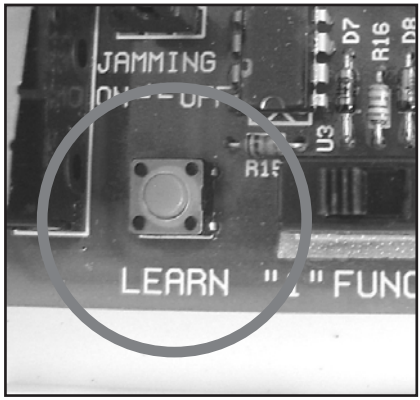
STEP 1:
Remove the blue cover on the front of the wireless bell box. This is held in place by 2 screws on the lower edge.
(note: If you are testing the system before installing, keep the bell box at least 2-3m away from the control panel)

STEP 2:
Install the 6V lead acid battery and ensure that the MODE switch is in position 'B'.

STEP 3:
Press the PANIC button on the control panel. The control panel built in siren will sound.

STEP 4:
After 15 seconds, Disarm using your PIN *(Default: 1234)* followed quickly by the learn button on the bell box.

STEP 5:
The LED on the wireless bell box will illuminate and the bell box should emit 2 bleeps to indicate that the system has learned.



STEP 6:
The wireless Bell Box may sound once learning is successful. If this happens, then let the alarm sound for 10 seconds, then disable it at the control panel. The 10 second delay is important to ensure that the panel will have completed its transmission. Otherwise, it may not disarm the Bell Box. If this happens, press the panic button again, and wait for 15 seconds before disarming the system.

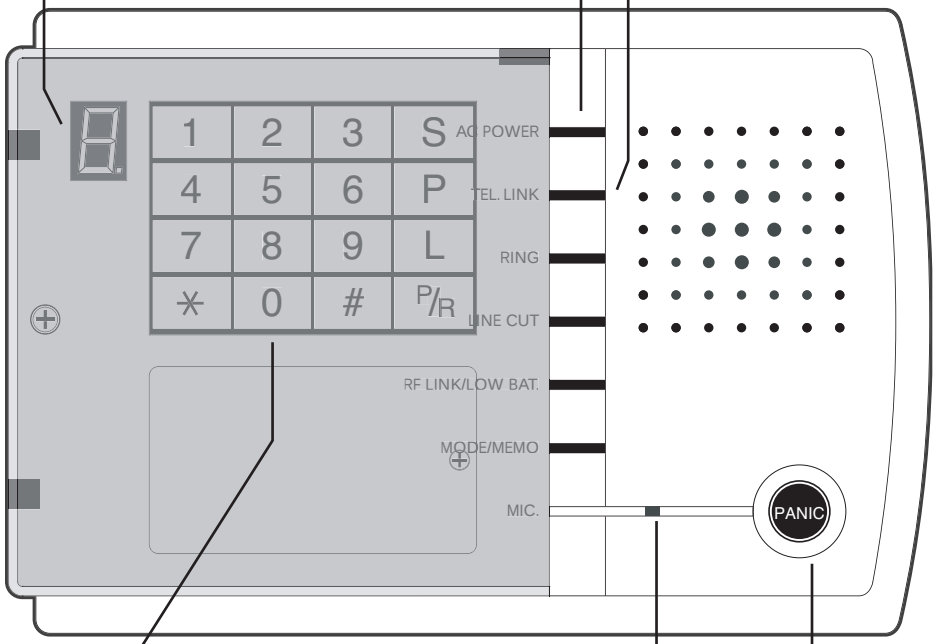
Control Panel

Introduction to the different areas of the control Panel.

LED display panel
Use this for programming and various displays

AC Power
Steady light when the power is normal.

Telephone Link
steady light when telephone line is linking



Keypad
This is the input section for the Solarguard. It is where the arming/disarming & programming takes place.

Internal Mic
Records what is happening when the alarm has been triggered. Used for the remote call-in feature.

Panic Button
Used in a distressed situation

Control Panel

What the LED indicators show

The table below shows the light/flash representation of each LED indicator on the control panel, depending upon the status of the system.

LED Indicator	Light/Flash Representation
AC POWER	• Steady light when the power is normal
TEL LINK	• Steady light when the telephone line is linking
RING	• Flashes when there is an incoming call
LINE CUT	• Steady light when the telephone line is cut
RF LINK	• Flashes when receiving signals from sensors/ detectors/transmitters • Slow flashes represent Low battery of sensor/detector
MODE/MEMO	• Steady light when keypad is in operation • Flashes twice per second when system is in Full Arming mode • Flashes once per second when system is in Partial arming mode • LED off when system is in Disarming mode • Flashes once per 2 seconds when system is in testing mode

Day to Day Operation

How to operate your alarm system

Operating the Wireless Alarm System is a pleasure, thanks to the remote and the user-friendly operating procedures. Some functions can be operated utilising the remote, keypad on the Control Panel, or from anywhere in the world via the intuative remote call-in feature which allows users to operate the system from any telephone. The following operation instructions will help you to fully benefit from the many features and functions of the Wireless Alarm System which will help you on a daily basis.

NOTE: If you pause while entering a programming sequence, the unit may not accept it. If this occurs, enter the sequence again.

Enter Full Arming Mode

This function is used to arm the entire system (all zones) and all sensors/detectors. It is best to use Full Arming Mode whenever leaving the premises.

Using remote:

STEP 1

Press the MODE button

STEP 2

Within a few seconds you will hear one chirp as a confirmation, and a setting is accomplished.

Using the Keypad on the Control Panel:

STEP 1

Enter the (S) key then enter your (new or default) PIN (1)(2)(3)(4)

STEP 2

Wait until the LED displays: 

STEP 3

Enter the (1) key *(Command Code for this function)*

STEP 4

Within a few seconds after the confirmation tone you will hear a beep, & the setting is complete

Day to Day Operation

Continued...

Enter Partial Arming Mode

This function is to arm only the perimeters of the system. (Zones 2 & 3 are disabled). It is best to use Partial Arming mode as an 'At-Home' security mode whenever remaining on the premises. This allows you to roam within your alarmed premises (home, office, etc.) without activating the PIR Motion Detectors, while the perimeters (doors, windows, etc.) will remained armed.

STEP 1
Enter the  key

STEP 2
Enter your (new or default) PIN 

STEP 2
Wait until the LED displays: 

STEP 3
Enter the  key *(Command Code for this function)*

STEP 4
Within a few seconds after the confirmation tone you will hear a beep, & the setting is complete

NOTE: When entering Full arming & Partial Arming modes, the unit will emit countdown beeps after the confirmation tone.

Day to Day Operation

Continued...

How to Disarm

This function is used to disarm the entire system (all Zones) and all sensors/detectors.

Using remote:

STEP 1

Press the **MODE** button

STEP 2

Within a few seconds you will hear three chirps as a confirmation, and a setting is accomplished.

Using the Keypad on the Control Panel:

STEP 1

Enter the  key

STEP 2

Enter your (new or default) PIN 

STEP 2

Wait until the LED displays: 

STEP 3

Enter the  key *(Command Code for this function)*

STEP 4

Within a few seconds after the confirmation tone you will hear three beeps, & the setting is complete.

Day to Day Operation

Continued...

Enter Emergency/Panic Alarm

This function is used to activate the alarm during an on-site emergency or panic situation

Using remote:

STEP 1

Press the **PANIC** button

STEP 2

The system will immediately activate the alarm, sound the siren and immediately begin dialing the programmed phone numbers.

Using the Keypad on the Control Panel:

STEP 1

Press the **PANIC** button on the control panel

STEP 2

The system will immediately activate the alarm, sound the siren and immediately begin dialing the programmed phone numbers.

NOTE: This button can also be used to enter a 2-way speakerphone call during an incoming phone call (Never to be used for outgoing phone calls)

Day to Day Operation

Continued...

Respond During an Alarm Notification Call

This function is used for call recipients to respond to an alarm notification call. Call recipients will have the option to monitor/listen in (via built-in microphone on Control Panel), speak (via built in 2-way speakerphone feature), have the system hang up and dial the next programmed phone number, have the system stop dialling all programmed phone numbers, or replay the alarm notification message. This can be accomplished by pressing specified keys on any telephone keypad, from anywhere in the world.

Upon alarm activation, the auto-dialer will call out to each of the programmed phone numbers and play the Alarm Notification Message (as recorded by user). The call recipients procedure and options are as follows:

1) Answer the call, then wait for the pre-recorded Alarm Notification Message to finish,
2) Within 10 Seconds after you hear the confirmation tone, press a key for the desired function:

- Press 4 to monitor or listen in
- Press 5 to Speak via 2-way Speakerphone
- Press 6 to have system hang up and dial the next programmed phone number
- Press 7 to replay the Alarm Notification message
- Press 8 to have system stop dialling all programmed phone numbers and disconnect call.

Low Battery Notification

When one of the sensors/transmitters in the system has a low battery, the control panel will beep (one beep per 3 seconds) to remind the user, and the RF LINK/LOW BAT LED will flash.

To check the zone of the sensor/transmitter with a low battery, press the  key. The LED will display the zone number that the sensor operates on.

Day to Day Operation

Continued...

Remote Access from Any Outside Telephone

This function is allows users to call in from anywhere in the world to access the system. Users calling in will have the ability to enter the system into Full Arming Mode or Disarming mode, as well as monitor/listen in (via built-in microphone on control panel) or speak (via built-in 2-way speakerphone feature). This can all be accomplished by pressing specified keys on any keypad, while calling in from anywhere in the world.

The user must call into the system, and the system should pick up in certain amount of rings as specified by the Remote call-in ring cycle. The caller's procedure and options are as follows:

1) Call the phone number that is connected to the control panel
2) Wait for the system to answer in correct amount of rings (as specified while programming remote call-in ring cycle)
3) When you hear the confirmation tone, enter your new (or default) PIN
4) Within 10 seconds after you hear the confirmation tone, press a key for the desired function as follows.

- Press 1 to Enter full arming mode (Confirmation = 1 beep)
- Press 0 to Enter Disarming mode (Confirmation = three beeps)
- Press # to Enter Partial Arming Mode (confirmation = two beeps)
- Press 4 to monitor/listen in (Confirmation = one long beep)
- Press 5 to Speak via 2-way speakerphone (Confirmation = one long beep)
- Press 8 to Speak via 2-way speakerphone (Confirmation = one long beep)

Alarm Activation Memory

This feature records the last zone that was activated during an alarm activation. When disarming the system after any Alarm activation, the control panel will beep (one beep per second) to remind the user that an alarm has been activated, and the MODE/MEMO LED lights steady.

- To shut off the warning beeps, push any key on the keypad.

Day to Day Operation

Continued...

- To check the last zone activated, press the (#) key. The LED will display the last activated zone as follows:

Digit  = Zone 1

Digit  = Zone 2

Digit  = Zone 3

Digit  = Zone 4

Digit  = Zone 5

Digit  = Zone 6

Digit  = Tamper or Panic from wireless accessories

Digit  = Panic button or tamper on control panel was activated

To clear the alarm Activation Memory, follow the steps below:

STEP 1
Enter the (S) key

STEP 2
Enter your (new or default) PIN (1)(2)(3)(4)

STEP 2
Wait until the LED displays: 

STEP 3
Enter the (0) key *(Command Code for this function)*

STEP 4
Within a few seconds after the confirmation tone you will hear three beeps, & the setting is complete.

STEP 5
The LED will display  to confirm the programming is successful

System Programming Introduction Guide (step by step)

The SolarGuard™ SG4000 has the option of being programmed to suit the environment. This simple step-by-step teaches you how to configure your current default settings.

Most programming is configured using the keypad on the control panel. To confirm whether these changes were correct or incorrect, the control panel will make a tone.

The confirmation tones are as follows, unless otherwise specified:

- One long beep = Correct & entered (may be followed by 3 beeps)
- Three quick beeps = Incorrect and must be re-entered

Basic programming (introduction to all sequences)

STEP 1
Programming begins by entering a function key

STEP 2
Then enter your PIN into the numbered keypad (Default 1,2,3,4)

STEP 3
then after waiting a few seconds, the proper function display will show on the screen

STEP 4
Enter the specific programming options as stated in each step.

STEP 5
Then wait for the LED display to turn OFF, followed by quick 3 beeps.

STEP 6
Proceed to the next programming step as desired

System Programming

Intelligent Storing Capability

The control panel utilises Intelligent Storing Capability to store programming information. Once you have entered the programming data for any function, the control panel will automatically store the data within a few seconds. There is no need to press 'store' or 'enter' to save it. Once programmed, the information will be stored, even during power-loss!

NOTE: If you pause while entering a programming sequence, the unit may not accept it. If this occurs, enter the sequence again.

How to Change the User Code (PIN) *Default: 1234*

The default User PIN is 1,2,3,4, and can be changed if necessary. To change the PIN, follow the steps below.

STEP 1
Enter the  key

STEP 2
Enter the default PIN 

STEP 3
Wait until the LED displays: 

STEP 4
Enter the  key

STEP 6
Enter your new 4-digit PIN

STEP 7
Within a few seconds you will hear a confirmation tone. This confirms that the information has been stored.

NOTE: One long beep = Correct entry / 3 quick beeps = Incorrect entry

System Programming

Continued...

How to manually reset back to Factory Settings

If you want to reset the system to original factory defaults, follow the procedure below.

WARNING (This procedure resets PIN and all programming functions)

STEP 1
Unplug the Power Adapter and remove the Rechargeable Backup Battery(s)

STEP 2
Press and hold the (#) & (*) keys at the same time

STEP 3
While holding the keys down, plug the Power Adapter back in

STEP 4
After one second, the unit will beep to confirm that the system have been reset back to factory settings

WARNING (This procedure resets PIN and all programming functions)

Program Zone 1 Entry/Exit Delay Time

Default: 20 seconds

This function is for users to enter the zone 1/2 entry/exit delay time during Full arming or Partial Arming mode.

STEP 1
Enter the (P) key

STEP 2
Enter your new (or default) PIN (1) (2) (3) (4)

STEP 3
Wait until the LED displays: 

STEP 4
Enter the (8) key *(command code for this function)*

System Programming

Continued...

STEP 5
Enter a single digit between 0-9 depending on the amount of delay time you desire.
(This number will automatically be multiplied by 10 for the actual time in seconds)

for example...

 = 10 Seconds

 = 40 Seconds

 = 90 Seconds

Within a few seconds you will hear a confirmation tone. This confirms that the information has been stored.

NOTE: One long beep = correct entry / 3 quick beeps = Incorrect entry

Program Alarm/Siren Duration

Default: 4 Minutes

This programming function is for users to set up the length of time the alarm (siren) will make a noise upon activation. It can be programmed between 0-18 minutes.

STEP 1
Enter the P key

STEP 2
Enter your new (or default) PIN 1 2 3 4

STEP 3
Wait until the LED displays: 

STEP 4
Enter the 9 key *(command code for this function)*

STEP 5
Enter a single digit between 0-9 depending on the time you require the alarm to sound.
(This number will automatically be multiplied by 2 for the actual time in minutes)

for example...

1 = 2 Minutes

4 = 8 Minutes

9 = 18 Minutes

System Programming

Continued...

STEP 6
Within a few seconds you will hear a confirmation tone. This confirms that the information has been stored.

NOTE: One long beep = correct entry / 3 quick beeps = Incorrect entry

Program Built In Siren

Default: On

This function allows users to turn on/off the built in siren in the event of an alarm situation.

STEP 1
Enter the  key

STEP 2
Enter your new (or default) PIN 

STEP 3
Wait until the LED displays: 

STEP 4
Enter the  key to turn sound 'OFF', or enter the  key to turn siren 'ON'.

STEP 5

Within a few seconds you will hear a confirmation tone. This confirms that the information has been stored.

NOTE: One long beep = Correct entry / 3 quick beeps = Incorrect entry

Site Code Learning From remote

This function allows the Control Panel to 'learn' the security system site code. The remote must be set with the master code, and all other detectors must be set with the same site code. It is best to use the factory default setting unless absolutely necessary.

Please note: the remote is the only component in the system for site code learning.
This stage would have been completed earlier in this manual. This is just for reference.

System Programming

Continued…

STEP 1
Enter the L Key

STEP 2
Enter your new (or default) PIN 1 2 3 4

STEP 3
Wait until the LED displays: 

STEP 4
Enter the # key *(command code for this function)*

STEP 5
Push any button on the remote

NOTE: One long beep = correct entry / 3 quick beeps = Incorrect entry

Program Door Chime Function

Default: ON

This function allows the door chime sound to be turned On or Off while entering or exiting during disarming mode *(ALARM OFF MODE)*,

STEP 1
Enter the S key

STEP 2
Enter your new (or default) PIN 1 2 3 4

STEP 3
Wait until the LED displays: 

STEP 4
Enter the 4 key to turn door chime OFF, or enter the 5 key to turn door chime ON

STEP 5

Within a few seconds you will hear a confirmation tone. This confirms that the information has been stored.

NOTE: One long beep = correct entry / 3 quick beeps = Incorrect entry

System Programming
Auto-Dialer Functions

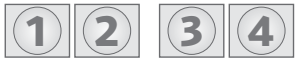
Program Auto-Dialer Telephone Numbers

This function allows up to six numbers to be entered into the Auto-dialer. Each of which will be called in sequence in the event of an alarm activation.

NOTE: It is recommended to have the Auto-dialer call out to other users, family members, neighbours etc.

DO NOT program the alarm system to call the emergency services!

STEP 1
Enter the  key

STEP 2
Enter your new (or default) PIN 

STEP 3
Wait until the LED displays: 

STEP 4
Enter the '1' key to program the first number to be dialed (1-6). *To enter the second number into the program, simply add the number '2' in the sequence above instead of 1.* 

STEP 5
Enter the phone number of choice. Only 16 digits are currently authorised and accepted.

If you require calling through an extension to an outside line, for example 9, the system can add a pause to do this feature.
Simply by adding the 'star' key a 2 second pause will be included 

for example:

9 ✱ 01424123456 would dial 9, pause for 2 seconds, then dial the next number (area code followed by the number).

System Programming

Auto-Dialer functions *Continued...*

Program Automatic Dialing Codes

Default: 2 Cycles

This function is for users to program the amount of times the system will dial the entire sequence of programmed phone numbers.

The factory default is set up for 2 cycles. you can program it to run up to 9 times

STEP 1
Enter the 'P' key 

STEP 2
Enter your new (or default) PIN 

STEP 3
Wait until the LED displays: 

STEP 4
Enter the '7' key. *(command code for this function)* 

STEP 5
Enter a single digit between 0-9 depending of cycles you desire

NOTE: Within a few seconds, you will hear a confirmation tone,
One long beep = correct entry / 3 quick beeps = Incorrect entry

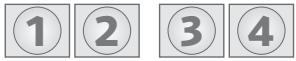
Program Remote Call-In Ring Cycle

Default: 6 Rings

This function is for users to program the amount of rings the system picks up during a remote call in.

(calling into the system from any location to arm, disarm, monitor or speak) This can be programmed up to 9 rings.

STEP 1
Enter the 'P' key 

STEP 2
Enter your new (or default) PIN 

STEP 3
Wait until the LED displays: 

STEP 4
Enter the '0' key. *(command code for this function)* 

STEP 5
Enter a single digit between 0-9 depending of cycles you desire *'0' turns Call -In feature OFF*

NOTE: Within a few seconds, you will hear a confirmation tone,
One long beep = correct entry / 3 quick beeps = Incorrect entry

System Programming

Auto-Dialer functions *Continued...*

Record Alarm Notification Message

This function is for users to record Alarm Notification Message that will play during an Alarm Notification Call. The total recording time is 20 Seconds.

It is best to use this message to notify that there has been an alarm activation, and also to specify exactly how the call recipient can respond (listen in, monitor, speak, control auto-dialing or reply message).
The following script can be used as a guide on how to word your message.

NOTE: Make sure you speak clearly and steadily. keep in mind that you only have 20 seconds of recording time.

"This is (your name). An alarm has been activated at (address). After the tone, press 4 to listen, 5 to speak, 6 to dial next number, 7 to replay this message, & 8 to stop dialling and disconnect."

STEP 1
Enter the 

key

STEP 2
Enter your new (or default) PIN 

STEP 3
Wait until the LED displays 

STEP 4
Enter the '#' key. *(command code for this function)* 

STEP 5
Begin recording this message for up to 20 seconds

STEP 6
At the end of the 20 seconds, you will hear a confirmation tone which will show that the message has been stored (One long beep = correct entry / Three quick beeps= incorrect entry and must be re-entered).

NOTE: To replay a message, repeat steps 1,2, and 3, then enter 

to hear the message.

System Programming

Auto-Dialer functions *Continued...*

Check Programmed Settings

This function is used to check the programmed settings. These are one-key operations utilising the LED to display the current setting.

TO CHECK **STORED TELEPHONE NUMBERS**

Press any of the 1 - 6 keys and the LED will display the current setting.

TO CHECK **AUTOMATED DIALING CYCLES**

Press any of the 7 key and the LED will display the stored amount of cycles.

TO CHECK **ENTRY/EXIT DELAY TIME**

Press the 8 key and the LED will display the amount of seconds

TO CHECK **ALARM SIREN DURATION**

Press the 9 key and the LED will display the amount in minutes

TO CHECK **Remote Call-In Ring Cycle**

Press the 0 keys and the LED will display the number of ring cycles

TO CHECK **LAST ACTIVATED ZONE**

Press the # key and the LED will display the last zone activated from memory

TO CHECK **LOW BATTERY STATUS**

Press the * key and the LED will display the zone in which there is a sensor or detector with a low battery.

Expanding Your System with Additional Wireless Accessories

Here we have a selection of extra items to improve your SG4000 Solarguard Alarm system. They are all available by contacting our sales team with the address & phone number at the back of this manual. *(Use the product code listed with the images).*

Magnetic Door/Window Contact
Protect additional doors and windows.
PART: *MT01-434*

Remote Control
Give additional family members remote controls for your alarm.
PART: *RM01-434*

PIR Movement Detector
Protect additional areas around your home.
PART: *IR02-434*

Strobe Upgrade
Adds a bright flashing light when the alarm is sounding. High brightness Xenon tube.
PART: *ST01*

Smoke Detector
Protect your home and family against fire.
PART: *SD01-434*

SolarGuard™ Dummy Bell Box
Adds an additional low cost visual deterrent to your alarm system.
PART: *SG1100-434*

Range Extender
For protecting remote areas in your home.
PART: *ET01-434*

HELP!
Frequently asked questions

Q: Can I give additional remote controls to family members/friends etc.?
A: Yes - use part number RM01 (see opposite)
Q: In disarm (UNSET) mode, the alarm sounds when I walk in front of a sensor!
A: You must check the zone settings for the sensor that is activating the alarm. It should be set to zone 1,2, 3, 4, or 5 for standard operation.
Q: The SolarGuard battery is completely discharged!
A: You can use the quick charge socket in the SolarGuard with a standard AC or DC 12V mains adapter. This will charge the battery faster than sunlight.
Q: The LED in the PIR detector does not light up!
A: In NORMAL mode, the light will not come on when movement is detected.
Q: I have a sensor which appears to be out of range of the SolarGuard. How can I use it in my system?
A: Use the range extender ET01-434 in conjunction with your sensor.
Q: How many detectors can be added to the system?
A: As many as you like provided they are situated within radio range of the control panel.

NEED MORE HELP?

check out our website: **www.aeisecurity.com**

Alternatively,

you can contact our support department by the following means:

email: support@aeisecurity.com
telephone(UK): 0845 1667940
telephone(Intnl): + 44 1797 226122

INFORMATION

This page is a section where you can fill out your specific information of you SG4000 Alarm system.

Site Code

The bottom page shows the Site Code if you wish to change it from default (see 'site code' section)

ON									
OFF									

Zone Codes

This top box is where you can illustrate the information concerning the zone codes.
for example, Zone 1 = Door Contact (Front door)

Zone	Item / Location
1	
2	
3	
4	
5	
6	

Changing Detector Batteries and Log

Enter Test/Battery Change Mode
This function is used to test the entire system (all Zones) and all sensors/detectors. This will ensure that the sensors/detectors are installed within wireless range of the Control Panel, and that they are working properly.

To Enter Test/Battery Change Mode using the keypad on the Control Panel –
1) Enter the S key
2) Enter your new (or default) Passcode: x x x x
(One beep = correct entry / Three quick beeps = incorrect entry must be re-entered)
3) Wait until the LED displays "S"
4) Enter the * key (Command Code for this function). You will hear a "ding dong" as confirmation.
5) Activate each of the sensors/detectors (one at a time)
6) The Control Panel will emit beep sounds as each sensor/detector is activated to confirm proper operation. The number of beeps indicates the corresponding Zone of the sensor/detector.
NOTE: *A doorbell sound indicates a low battery in the sensor/detector*.

	Log
1	
2	
3	
4	
5	
6	

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