

SolarGuard™ SG4000  
*Dial-up alarm wire free system*

**INSTALLATION &  
USER GUIDE**

## IMPORTANT – PLEASE READ THIS SECTION FIRST

This is a Do-It-Yourself WIRELESS ALARM SYSTEM designed to help users protect themselves, their loved ones and their property and personal possessions. Please read through the important information below before getting started with the WIRELESS ALARM SYSTEM.

- Carefully follow the instructions in this manual when installing, setting up and programming the WIRELESS ALARM SYSTEM
- Take special notice of any specified notes, bullet points, and so on throughout this manual
- Please take the following precautionary measures while handling and situating the WIRELESS ALARM SYSTEM:
  1. Keep the WIRELESS ALARM SYSTEM away from water or damp areas
  2. Do not install the WIRELESS ALARM SYSTEM in direct sunlight or near extreme heat
  3. Do not install the WIRELESS ALARM SYSTEM near strong electrical current or magnetic force
  4. Avoid dropping the WIRELESS ALARM SYSTEM or placing it in an area with strong vibration
  5. Do not disassemble the product – Doing so will void the Warranty
  6. Use only the provided Adaptor from supplier
  7. The rechargeable backup battery MUST be a 9-volt Ni-Cad rechargeable battery
  8. To better understand the WIRELESS ALARM SYSTEM and its performance capabilities, users should test the entire system regularly.

***NOTE: The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss, whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function.***

## EASY DO-IT-YOURSELF INSTALLATION

Setup and installation of the WIRELESS ALARM SYSTEM is practically effortless, because all of the sensors and detectors are wireless. If you follow the instructions carefully, you should have no problem setting up and installing this system, and adding additional and optional accessories as needed.

**Please keep in mind that the factory default settings are specifically set up to simplify the installation and programming.** Although there are advanced setup and programming options (see the Advanced Programming section on page 18), they are NOT NECESSARY unless there are two similar systems within wireless signal range of each other, or if you desire to change the Site Code or Zones (see information below).

### **Ready-to-Go Default Site Code & Zone Settings**

NOTE: The factory defaults on all of the sensors are already set up with a generic Site Code and the most applicable Zone depending upon the sensor (Door/Window Sensors for Zone 1 and PIR Motion Detectors for Zone 2).

These settings do not have to be changed unless: 1) The Site Code default was incorrect and does not match with the other Site Code settings; 2) There are two similar systems within wireless range of each other; 3) Unless specifically desired by user. The procedure for changing the Site Code and Zone Settings can be found in the Advanced Programming section on page 18.

If no changes are necessary or desired, continue with the easy installation process that follows.

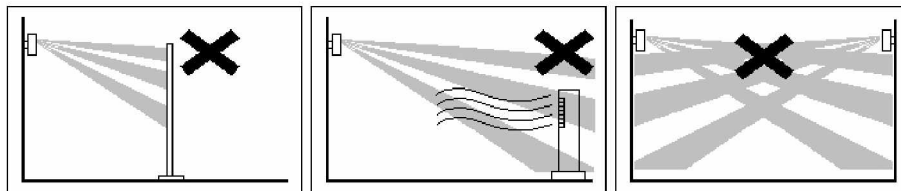
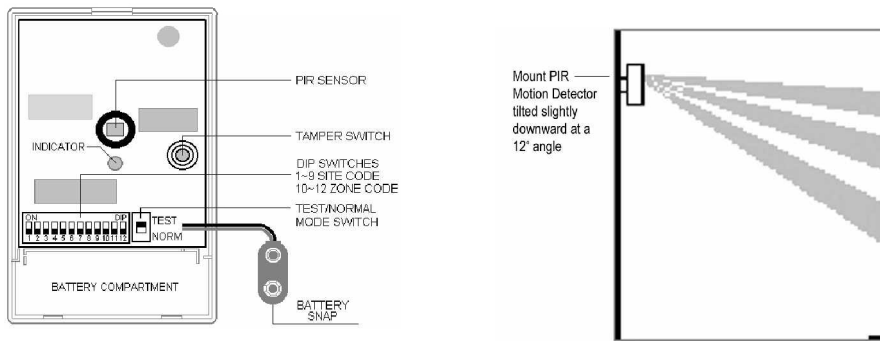
## Wireless PIR Motion Detector Installation

Mount the Wireless PIR Motion Detector utilizing the included mount and screws. Please follow the diagram and details listed below.

The PIR movement detector has a detecting coverage of 12 meters in a 120-degree arc on 3 layers. Install the detector at a height of approx. 2.1 meters (7 feet) from floor.

The PIR detector should be located in the corner of the room where an intruder would be forced to cross the detector's area of view. The PIR detector responds more effectively when crossed, as opposed to movement towards the unit. Ensure that the detector is within area where pets have no access. Make sure the detection area is not obstructed by curtains, large pieces of furniture, plants etc. which may block the pattern of coverage. Avoid locating detector in areas that contain objects likely to produce a rapid change in temperature, such as central heating, radiators, ducks, boiler, etc. Or in a position likely to be in direct sunlight or where heat deflection from a metal or glass surface is likely. Avoid locating 2 PIR detectors in one room as they may interfere with each other by radio signals sending at the same time when activated.

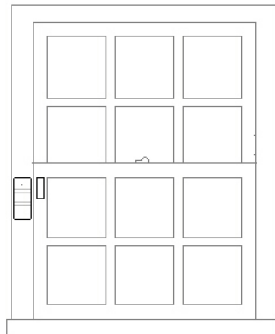
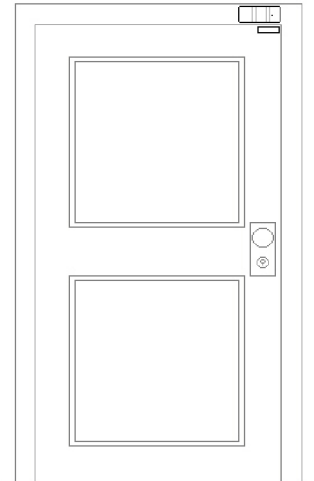
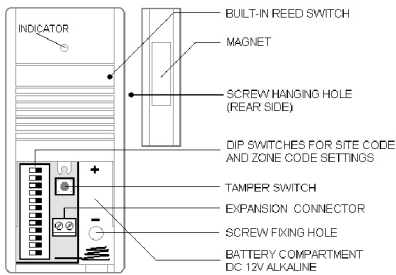
- Place the Motion Detector indoors only, on a wall in corner of room or desired location (pole, etc.)
- Tilt the Motion Detector facing slightly downward toward open area of room (approximately 12° angle)
- The detection range covers about a 120° angle horizontally and distance is approximately 36-ft.
- Install the supplied non-rechargeable PP3 battery.
- **IMPORTANT:** After initial testing remember to set the TEST/NORM switch to NORM to ensure maximum battery life.



## **Wireless Magnetic Door Transmitter Installation**

The Magnetic door/window detector should be located to the main entry/exit entrance. Additional Magnetic door/window detectors may be purchased and fitted to garage door, patio door, windows etc. Alternatively, low cost magnetic contacts may be purchased; these are simply wired to the Magnetic door/window transmitter and avoid complicated wiring back to a control panel. A magnetic contact consists of two elements, a wired reed sensor, and a magnet causing activation when parted. Mount the reed sensor on the selected door or window frame using the wood screws provided. And place magnet on the moveable part of the door or window so that sensor and magnet are parallel and NO MORE THAN 1 INCH APART.

- Remove the battery cover and fix the unit by using 2 screws provided.
- Fix the magnetic contacts to the door or window as shown in the figures below.
- Install 12V 23A battery in correct polarity. At this point the red indicator will illuminate.
- Refit the battery cover and the red indicator will go out.

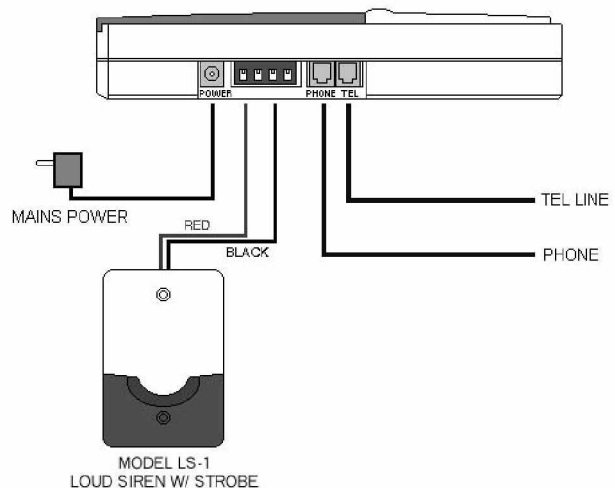


These illustrations show some typical installations of Magnetic Transmitter. For example one Magnetic Transmitter to one door or one window. Additional doors and windows can be monitored by using extra magnetic contacts with a single transmitter.

## Control Panel Installation

Follow the step-by-step instructions below in accordance with the diagram. Please note that it is best to centralize the Control Panel within the alarm site to achieve the best wireless range and functionality. If desired, the Control Panel can be mounted on a wall by utilizing standard screws and the screw slot on the back of the Control Panel along with the screw hole under the battery cover.

- 1) \*Install a 9 volt Ni-Cad Rechargeable Battery (not supplied)
- 2) Connect one end of the included telephone line into the LINE jack on the Control Panel, and the other end into a telephone jack on the wall.
- 3) Connect a telephone to the PHONE jack on the Control Panel.
- 4) \*Connect an external wired siren (**optional accessory**).
- 5) Connect the included Adaptor to the POWER jack on Control Panel, and plug into an electrical outlet.



## Learning the control panel into the wireless bell box

The SG4000 control panel has a built in transmitter module for communicating with the supplied AEI Security wireless bell box. The transmitter module has its own incorporated security code that will need to be learnt into the bell box before they can communicate. It is best to unplug the control panel from the telephone line whilst performing this sequence to prevent the unit from dialing out.

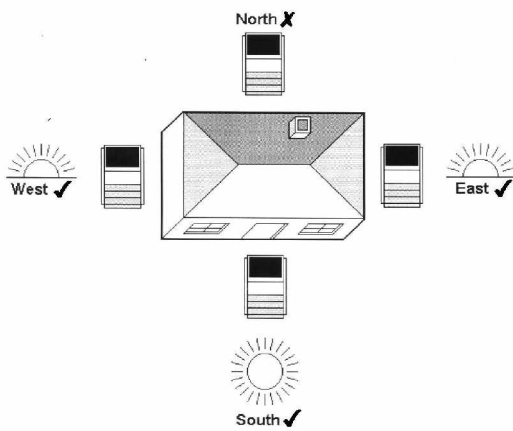
- Remove the blue cover on the wireless bell box. This is held in place by 2 screws on the lower edge. Keep the bell box at least 2-3 m away from the control panel to ensure that they do not interfere with each other.
- Install the 6V lead acid battery and ensure that the MODE switch is in position B.
- Press the **PANIC** button on the control panel or the remote control. The control panel built in siren will sound.
- After 5 seconds press the **START** button followed by the **LEARN** button on the wireless siren. The delay is very important as the panel has a 5 second delay before transmitting.
- The LED on the wireless bell box will illuminate and the bell box should emit 2 bleeps to indicate that the system has learnt.
- The LED will only remain lit for 5 seconds. If the wireless bell box does not bleep twice within this period you must repeat the steps above. The entire operation needs to be completed within approx 15 seconds as the control panel will only transmit its code for a short period once activated. You may need to try several times to get the timing of signals right.

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 panel or using the remote control. The 10 second delay is very important to ensure that the panel will have completed its transmission otherwise it may not disarm the wireless bell box. If this happens press the panic button again and pause for 15 seconds before disarming the system.

### **Locating the SolarGuard Wireless Bell Box**

Avoid mounting the SolarGuard console on a completely shaded wall. Avoid shadows from guttering roof overhangs, fascia boards, neighboring walls, trees ...etc. In practice, the SolarGuard console should be mounted at least 1 meter below gutter. This is because in winter the sun is lower in the sky and you should avoid winter shadows where possible. The SolarGuard console contains a receiver. However, reception of radio signals can be affected by the presence of metallic objects within the vicinity of the SolarGuard console. Therefore, it is important to mount the SolarGuard console a minimum distance of 1-meter radius away from any external and internal metalwork. i.e. external drainpipes, gutters and internal radiators, mirrors etc.

The SolarGuard wireless bell box contains 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 12VDC power supply to give the battery a boost charge if it becomes discharged. Please note the polarity marked on the board.



## SIMPLE STEP-BY-STEP PROGRAMMING

All programming is accomplished by utilizing the keypad on the Control Panel, while confirmation tones (or beeps) will confirm that the programming was correct and entered, or incorrect and not entered. The confirmation tones are as follows, unless otherwise specified:

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

Programming begins by entering a Function Key, then your Passcode, and then waiting a few seconds for the proper function display to show on the LED screen. You would then enter the specific programming options as stated in each programming step. When that programming step is completed, wait until the LED display is off, followed by 3 quick beeps. Then proceed to the next programming step as desired.

**Intelligent Storing Capability:** The Control Panel utilizes Intelligent Storing Capability to store programming information (data). **Once you have entered the programming data for any function, the Control Panel will automatically store that data within a few seconds. There is no need to press “store” or “enter” to save it.** Once programmed, the data will remain secure in the unit’s memory until changed by a user, even in the event of a power failure or outage.

**Please note that if you pause while entering a programming sequence the unit may not accept it. If this happens please enter the sequence again.**

### **Program User Pass code (Default: 1 2 3 4)**

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

- 1) Enter the **P** key
- 2) Enter the default Passcode: **1 2 3 4**
- 3) Wait until the LED displays “P”
- 4) Enter the **Y** key
- 5) Enter your new 4-digit Passcode
- 6) Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

**NOTE: If you forgot your Passcode, or want to reset the system to its original defaults, follow the procedure below to perform a Global Reset (resets Passcode and all programming functions to the factory defaults):**

- 1) Unplug the Power Adaptor and remove the Rechargeable Backup Battery
- 2) Press and hold the **Y** and **#** keys at the same time
- 3) While holding down the keys, plug in the Power Adaptor to power unit on
- 4) After one second, the unit will beep to confirm that the Global Reset was successful
- 5) The Passcode and all User Functions will be set to the factory defaults

### **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.

- 1) Enter the **P** key
- 2) Enter your new (or default) Pass code: **x x x x**
- 3) Wait until the LED displays “P”
- 4) Enter the **8** key (Command Code for this function)
- 5) Enter **0** ~ **9** depending on the amount of delay time you desire (This number will be automatically multiplied by 10 for the actual amount of seconds)

Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

### **Program Alarm/Siren Duration (Default: 4 minutes)**

This function is for users to program the duration (length of time) that the siren will sound upon alarm activation. You can program from 0 ~ 18 minutes.

- 1) Enter the **P** key
- 2) Enter your new (or default) Pass code: **x x x x**
- 3) Wait until the LED displays "P"
- 4) Enter the **9** key (Command Code for this function)
- 5) Enter **0** ~ **9** (This number will be automatically multiplied by 2 for the actual amount of minutes. For example, 8 will actually equal 16 minutes) depending on the length of time you want the siren to sound (Entering "0" turns the Siren feature off)

Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

### **Program Built-In Siren (Default: ON)**

This function allows the built-in loud siren to be turned on or off in the event of an alarm situation. The default mode is ON for the built-in loud siren.

- 1) Enter the **S** key
- 2) Enter your new (or default) Pass code: **x x x x**
- 3) Wait until the LED displays "S"
- 4) Enter the **2** key to turn siren OFF, or enter the **3** key to turn siren ON (default mode is ON)

Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

### **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). The default mode is ON for the door chime sound.

- 1) Enter the **S** key
- 2) Enter your new (or default) Pass code: **x x x x**
- 3) Wait until the LED displays "S"
- 4) Enter the **4** key to turn door chime OFF, or enter the **5** key to turn door chime ON (default mode is ON)

Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

### **Site Code Learning from Pocket Remote (only necessary if changed from factory)**

This function allows the Control Panel to "learn" the security system Site Code. The Pocket Remote must be set with the master code, and all other detectors must be set with the same Site Code as the Pocket Remote. It is best to use the factory default setting unless absolutely necessary (see Advanced Programming on page 18). Please note the Pocket Remote is the only component in the system for Site Code learning.

- 1) Enter the **L** key
- 2) Enter your new (or default) Pass code: **x x x x**
- 3) Wait until the LED displays "L"
- 4) Enter the **#** key (Command Code for this function)
- 5) Push any button on the Pocket Remote

Within a few seconds you will hear a confirmation tone, and the information is stored (One beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

### **Program Auto-Dialer Telephone Numbers**

This function allows for up to six phone numbers to be entered into the Auto-Dialer, each of which will be called in sequence in the event of an alarm activation.

NOTE: In most cases, it is recommended to have the system call out to users, family members, neighbors and so on, **do not program your alarm system to telephone the emergency services.**

- 1) Enter the **P** key
- 2) Enter your new (or default) Pass code: **x x x x**
- 3) Wait until the LED displays "P"
- 4) Enter the **1** key to program the first phone number to be dialed (For each of the second through sixth phone numbers, repeat this entire programming stage and enter **2** ~ **6** at this step)
- 5) Enter the phone number of choice, up to 16 digits including pauses (For dialing out on a PBX system or similar, you can add a "pause" to the phone number by entering **Y** within the number. For example, 9\*12125551212 would dial 9, then pause for 2 seconds, then dial 1, the area code and number)

Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered). The LED will flash the programmed phone number for confirmation.

### **Program Automatic Dialing Cycles (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 times (2 cycles). You can program it for up to 9 cycles.

- 1) Enter the **P** key
- 2) Enter your new (or default) Pass code: **x x x x**
- 3) Wait until the LED displays "P"
- 4) Enter the **7** key (Command Code for this function)
- 5) Enter **1** ~ **9** depending on the amount of cycles you desire

Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

### **Program Remote Call-In Ring Cycle (Default: 6 Rings)**

This function is for users to program the amount of rings before the system picks up during a Remote Call-In (calling in to system from anywhere in the world to arm, disarm, monitor or speak). The factory default is 6 rings, but you can program up to 9 rings.

- 1) Enter the **P** key
- 2) Enter your new (or default) Pass code: **x x x x**
- 3) Wait until the LED displays "P"
- 4) Enter the **0** key (Command Code for this function)
- 5) Enter **0** ~ **9** depending on the amount of rings you want before the system automatically picks up (Entering "0" turns Remote Call-In feature OFF)

Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

### **Record Alarm Notification Message**

This function is for users to record the 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 replay message). The following script can be used as a guide on how to word your message. **Make sure that you speak clearly and steadily, approximately ten inches from the microphone. Keep in mind that you have exactly 20 seconds of recording time.**

Message Script suggestion:

***“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, and 8 to stop dialing and disconnect.”***

- 1) Enter the **P/R** key
- 2) Enter your new (or default) Pass code: **x x x x**
- 3) Wait until the LED displays “**L**”
- 4) Enter the **#** key (Command Code for this function)
- 5) Begin recording the message for up to 20 seconds
- 6) At the end of the 20 seconds you will hear a confirmation tone, and the message is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

\*To replay the message, repeat steps 1, 2 and 3, then enter **7** to hear the message.

### **Ring Back Tone Learning**

This function allows the Control Panel to “learn” the unique telephone ring back specific to user’s country or locale. This is a very simple procedure, but it is extremely important to the entire operation of the Auto-Dialer feature.

- 1) Make sure that a telephone number has been programmed into phone number position 1 before beginning this procedure
- 2) Make sure that the person on the other end of that telephone number DOES NOT pick up the telephone during this procedure
- 3) Enter the **L** key
- 4) Enter your new (or default) Pass code: **x x x x**
- 5) Wait until the LED displays “**L**”
- 6) Enter the **7** key (Command Code for this function)
- 7) The system will dial the telephone number in position 1 automatically

The system will emit one beep tone to confirm that the Ring Back Tone Learning has been completed successfully / Three quick beeps = incorrect entry must be re-entered.

### **Check Programmed Settings**

This function is used to check the programmed settings. These are one-key operations utilizing 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 number
- To check AUTOMATED DIALING CYCLES: Press 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 the ALARM/SIREN DURATION: Press the **9** key and the LED will display the total amount of minutes
- To check REMOTE CALL-IN RING CYCLE: Press the **0** key and the LED will display the number of ring cycles
- To check the LAST ACTIVATED ZONE: Press the **#** key and the LED will display the last Zone activated from the Alarm Activation Memory

To check LOW BATTERY STATUS: Press the **7** key and the LED will display the Zone in which there is a sensor/detector with a low battery.

## USER GUIDE FOR EASY OPERATION

Operating the WIRELESS ALARM SYSTEM is a pleasure, thanks to the Pocket Remote and the user-friendly operating procedures. Some functions can be operated utilizing the Pocket Remote, keypad on the Control Panel, or from anywhere in the world via the intuitive Remote Call-In feature which allows users to operate the system from any telephone. The following operating instructions will help you to fully benefit from the many features and functions of the WIRELESS ALARM SYSTEM.

### 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 Pocket Remote –

- 1) Press the **MODE** button on the Pocket Remote
- 2) Within a few seconds you will hear one chirp as a confirmation, and the setting is accomplished

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 **1** key (Command Code for this function)
- 5) Within a few seconds after the confirmation tone you will hear one beep, and the setting is accomplished

### Enter Partial Arming Mode

This function is used 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 premise (home, office, etc.) without activating the PIR Motion Detectors, while the perimeters (doors, windows, etc.) will remained armed.

Partial Arming Mode can only be entered using the keypad on the Control Panel as follows:

- 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)
- 5) Within a few seconds after the confirmation tone you will hear one beep, and the setting is accomplished

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

### **Enter Disarming Mode**

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

Using Pocket Remote –

- 1) Press the **MODE** button on the Pocket Remote
- 2) Within a few seconds you will hear three chirps as a confirmation, and the setting is accomplished

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 **0** key (Command Code for this function)
- 5) Within a few seconds after the confirmation tone you will hear three beeps, and the setting is accomplished

### **Enter Emergency/Panic Alarm**

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

Using Pocket Remote –

- 1) Press the **PANIC** button on the Pocket Remote
- 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 –

- 1) Press the **PANIC** button on the control panel.
- 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**).

### **Enter Test 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 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 **7** 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.

**TO EXIT TEST MODE** (and enter Disarming Mode) you must use the keypad on the Control Panel as follows:

- 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 **0** key (Command Code for this function)
- 5) Within a few seconds after the confirmation tone you will hear three beeps, and the setting is accomplished

### **Responding 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 dialing all programmed phone numbers, or replay the Alarm Notification Message. This can all be accomplished by pressing specified keys on any telephone keypad, from anywhere in the world.

Upon an 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 recipient's procedure and options are as follows:

- 1) Answer the call, then wait for the pre-recorded Alarm Notification Message to finish playing
- 2) Within 10 seconds after you hear the confirmation tone, press a key for the desired function as follows:
  - Press **4** to Monitor/Listen in
  - Press **5** to Speak via 2-way Speakerphone
  - Press **6** to have system Hang Up and Dial Next Programmed Phone Number
  - Press **7** to Replay the Alarm Notification Message
  - Press **8** to have system Stop Dialing all Programmed Phone Numbers and Disconnect Call

### **Remote Access from Any Outside Telephone**

This function 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 telephone keypad, while calling in from anywhere in the world.

The user must call into the system, and the system should pick up in a certain amount of rings as specified by the Remote Call-In Ring Cycle (programmed earlier). 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) Passcode: **x x x x**  
(If you enter an incorrect Passcode, you will hear three beeps and the telephone line will hang up)
- 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 = one beep)
  - Press **0** to Enter Disarming Mode (Confirmation = two beeps)
  - Press **#** to Enter Partial Arming Mode (Confirmation = three 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 Disconnect (Confirmation = one long beep)

### **LED Indicators on Control Panel**

The table below shows the light/flash representations of each LED Indicator on the Control Panel, depending upon the status of the system.

<b>LED Indicator</b>	<b>Light/Flash Representation</b>
AC POWER	<ul style="list-style-type: none"><li>Steady light when power is normal</li></ul>
TEL LINK	<ul style="list-style-type: none"><li>Steady light when telephone line is linking</li></ul>
RING	<ul style="list-style-type: none"><li>Flashes when there is an incoming call</li></ul>
LINE CUT	<ul style="list-style-type: none"><li>Steady light when the telephone line is cut</li></ul>
RF LINK	<ul style="list-style-type: none"><li>Flashes when receiving signals from sensors/detectors/transmitters</li><li>Slow flashes represent Low Battery of sensor/detector</li></ul>
MODE/MEMO	<ul style="list-style-type: none"><li>Steady light when keypad is in operation</li><li>Flashes twice per second when system is in Full Arming Mode</li><li>Flashes once per second when system is in Partial Arming Mode</li><li>LED off when system is in Disarming Mode</li><li>Flashes once per 2 seconds when system is in Testing Mode</li></ul>

### **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 **[Y]** key. The LED will display the Zone number that the sensor operates on. Replace the battery right away.**

### **Alarm Activation Memory**

This feature records the last Zone that was activated during an Alarm Activation. When disarming 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.**
- To check the last Zone activated, press the **[#]** key. The LED will display the last activated Zone number as follows:**

Digit "1" = Zone 1  
Digit "2" = Zone 2  
Digit "3" = Zone 3  
Digit "4" = Zone 4  
Digit "5" = Zone 5  
Digit "6" = Zone 6  
Digit "7" = Tamper or Panic from wireless accessories  
Digit "9" = Panic button or Tamper on Control Panel was activated

- To clear the Alarm Activation Memory, follow the steps below:**
  - Enter the **[P]** key
  - Enter your new (or default) Passcode: **[x][x][x][x]**
  - Wait until the LED displays "P"
  - Enter the **[#]** key (Command Code for this function)
  - The LED will display "0" "0" to confirm the programming is successful

## ADVANCED PROGRAMMING

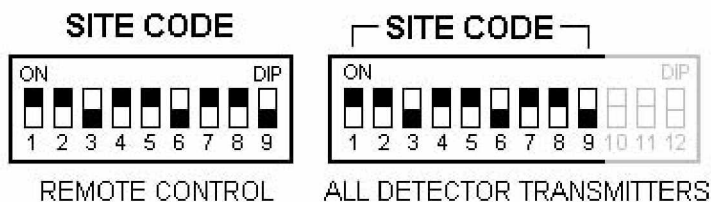
This section is for advanced programming options and should only be used in the following cases:

- The Site Code default was incorrect and does not match with the other Site Code settings
- There are two similar systems within wireless signal range of each other
- You would like to change the Site Code or Zones for extra security or other reasons

### Setting the Site Code

The Site Code is the “code” or “frequency” that this particular system will operate on. The factory default Site Code setting is fine for most users, but it can be changed if necessary.

The Site Code utilizes DIP Switches 1 through 9 (see figure below) to create a unique code, using combinations of ON and OFF that the Control Panel and all sensors/transmitters and accessories must match. You can create any Site Code that you desire, as long as all components use the same exact code. Figure 1 shows a Site Code example setting for the Pocket Remotes and all sensors/transmitters. If you change the Site Code, you must re-program the Control Panel to match the same code. This can be accomplished by following the procedure in “Step 7 – Code Learning from Pocket Remote” on page 10 in the Simple Step-by-Step Programming section.



### Setting the Sensors/Transmitters to Specific Zones

This system has Six “Zones” plus a Panic/Tamper Zone, each of which can be triggered during various alarm situations (see Active Zones below). These Zones can help you to pinpoint which sensor/transmitter was triggered in an alarm situation or system notification. The factory default Zone settings are fine for most users, but can be changed if necessary.

The wireless sensors/transmitters use twelve DIP Switches to set the Site Code and Zones (1-9 for Site Code; 10-12 for Zone). The settings for switches 10 through 12 will determine the Zone that a sensor will trigger when an alarm is activated, battery is low and so on. The figure below shows the DIP Switch settings for each particular Zone.

ZONE DIP SWITCH	<b>ZONE 1</b> ENTRY/EXIT	<b>ZONE 2</b> INSTANT	<b>ZONE 3</b> INSTANT	<b>ZONE 4</b> INSTANT	<b>ZONE 5</b> INSTANT	<b>ZONE 6</b> 24 HOUR
<b>10</b>	ON	OFF	ON	OFF	ON	OFF
<b>11</b>	OFF	ON	ON	OFF	OFF	ON
<b>12</b>	OFF	OFF	OFF	ON	ON	ON
<b>ZONE CODE SETTINGS</b>						

## Active Zones

The table below shows which Zones are active in the various modes that the system can be set to.

<b>MODE</b>	<b>ZONE 1 (Entry/Exit)</b>	<b>ZONE 2 (Entry/Exit)</b>	<b>ZONE 3 (Instant)</b>	<b>ZONE 4 (Instant)</b>	<b>ZONE 5 (Instant)</b>	<b>ZONE 6 (24-HR, Smoke, etc.)</b>	<b>PANIC/TAMPER (24-HR)</b>
Arming Mode	Active	Active	Active	Active	Active	Active	Active
Partial Arming Mode	Active	Not Active	Not Active	Active	Active	Active	Active
Disarming Mode	Not Active	Not Active	Not Active	Not Active	Not Active	Active	Active
Battery Check	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active

## Frequently Asked Questions

- q. The cut line LED continues to light even when I have connected the telephone line.  
a. Try connecting the telephone cable directly to your telephone socket or try an alternative telephone point.
- q. When I first 'arm' the system it activates the sirens immediately  
a. There is a tamper circuit problem. Check all tamper switches especially those on the control panel and front and back switches on the SolarGuard.
- q. When the system is armed and I enter the building I do not get an entry delay and the siren sounds immediately  
a. This is because a detector set to an instant zone can see you. Change the detectors to an enter/exit zone via its internal switches
- q. Is it necessary to use all the detectors included in the main package?  
a. No. You only need to use the detectors you wish to install
- q. Is it necessary to connect up the audio dialler to the telephone line?  
a. No the system will function perfectly without connection to the telephone line providing audible warning of activation.
- q. Whilst programming the control panel I get 3 beeps during entry.  
a. You must not delay any more than 3 seconds between button presses during any programming sequence. If 3 beeps occur simply restart the code entry sequence from the beginning.
- q. The external siren does not sound when I press the panic button on the control panel  
a. Codes are sent from the panel each time the sirens are activated but the codes must be learnt into the external SolarGuard by pressing the learn button during the set up stage. See page 20.
- q. At what point to I press the learn button inside the SolarGuard?  
a. You only need to press this once during the set up stage. Please see page 20 for more information.
- q. Will the codes learned by the external SolarGuard unit ever be lost or erased.  
a. No. Even after power failure the codes will always be stored within the SolarGuard as the solar cell will provide power. The SolarGuard may lose the code if the power is disconnected for extended periods. In this case refer to page 20 for site code learning.
- q. What is the difference between the Site Code and the Zone code?  
a. The site codes ensures that your system is not interfered with by other systems operating nearby  
a. The zone code enables you to choose the zone on which detectors operate during the installation stage. The zone code will alter the behaviour of an individual sensor, changing it between entry/exit mode, instant mode and panic mode.
- q. What prevents someone else from operating our alarm system with another remote control?

a. Inside the remote control are 9 switches forming the site code chosen during installation and known only to the installer.

q. What happens if I leave the PIR movement detectors in test mode?

a. The 9v battery will only last a few months in the test mode.

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.

q. Can I use rechargeable batteries in the detectors?

a. no because rechargeable batteries only have short lives compared to alkaline and have a lower operating voltage.

q. Why do my batteries only last a few months in the PIR detector?

a. Check that the battery connections are tight.

q. Can I add additional remote controls?

a. Yes. Use part number RM01.

q. When the PIR is set into normal mode I cannot get the control panel zone indicator to respond when I move in front of the detector.

a. This is because the PIR sleeps for 4 minutes between activations to conserve battery power.

q. Can I use NimH rechargeable batteries in the control panel.

a. Yes. The control panel now supports NimH batteries.

## **TECHNICAL SUPPORT:**

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