

# User Guide

## Wire-Free Home Protection System WS100S



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## Section 1 – Getting Started

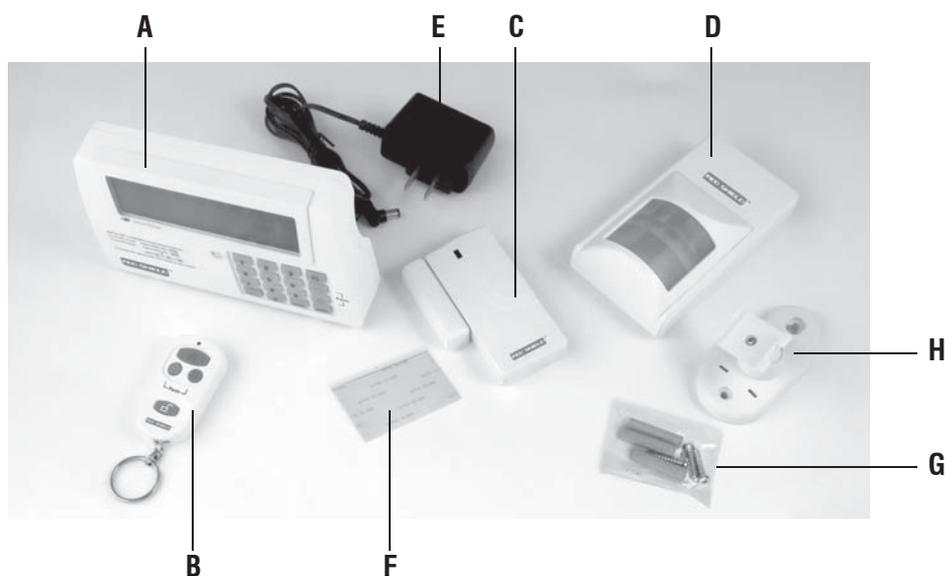
### 1.1 Introduction to the System

The Wire-free Home Protection System WS100S is a high quality security system combined with user-friendly features that allow you to know the state of security of your home at all times. The System is managed by a Smart Panel, which gathers information from wireless sensors placed inside and at the entry points of your home. If the Smart Panel detects a security breach, you will be alerted via indicator lights and sounds. For installation and proper use of the Smart Panel, please familiarize yourself with this User Guide.

### 1.2 Items included with the System

Please check that all of the following items were included in the package before installing the System:

- A. Smart Panel WS101
- B. 4-Button Key Fob Remote WS101TX
- C. Door/Window Magnetic Sensor WS102 (2 parts)
- D. Motion Sensor WS103
- E. AC Adaptor for Smart Panel
- F. Velcro Sticker for Door/Window Magnetic sensor
- G. Screws & Screw Jackets (3 sets)
- H. Mounting Bracket for Detect Motion Sensor
  - Mounting Template
  - Quick Start Guide
  - User Guide



### 1.3 Introduction to the Smart Panel WS101

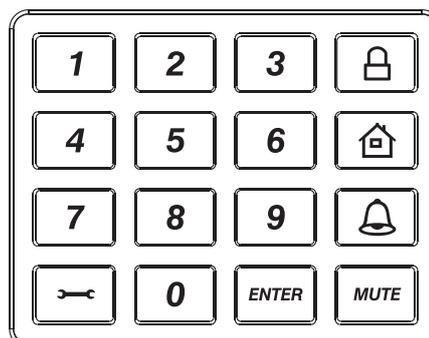
#### LCD Screen:



#### Numeric Buttons:

0,1,2,3,4,5,6,7,8,9

#### Keypad:



### Programming Buttons:

 **ENTER** **MUTE**

### Function Buttons:

ARM	HOME	ALERT
		

### Other:

"9VDC INPUT" port	For AC Adaptor (Included)
Siren	120dB Buzzer
Battery Compartment:	Backup battery - 9V Alkaline Battery (Not Included) House code - Pin Header x 4, Jumper: x 4 "Reset" button - When you lost the 4-Digit, press: "Reset" and enter factory default password

## 1.4 Introduction to the Smart Panel Backlight

	Mode	WS101 BZ Sound (Zone triggering)	Backlight Indication
1	ARM	Siren	Triggered—Red backlight will flash
2	HOME	Siren	Triggered—Red backlight will flash
		Chime	Triggered—Green backlight will flash
3	ALERT	Chime	Triggered—Green backlight will flash
4	OFF	No response	Operating—Yellow backlight ON

## Section 2 – Installing the Wire-free Home Protection System WS100S

### 2.1 Installing the Smart Panel WS101

Determine the location of the Smart Panel:

#### Note:

- The panel should be placed within a few feet of an electrical outlet.
- The panel should be easily accessible.
- The panel should not be placed near doors or windows that could be accessed by unintended users.
- The panel should not be placed near extreme temperature sources (ovens, stoves etc.) or near large metal objects that could interfere with the wireless performance.

Once you have selected a location for the Smart Panel, you are ready to begin powering up the System.

### 2.2 Powering up the Control Panel

Unscrew the battery compartment and remove the cover. Take out the LED demo socket and insert a new battery noting the polarity as shown in the diagram below. Plug in the AC adaptor to the Smart Panel and connect it to a wall socket. Replace the cover and the screw.

	Description	Note
1	Insert backup battery (9V Alkaline – Not Included)	<ul style="list-style-type: none"> <li>- You will hear one beep and the backlight will blink within 1 second (Yellow → Red → Green → Yellow)</li> <li>- The Smart Panel will enter “OFF” mode after the automatic self - checking is complete. Then  will appear on the LCD screen.</li> <li>- Enter the default 4-Digit PIN 1234</li> </ul> 
2	Battery Voltage low level Plug in AC adapter to the DC socket	<ul style="list-style-type: none"> <li>- OFF Mode (Keypad Lock)</li> <li>- Power supply: Backup Battery</li> <li>- * Make sure that you are in STANDBY Mode</li> <li>- STANDBY Mode: Enter your 4-digit PIN, press "ENTER" then  will disappear.</li> </ul> 
3	System Entry “OFF” mode	<ul style="list-style-type: none"> <li>- OFF Mode (Keypad Lock)</li> <li>- Power supply: AC adapter</li> <li>- Make sure that you are in STANDBY Mode</li> <li>Go to STANDBY Mode: Enter your 4-Digit PIN</li> </ul> 

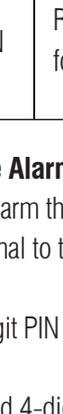
**Note:** The AC power supply must be plugged in at all times; a 9V battery functions as BACK UP power supply only when the AC power supply is interrupted.

### 2.3 Understanding the Battery and AC Adaptor Symbols

	Full - battery voltage > 9.0V
	High - battery voltage <9.0V/>8.0V
	Middle - battery voltage <8.0V/ >7.0V
	<p>Low - battery voltage &lt;7.0V</p> <p>*Low battery will occur when the AC power supply is unplugged or interrupted. 9V battery functions as BACK UP and the  symbol means LOW BATTERY (battery voltage &lt;7.0V). The LCD Backlight flashes yellow for 30 sec. and  will blink until the new battery is replaced or the AC power supply is plugged in.</p>
	<p>Power Supply = AC Adapter</p> <p>*When the power supply switches from the battery to the AC Adaptor, the AC symbol will appear (  ) and the Low Battery symbol (  ) will flash, indicating that the Smart Panel backup battery is running low. The backlight will be 'ON' while the AC adapter connects to the power supply.</p>

## Section 3 – Using the Wire-Free Home Protection System WS100S

### 3.1 Programming your new 4-Digit PIN

Step	Keys	Description	Note
1	1234 Enter	"Standby" Mode	You must be in STANDBY Mode. *To make sure you are in STANDBY mode: - Enter the factory default PIN 1 2 3 4 - Press ENTER - The symbol "  " will disappear 
2	 1	Setting the new PIN	Press  then 1 to set the new PIN The screen will show  &  symbols 
3	 4-Dight PIN Enter	Entering the new PIN	Enter a 4-Dight PIN * Choose from digits 0 to 9
4	 4-Dight PIN Enter	Re-entering new PIN for confirmation	Re-enter your 4-Dight PI * One beep indicates that you entered a valid PIN; Three beeps indicate that an invalid operation was performed.

### 3.2 Transmitting the Alarm Signal without a Siren

If you are forced to disarm the System, enter the Duress Password to stop the siren from sounding; the Smart Panel will silently transmit the alarm signal to the optional sensors (Auto Dialer & Outdoor Bell Box) for help.

#### Duress Password:

Enter the default 4-Digit PIN = 1234 + 1

OR

Enter your personalized 4-digit PIN + 1

### 3.3 Operating different Modes

The system consists of 4 Operating Modes (STANDBY, ARM, ALERT, and HOME) to suit the user's needs. You may select from the 4 modes to be applied to the sensors.

#### 3.3.1 STANDBY

If in Standby, the Smart Panel is prepared for mode selection.

#### 3.3.2 ARM Mode

If in Arm Mode, the Smart Panel alarm will sound and a Red LED will flash when the system is triggered.

##### A. Arming the System

- On the Smart Panel: Enter your 4-Digit PIN + "ENTER" then press  to activate.

- On the Remote Control: Press  to activate.

Step	Keys	Description	Note
1	(1234 / 4-DIGIT PIN) + 	"Standby " Mode	You must be in STANDBY Mode *To make sure you are in STANDBY mode: - Enter the default PIN 1 2 3 4 OR your new 4-Digit PIN - Press ENTER. - The LCD screen will display the below image:  (One beep indicates that you entered a valid PIN; Three beeps indicate that an invalid operation was performed).
2	4-DIGIT PIN  	Enter 4-DIGIT PIN and  for ARM Mode	Entry delay: up to 15 seconds * There is a 15sec entry delay time with a visual count down before the system is armed. * If the Zone is enabled a number will appear as displayed in the image below: 
3		Press  to Complete	The System will enter ARM Mode after 15 seconds. 

### B. Disarming the System

- On the Smart Panel: Enter your 4-Digit PIN followed by  to disarm the system.
- On the Remote Control: Press  to disarm the system

### C. Zone Settings

	ZONE1	ZONE2	ZONE3	ZONE4	ZONE5	ZONE6	ZONE7	ZONE8
ARM Mode	ALARM							

### Programming a Zone in each mode:

Step	Keys	Description	Note
1	(1234 / 4-DIGIT PIN) + 	"Standby " Mode	You must be in STANDBY Mode *To make sure you are in STANDBY mode: - Enter the default PIN 1 2 3 4 OR your new 4-Digit PIN - Press ENTER. - The LCD screen will display the below image:  (One beep indicates that you entered a valid PIN; Three beeps indicate that an invalid operation was performed).

Step	Keys	Description	Note
2	4-DIGIT PIN 	Enter 4-DIGIT PIN for setting	LCD will shown per below:  (One beep indicates that you entered a valid PIN; Three beeps indicate that an invalid operation was performed).
3	 	Press  then  to set the ARM mode	- Toggle 1, 2, 3, 4, 5, 6, 7, 8 to turn each zone ON or OFF - If no number appears, the zone is turned OFF - The LCD screen will display the below image: 
4		Press  to Complete the setting	After the setting is completed, return the Smart Panel to STANDBY for mode selection.

#### D. Triggers in ARM Mode

Example: Zone 1 trigger

Step	Keys	Description	Note
1		“ARM” Mode	 Smart Panel’s alarm will sound and a Red LED and  will flash when the system is triggered.
2		System trigger	 One beep indicates that the system is triggered.
3		Entry delay 30 seconds	There are 30secs. of entry delay time with visual count down for disarming Smart Panel’s alarm will sound and RED LED flashes when system triggered without disarming in 30secs.
4		The System sounds for 3 minutes	Sound: Alarm Siren (3minutes) *To turn off the siren, enter the 4-Digit PIN or press  on the remote control to exit the current mode.
5		Return to ARM Mode after the 3 minute siren	The Smart Panel Red LED &  will flash until the system is disarmed.

#### 3.3.3 ALERT Mode

If in Alert mode, the Smart Panel chime will sound and a Green LED will flash when the system detects a visitor in the protected area.

##### A. Entering ALERT Mode

- First make sure the Smart Panel is in STANDBY Mode
- On the Smart Panel: Enter your 4-Digit PIN + “ENTER” then press  to activate.
- On the Remote Control: Press  to activate.

## B. Triggers in ALERT Mode

- Example: Zone setting:

	ZONE1	ZONE2	ZONE3	ZONE4	ZONE5	ZONE6	ZONE7	ZONE8
ALERT Mode	ALERT	Disabled	ALERT	ALERT	ALERT	ALERT	ALERT	ALERT

Programming a Zone in each mode:

Step	Keys	Description	Note
1	(1234 / 4-DIGIT PIN) + 	"Standby" Mode	You must be in STANDBY mode *To make sure you are in STANDBY mode: - Enter default PIN 1 2 3 4 OR your new 4-Digit PIN - Press ENTER - The LCD screen will display the below image:  (One beep indicates that you entered a valid PIN; Three beeps indicate that an invalid operation was performed).
2	4-DIGIT PIN 	Enter 4-DIGIT PIN for setting	The LCD screen will display the below image:  (One beep indicates that you entered a valid PIN; Three beeps indicate that an invalid operation was performed).
3	 	Press  then  to set the ALERT Mode	Toggle 1, 2, 3, 4, 5, 6, 7, 8 to turn each zone ON or OFF - If no number appears, the zone is turned OFF - The LCD screen will display the below image: 
4		Press  to complete the setting	After setting is completed, the Smart Panel will return to STANDBY Mode, ready for mode selection.

### 3.3.4 HOME Mode

There are default settings that allow the system to operate after opening the package. You can adjust the settings to suit your needs. This mode allows the system operate in both the Arm and Alert Modes in different zones.

**HOME mode default setting:**

Device	Sensor	Zone	Status (MODE)
WS102	Magnetic	1	ALERT
WS102	Magnetic	2	ALERT
WS103	PIR	8	ARM

**A. Entering the HOME Mode**

- First make sure the Smart Panel is in STANDBY Mode
- On the Smart Panel: Enter your 4-Digit PIN + “ENTER” then press  to activate.
- On the Remote Control: Press  to activate.

**B. Triggers in HOME Mode**

- Example: Zone setting:

	ZONE1	ZONE2	ZONE3	ZONE4	ZONE5	ZONE6	ZONE7	ZONE8
HOME Mode	ALARM	Disabled	ALARM	ALARM	ALARM	ALARM	ALERT	ALERT

Programming a Zone in each mode:

Step	Keys	Description	Note
1	(1234 / 4-DIGIT PIN) + 	“Standby” Mode	You must be in STANDBY Mode before any steps. * To make sure you are in STANDBY Mode: - Enter default PIN of 1 2 3 4 or your 4-Digit PIN - Press ENTER - The LCD screen will display the below image:  (One beep indicates that you entered a valid PIN; Three beeps indicate that an invalid operation was performed).
2	4-DIGIT PIN 	Enter 4-DIGIT PIN for setting	- The LCD screen will display the below image:  (One beep indicates that you entered a valid PIN; Three beeps indicate that an invalid operation was performed).
3	 	Press  then  to set the Alert mode	Toggle 1, 2, 3, 4, 5, 6, 7, 8 to turn each zone in different mode <input checked="" type="checkbox"/> 1 Indicates ALERT mode for a zone <input checked="" type="checkbox"/> 1 Indicates ARM mode for a zone <input type="checkbox"/> Indicates the zone is turned OFF, number will not appear - The LCD screen will display the below image: 
4		Press  to complete the setting	After setting is completed, the Smart Panel will return to STANDBY Mode, ready for mode selection.

## Section 4 – Installing the Sensors

### 4.1 Introduction to the Sensors

The Wire-Free Home Protection System WS100S allows you to expand your system at any time. The System includes a range of sensors such as a 4-Button Key Fob Remote, a Door/Window Magnetic Sensor, a Motion Sensor, an Optional Auto Dialer, an Outdoor Bell Box, a Mat Sensor, a Garage Door Sensor, an Inactivity Sensor, and a Shock Sensor.

The Wire-Free Home Protection System WS100S includes 3 wireless Sensors and 1 Key Fob Remote, which have a pre-programmed default setting that begins working immediately once the battery is activated. It is advisable to install the main package first and then personalize the settings once the System is functioning properly. This section should help you to change the System settings in order to create a more personal home environment.

### 4.2 Installing the Sensors

First, determine the location of the sensors.

#### Note:

- The Sensors should not be easily accessible.
- The Sensors should be placed in the most vulnerable rooms or near key entry points.
- The Sensors should not be placed near extreme temperature sources (ovens, stoves etc.) or near large metal objects that could interfere with the wireless performance.

Once you have selected a location for the Sensors, you are ready to begin powering up the System.

#### 4.2.1 Installing the Door/Window Magnetic Sensor WS102

The wireless Magnetic Sensor consists of two pieces. The sensor detects when a door or a window is opened. The two parts are fastened near the door or the window. One part functions as the transmitter and the other as the magnet. Once the Magnetic Sensor is installed, any abnormality in the circuit will trigger an alert message that is transmitted to the Smart Panel. The Magnetic Sensor is pre-programmed in Zone 1 and Zone 2; however, the settings can be adjusted according to your needs. (See 2.4 Zone Setting)

#### A. Powering up the the Door/Window Magnetic Sensor WS102

- Remove the battery cover; insert new batteries noting the polarity as shown in the diagram below; replace the cover. (Requires 2 - AAA batteries, Not Included)



#### B. Installing the Door/Window Magnetic Sensor WS102

- Mount the transmitter on a fixed surface such as a door or a window frame.
- Mount the magnet on a movable surface such as a door or a window.
- The transmitter side marked with a "> / <" must face the magnet



- The transmitter and the magnet must be no more than 0.5mm apart.

### **C. Mounting with the Double-Sided Adhesive**

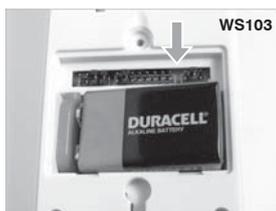
- Ensure the mounting surface is clean.
- Peel back one layer of the protective film and attach it to the transmitter.
- Peel back the remaining layer of protective film and press the transmitter firmly in place against the mounting surface until firmly attached.
- Repeat to attach the magnet.

#### **4.2.2 Installing the Motion Sensor WS103**

The Wire-Free Home Protection System WS100S includes one Motion Sensor set described as a passive infrared sensor (PIR). PIR sensors are designed to sense movement of anyone or anything that exceeds 36 kg (80 lbs) in a given area. If less than 36 kg (80 lbs), no alert message is transmitted. Note: Pets larger than 36 kg (80 lbs) must be no more than 1 meter high. It is best if pets are not allowed onto higher surfaces so that the sensors are not triggered unnecessarily. Also, the sensors become increasingly sensitive the closer the movement.

### **A. Powering up the Motion Sensor WS103**

Remove the battery cover; insert a 9V battery noting the polarity as shown in diagram below; replace cover. (Requires 1 - 9V battery, Not Included)



### **B. Installing the Motion Sensor WS103**

- First, determine the location of the Motion Sensor.

#### **Note:**

- The Sensor should not be easily accessible.
- The Sensor should be placed in the most vulnerable rooms or near key entry points.
- Place the Sensor on a sturdy surface between 1.8m to 2.4m (6ft to 8ft) from the floor.
- The Sensor should not be placed near extreme temperature sources (ovens, stoves etc).
- The Sensor should not be placed in direct sunlight.
- Do not install the Sensor outdoors or behind partitions.

You have the choice of attaching the Motion Sensor with screws or the adhesive provided.

### **C. Mounting using the Double-Sided Adhesive**

- Ensure the mounting surface is clean.
- Peel back one layer of the protective film and attach it to the back of the Motion Sensor.
- Peel back the remaining layer of protective film and press the Motion Sensor firmly in place against the mounting surface until firmly attached.

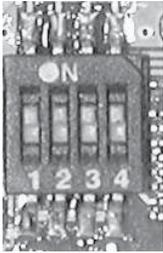
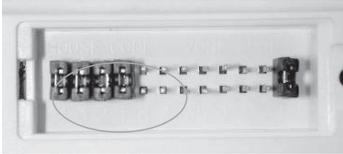
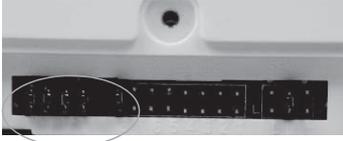
### **D. Mounting using Screws**

- Hold the enclosed mounting template against the wall at the selected location and mark the points for drilling.
- Drill the holes and insert wall plugs.
- Attach the bracket to the mounting surface with the screws provided.
- Attach the Motion Sensor to the mounting bracket.

### 4.3 House Code and Zone Setting

The Wire-Free Home Protection System WS100S allows you can change the house security codes to avoid interference with different combinations.

Step 1: Remove the battery compartment cover. You will find the 4 jumpers for setting the house security code. In most cases you will not need to change the factory settings for the house security code. If the Smart Panel and sensors activates intermittently or does not work at all, you may be able to solve the problem by changing your security code.

<p>WS101 Jumper</p>		<p>Smart Panel House code: 1: closed, 2: closed, 3: closed, 4: closed</p>
<p>WS101_TX Dip-Switch</p>		<p>4-Button Key Fob Remote House code: 1: closed, 2: closed, 3: closed, 4: closed (To "ON" position)</p>
<p>WS102 Jumper</p>		<p>Door/Window Magnetic Sensor House code: 1: closed, 2: closed, 3: closed, 4: closed</p>
<p>WS103 Jumper</p>		<p>Motion Sensor House code: 1: closed, 2: closed, 3: closed, 4: closed</p>

Step 2: Change the default settings of the Sensors

<p>Zone Code</p>		<ul style="list-style-type: none"> <li>- Determinate the location of the Sensor in your home</li> <li>- Pull out the Jumper and reassign it to the target zone (zones 1 to 8)</li> <li>- Replace and screw on the cover to complete the setting change.</li> </ul>
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## Section 5 - Troubleshooting

### 5.1 FQA

Q.1: What is the best way to set up my system? Where should I put my Smart Panel and the sensors?

A.1: We recommend that you take some time in advance to think about the placement of the Smart Panel and Sensors. The best location for the Smart Panel is usually by the main entry/exit point, in a hallway, or in another central location in your home. The Smart Panel must be plugged into a power socket, which may dictate where it can be placed.

Please note that the alarm is pre-programmed with default settings, allowing you a pre-determined amount of time to enter (30 seconds) and exit (15 seconds) before the alarm sounds. If the Smart Panel is not near your front door you can either change the default setting to allow more time to enter/exit your home or, alternatively, use the Key Fob to turn the system on and off.

Q.2: How many Sensors can the Smart Panel support?

A.2: An unlimited number of Sensors can be supported by the system; you can add the 'Optional Sensors' to different zones in your house as you see fit.

Q.3: What wireless range should I expect from Sensors?

A.3: The range will vary depending on the type of structure; however, in an open space, the Sensors should be capable of transmitting a signal up to 150 meters from the Smart Panel.

Q.4: How do I attach my Sensors?

A.4: Adhesive tape and screws are provided for the purpose of securely mounting these items. Please refer to the User Guide for more information about mounting the Smart Panel and the Wireless Sensors.

Q.5: Do I have to programme the Smart Panel?

A.5: The Wire-Free Home Protection System WS100S is designed for easy self-installation. This means that the wireless Sensors are in a default setting already registered to the Smart Panel and will therefore function immediately after the Sensors are powered up. If you choose to buy additional accessories, these will need to be added to your System using the easy to follow instructions.

**Note:** We recommend that you install the System using the default settings to ensure that your product functions properly. Once you are familiar with the system you can change the settings to suit your needs.

Q.6: Can I still use the same System if I move?

A.6: The Wire-Free Home Protection System WS100S is completely portable. If you move, you can remove your Smart Panel and wireless accessories and re-install them in your new property.

Q.7: What if I forget my PIN?

A.7: If you forget your PIN, you may press the "Reset" button inside the battery compartment and the PIN will be reset to the factory default PIN 1234.

Q.8: Why does my Motion Sensor not respond to movement?

A.8: Motion Sensor are very sensitive so to preserve battery life the Sensor will go to "Sleep" after an event has been identified and reported to the panel. This "Sleep" period lasts 3 minutes, after which, if no activity is detected, the Motion Sensor will again become active and ready to detect other events.

Q.9: Why does my Motion Sensor keep generating false alarms?

A.9: If you have a pet, make sure they have not triggered the system. Remember, sensitivity to pets increases in certain circumstances e.g. the nearer the pet to the Sensor.

## 5.2 Troubleshooting

### AC Power Failure:

This may occur if your security system is accidentally unplugged or if there has been an AC power outage. If a full power failure occurs, please contact your electric company to find out the source of the problem. The backup battery will continue to run the system for approximately 6 hours.

### System Battery Failure:

This may occur if the emergency backup battery has been drained and needs to be replaced. If AC power is not restored, the Low Battery symbol will flash indicating that the Smart Panel backup battery is running low. The back up battery should be replaced once the low battery symbol appears.

### Sensor Failure:

This may occur if a sensor is not communicating with the Smart Panel. It is necessary for you to ensure the House Security code Dipswitch and Jumpers of the Sensors are set correctly to the Smart Panel.

## 5.3 Alarm System Limitations

Even the most advanced alarm systems cannot guarantee 100% protection against burglary or environmental problems. All alarm systems are subject to possible compromise or failure-to-warn for a variety of reasons.

Please note that you may encounter problems with your System if:

- The Sensors are not placed within hearing range of persons sleeping or remote parts of the premises.
- The Sensors are placed behind doors or other obstacles.
- Intruders gain access through unprotected points of entry (where sensors are not located).
- Intruders have the technical means of bypassing, jamming, or disconnecting all or part of the system.
- The power to the sensors is inadequate or disconnected.
  
- The Sensors are not located in proper environmental/temperature conditions i.e. too close to a heat source.
- \* Inadequate maintenance is the most common cause of alarm failure; therefore, test your system at least once per week to be sure the Sensors and sirens are working properly.
- \* Although having an alarm system may make you eligible for reduced insurance premiums, the system is no substitute for insurance.

**WARNING: Security system devices cannot compensate for loss of life or property.**

## Section 6 – General Information

### 6.1 Product Information

Wireless systems are reliable and tested to high standards; however, it is important to consider that there are some limitations due to their transmitting power and range:

- Receivers may be blocked by radio signals occurring on or near operating frequencies, regardless of the code selected.
- A receiver can only respond to one transmitted signal at a time.
- Wireless equipment should be tested regularly to determine whether there are sources of interference and to protect against faults.

## 6.2 Specifications

### 6.2.1 Smart Panel WS101

Power source:	9V Alkaline battery x1pc
Sensor Numbers:	Unlimited
House code:	4 Jumpers
Operating Frequencies:	433.92MHz +/-0.5MHz

### 6.2.2 4-Button Key Fob Remote WS101TX

Power source:	12V Alkaline battery x 1pc
RF Working transmission frequency:	433.92MHz +/-0.5MHz
Transmission power:	> -45dBm(@12VDC, 1foot on the Lab table)
Buttons:	"ARM", "Home", "Alert", "OFF"; Panic function: "Home" + "Alert"
House code:	4 Jumpers
Wireless Range to Smart Panel:	>50M

### 6.2.3 Door/Window Magnetic Sensor WS102

Power source:	"AAA" Alkaline battery 1.5V x 2pcs
RF Working transmission frequency:	433.92MHz +/-0.5MHz
Transmission power:	> -28dBm(@3VDC, 1foot on the Lab table)
Battery low-level indicator:	2.3V +/-0.15V
LED Flashing:	1Hz +/-0.2Hz
Magnet sensor Gap activated:	>11mm
House code:	4 Jumpers
Zone code:	Pin header: 8 pin
Wireless Range to Smart Panel:	>150M

### 6.2.4 Motion Sensor WS103

Power source:	9V Alkaline battery x1pc
RF Working transmission frequency:	433.92MHz +/-0.5MHz
Transmission power:	> -18dBm(@9VDC, 1foot on the Lab table)
Battery low-level indicator:	7V +/-0.35V
LED Flashing:	1Hz +/-0.2Hz
PIR Detection angle:	>110 Degree (@9VDC)
PIR Detection Range:	"H": > 15M "M": >6M "L": > 4M
PIR retrigger delay:	180s +/-30s (@9VDC)
Operating current:	< 0.1mA
House code:	4 Jumpers
Zone code:	Pin header: 8 pin
Wireless Range to Smart Panel:	>150M

## **FCC WARNING**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for and radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.