CONTENTS

1. INTRODUCTION

This Wireless Security System represents a major improvement in protection for your home and property. The use of Wireless Detectors provides an easy and convenient method of installation and operation and allows the use of as many sensors as required.

The system operates under microprocessor control and boasts a number of programmable features.   While it is possible to easily customize the programmable features, your unit has been pre-programmed to suit the majority of applications thereby avoiding the need to re-program the functions.
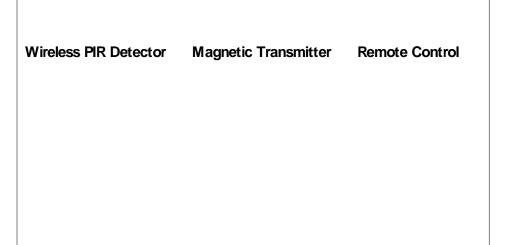
Your Wireless Security System uses a Very High Frequency (VHF) transmission signal that has been specially allocated to Home Security Systems. It uses this frequency as a medium to transmit digital data information from the system detectors to the Control Panel. This type of digital information is unique to this system and is generated by custom digital circuitry.

The day to day use of other common radio transmitting devices such as cellular phones, intercoms, and radios will not affect the normal operation of your security system.

This manual will guide you through the installation of the entire system with clear step-by-step guides and advice on how to expand the system to cover every room in your home.   If, however, you experience any difficulty, refer to the section 11. Your Questions Answered of this manual or call our customer service line.

2. ILLUSTRATION & DESCRIPTION (Fig. 1)

Control Panel

Wireless PIR Detector   Magnetic Transmitter   Remote Control

■ CONTROL PANEL

1. PANIC BUTTON
Press only in an emergency.   Activates built-in & external sirens instantly.

2. S BUTTON
Used to arm, disarm & part arm the system.

3. M BUTTON
Used only when changing the keypad security code.

4. PROG. & SAVE BUTTON
Used when programming the system memory.

5. BAT. C BUTTON
Used when changing detector batteries.

6. POWER / BAT. INDICATOR

Indicates that the AC power is connected or flashes simultaneously with the Zone indicator to identify a detector in low battery.

7. ARM / P.ARM INDICATOR

Indicates when the system is in Arm mode or Part Arm mode.

8. Rx/MONITOR INDICATOR

Indicates reception from a detector and interference detection.

9. PA (PANIC)/TAMPER INDICATOR

Indicates that a Tamper switch has been activated or a Panic button has been pressed. i

10. ZONE 1 - 6 INDICATOR

At normal operation, when a detector has been activated, the Zone indicator will illuminate for 2 seconds in Disarm mode, servicing as a monitor function; and in Arm mode, the indicator will remain on until the system is re-armed, serving as a system memory function.

11. EXPANSION CONNECTOR

For external siren, strobe and auto dialer.

12. FUSE: 1A/1.25 A

13. TAMPER SWITCH

Designed to protect the rear access cover from removal.   When removed, the sirens will sound instantly.

14. AC ADAPTER INPUT JACK

15. SITE CODE DIP SWITCHES

16. BATTERY COMPARTMENT

Holds 1 pc of sealed lead-acid Rechargeable Battery (12V/1.2A).

17. TAMPER SWITCH

To protect the control panel cover from removal.   When removed, the sirens will sound instantly.

18. CABLE ACCESS ROUTE

Allows cable access into the back of the control panel.

■ WIRELESS PIR DETECTOR

1. PIR SENSOR & RED LED

To detect movement within its protected area. (LED operates in Test mode only)

■ MAGNETIC TRANSMITTER

1. LED INDICATOR

Indicates that a signal is being sent.

2. MAGNETIC DOOR/WINDOW SENSOR

To detect the opening of doors or windows.

■ REMOTE CONTROL

1. ON/OFF BUTTON

Used to Arm or Disarm the system.

2. PANIC BUTTON

To instantly trigger the sirens during an emergency.

3. LED INDICATOR

Indicates that signal has been sent and the battery is still working.

SYSTEM DETAILS

- **REMOTE CONTROL & KEYPAD OPERATION**
  It is possible to operate the system via the Control panel keypad, Remote control
  or an accessory Keypad unit

- **PANIC FEATURE**
  A remote panic feature enables sirens to sound instantly during an emergency

- **FULL TAMPER PROTECTION**
  All detector covers and the control panel rear cover are prevented from deliberate removal without first entering the special 'Battery Change command'

- **COMPATIBLE WITH ANY NUMBER OF ADDITIONAL DETECTORS**
  You can add any number of detectors to each zone

- **AUDIBLE ENTRY/EXIT COUNTDOWN WARNING**
  A warning tone is given upon arming reminding you of imminent siren activation if the property is not vacated during the exit period. During initial entry to the property you are also reminded to disarm the control panel with an identical warning tone.

- **ENTRY/EXIT ZONE (ZONE 1)**
  This zone is used to protect the main entrance and offers the user a period of time to enter and exit the home without triggering the system and is adjustable between 10 and 99 seconds.

- **INSTANT ACTIVATION ZONES WITH EXIT DEFAULT & ENTRY ZONE FOLLOW ON**
  Zones 3 to 6 will activate the system instantly except zone 2 if zone 1 is activated first.

- **PART ARM (HOME) FEATURE FOR SELECTED DETECTORS**
  Arms the system but omits detectors set to zones 4 and 5

- **PROGRAMMABLE SIREN DURATION**
  The siren duration refers to both the Internal Siren and any External Siren or Siren/Strobe, if connected.   It is limited to a maximum adjustable period of 20 minutes to comply with legal requirements in certain areas.   If the system is activated during Arm mode the system will reset back into the Arm condition after the siren has stopped.

- **PROGRAMMABLE ENTRY/EXIT TIME PERIOD**
  This offers the user a period of time to enter and exit the home without triggering the system and is adjustable between 10 and 99 seconds.   This applies to the Entry/Exit Zone (Zone1) only.

- **LATCHING STROBE OUTPUT FOR WIRED STROBE UNIT**
  If the system is allowed to sound its sirens for the programmed siren duration period the strobe can continue until the system is disarmed.

- **LED MEMORY FUNCTION TO SHOW ACTIVATED ZONE**
  The Arm & Part Arm indicators will remain lit with the zone indicators to indicate the system was activated when last set into Arm.

- **FREQUENCY CODE COMBINATIONS**
  There are 512 different frequency code combinations referred to as the site code.

- **BATTERY CHANGE MODE FOR SERVICING AND DETECTOR BATTERY REPLACEMENT**
  Disables the tamper switches and allows detector covers to be removed to replace batteries without triggering system.

- **MAINS POWER FAILURE WARNING**
  In the event the mains power fails the power indicator will extinguish but the battery back up will maintain power for up to 24 hours.

- **LOW DETECTOR BATTERY WARNING**
  The Low Battery indicator will flash alternately with the Zone indicator to indicate a low battery in a detector operating on that zone

- **RX RECEPTION LEVEL/CHANNEL MONITOR INDICATION**
  A singular momentary flash indicates a poor reception level indication from detectors. Multiple flashing or prolonged illumination for 1/2 second indicates a good reception level. Interference present on the frequency channel will cause the Rx LED to illuminate. If the jamming circuitry has been activated the LED will remain permanently illuminated.

- **PROGRAMMABLE JAMMING DETECTION CIRCUITRY**
  Provides an early indication of possible interference present on the frequency channel. Can be programmed to activate sirens in the event of prolonged jamming.   We recommend you set this to the 'on' position provided the Rx light does not remain constantly lit during normal operation.

- **PROGRAMMABLE JAMMING DURATION 'PATENT PENDING'**
  Unique to these systems this function allows the user to set the period malicious interference is allowed to affect the day to day operation.   We recommend this is set to 15 seconds.

- **AUTOMATIC NOISE LEVEL SELF TEST**
  Following initial connection to the power the interference detection circuitry will measure the background noise to avoid false triggering of the Jamming detection circuitry

- **PROGRAMMABLE REMOTE CONTROL 'DISARM' DISABLE FUNCTION**
  When switched on - prevents the system from being disarmed via the transmitted Disarm radio frequency code when the sirens have sounded. Disarm is only possible via the control panel keypad code

3. PLANNING YOUR INSTALLATION

Before proceeding with any part of the installation you must give very careful consideration to the location of detectors, the control panel and external siren unit. It would prove to be extremely useful to sketch a plan of your property and identify the optimum location of each component of the system as well as any additional detectors that may be needed.

The base system is designed to protect a small property. If your home consists of 4 or more rooms you will find it difficult to protect the entire property effectively. The use of additional detectors is strongly recommended in most homes. For example, a typical two-story home with four rooms on each level should have at least 4 PIR Motion Detectors and 3 MDT's.

The Entry/Exit Delay feature works in Zone 1 only.   Zone 1 should be reserved for doors used for normal access to the home. Other zones are triggered instantly when intrusion is detected.   No detectors set to Zone 4 and Zone 5 will activate the system when set to the Part Arm (Home) Mode. This is ideal for protecting bedrooms, hallways, etc. so your family can enter these areas by during the night without triggering the system.

NOTE It is possible to operate any number of detectors in each Zone.

Fig. 2 is a plan showing this type of dwelling and how best to position the detectors. The Control Panel should be positioned at a center point between detectors for optimum reception performance.

Fig. 2

The outer circles show the typical reception coverage from the control panel and all detectors should be placed with in the circled areas.

CONTROL PANEL

The optimum transmitting range of your detectors is dependent upon the location

of your Control Panel and the number of walls between it and the detectors. The Control Panel should be located at a central point In the building thereby ensuring easy access for operating the system via the Keypad on a routine basis. Do not permanently affix the Control Panel to a wall until you are satisfied that it is working satisfactorily with all detectors.

The location you choose must be close to the normal access route in your home and within easy reach of a mains power outlet. Under no circumstances should you attempt to extend the cable from the Adapter Unit.

EXTERNAL SIREN UNIT

If your system includes this unit you should choose a location for the External Siren that is out of reach and clearly visible. Use the screws provided to affix the unit to the wall.

> **NOTE** Avoid running the alarm cable along the surface of any external wall or close to main power cables. If the cable is run under carpets please avoid possible damage from carpet nails.

PIR DETECTOR (Passive Infra-Red Detector)

Choose the room(s) in which you wish to use your PIR Detector(s) and select a location within the room that is as close as possible to the Control Panel. Avoid aiming the sensor directly at heat sources such as radiators, ovens or stoves, fireplaces, etc. The PIR Detector cannot "see" through objects such as glass windows and curtains. Animals may be detected by the sensor so choose its location accordingly. The ideal height to mount your detector is about 6 1/2 - 7 feet above the floor. The ball & socket mounting bracket can be used to position the detector at an optimum angle to provide the best detection coverage.

The PIR movement detector has a detecting coverage of 12 meters in a 110 degree arc on 3 layers.

> **NOTE** Avoid the installation of PIR Detectors that result in one area of the property being protected or covered by 2 different sensors. For example, do not install 2 PIR Detectors in one room with overlapping coverage areas.

MDTs (Magnetic Door/window Transmitter)

The MDT units can be used in a number of different ways. The most popular is to protect doors or windows. They can also be used to protect a drawer or any other enclosed structure where valuables might be kept.

MDT units are supplied ready to use as a door or window protector. It is important to first identity the most vulnerable doors and windows in the house and protect each one with an MDT unit.

Fig 4

PREPARING THE SYSTEM FOR INSTALLATION

Setting the Site Code (DIP Switches 1 to 9)

The site code is set using the first 9 DIP switches in all your Wireless Detectors, together with the 9 DIP switches in your Remote Control Fob and Control Panel. The site code MUST be the same in all devices and should be changed from the original setting as supplied. It sets your communication ID code, determining the transmitting frequency on which your detectors operate thereby avoiding interference from similar systems operating nearby.

Fig. 5 below shows a typical setting for the site code.

When you have chosen a site code, you **MUST** set it identically in **ALL** your Wireless Detectors, Control Panel, and Remote Control.

Setting the Wireless detectors to specific Zones (DIP Switches 10 to 12)

In each Wireless Detector there is a 12 DIP switch bank. The first 9 DIP switches are used for setting the Site Code as explained above. DIP Switches 10-12 are set in various combinations of ON and OFF to determine in which Zone the detector will operate. In this way, different areas of the home or different types of detectors can be assigned to a specific Zone.

> **NOTE** It is important to adjust the Zone Codes from the original factory settings.

ZONE CODE SWITCH SETTING (Fig. 6)

DIP SWITCH / ZONE	ZONE 1 ENTRY/EXIT	ZONE 2 INSTANT	ZONE 3 INSTANT	ZONE 4 INSTANT	ZONE 5 INSTANT	ZONE 6 24 HR

10	ON	OFF	ON	OFF	ON	OFF
11	OFF	ON	ON	OFF	OFF	ON
12	OFF	OFF	OFF	ON	ON	ON
ZONE CODE SETTINGS						

* The table above shows the correct switch settings inside the detectors

* The above figure shows how switches must be set to the various zones in the detectors.

*You would normally set your Magnetic Door Transmitter (MDT) to zone 1 as this is the only zone that allows sufficient time to disarm the system when entering the building. Zone 2 to 5 are Instant Zone except Zone 2 if Zone 1 is activated first

ACTIVE ZONES ✖ = NOT ACTIVE   ✓ = ACTIVE

ZONE INDICATOR MODE	ZONE 1 ENTRY/ EXIT	ZONE 2 INSTANT	ZONE 3 INSTANT	ZONE 4 INSTANT	ZONE 5 INSTANT	ZONE 6 24 HR	PANIC TAMPER
Disarm	✖	✖	✖	✖	✖	✓	✓
Arm	✓	✓	✓	✓	✓	✓	✓
P/ARM	✓	✓	✓	✖	✖	✓	✓

*The table above shows which zones are active in the various modes that the system can be set to.

4. INSTALLING & PREPARING THE SYSTEM FOR USE

1) Remote Control

Before use, check that you have set the correct Site Code. Once you have done this the Remote Control is ready to use.

2) PIR Movement Detector Transmitters (PIRs)

Having previously set the Site Code and Zone Code(s) in all your PIR detectors, the PIRs are ready to be fixed to a wall using the screws and wall anchors provided. A number of different knockouts on the back of the PIR case and at least 2 screws must be used to fix each PIR to the wall. Use the ball & socket mounting bracket for easy adjustment of the sensor angle. This will allow you to achieve the precise detection zone you desire. Please follow the following procedure.

Step 1)   Check that the Site and Zone Codes are correct

Step 2)   Check that the switch is set to TEST

Step 3)   Install a 9V alkaline (or lithium) battery (not included); at this point the

red LED will illuminate.

Step 4)   Clip the front of the PIR back on (At this point the LED will flash each

time the PIR detects movement. If the LED remains on refer to the section 11. Your Questions Answered of this manual and check the Tamper Switch.)

NOTE When the battery is first connected to the PIR a 4 minute warming-up period is required.

3) Magnetic Door/Window Contact Transmitters (MDTs)

The MDTs do not have a Test mode. However, verification of correct operation is given in normal day to day operation by opening the door or window protected by the MDT. This causes the red LED on the MDT to flash.

Step 1)   Remove the battery cover and affix the unit to the wall using the 2 screws and anchors provided.
Step 2)   Affix the Magnetic sensor to the door or window.
Step 3)   Install a 9V alkaline (or lithium) battery (not included).
Step 4)   Replace the battery cover and the LED will go out.

Each time you open the door or window the red LED will illuminate for a short period.   This indicates that the unit is transmitting a signal to the Control Panel. If the LED remains on refer to the problem-solving section regarding possible problems with the Tamper Switch.

Fig. 9

Fig. 10

4) Control Panel

Having chosen the best location for the Control Panel follow the procedure below.

Step 1)   Remove the cover on the back of the Control Panel.
Step 2)   Check that the Site Code is correct.
Step 3)   Connect the cable between the Control Panel and the External Siren Unit (if included).   Refer to the Wiring Diagram of this manual.
Step 4)   Install 8 Ni-cad rechargeable AA batteries observing the correct polarity.
Step 5)   Connect the mains adaptor unit to the Control Panel as shown in fig. 11 and plug it into the mains power outlet.   At this point the POWER LED will illuminate.
Step 6)   Replace the battery compartment cover and the access cover to the Control Panel.   Make sure that the Tamper switch is pressed properly.

Fig. 11

> **NOTE**   The use of other types of battery in the Control Panel will cause acid damage and will invalidate your Warranty.

$5.$ 10 QUICK STEPS TO INSTALLATION

Step 1 *All site code must set to the same !*	**Step 2**
remote & detectors control panel	**Zone 1 Zone 2 Zone 3 Zone 4**
Select & set your site code setting for switches 1 to 9	*Now set the zone code switches 10, 11 & 12 in your detectors*
Step 3	**Step 4**
Connect the mains power adapter to the control panel	*Press the 'ON' button on the remote and the siren will sound. Press again to stop the siren.*
Step 5	**Step 6**
Enter 1 2 3 4 BAT.C on the keypad then install the detector batteries	*Make sure the PIR switch is set to Test & ensure covers are re-fitted*

Step 7

Place the detectors in the position you require.   Activate all the detectors to confirm correct operation, check the zone and Rx light correctly

Step 8	**Step 9**
Remove the mains power, fit the external siren unit (if supplied)	*Now fit the battery back up, re-connect the mains power.*
Step 10	
Set your PIR movement detectors back to the Normal mode & ensure covers both on control panel and detectors are re-fitted	*All that remains is to setup your own keypad code and other functions as required.. Refer to page10*

6. OPERATING THE SYSTEM

Once you are familiar with the day to day operation of the system you must change your Keypad Security Code which has been pre-programmed to **1 2 3 4.** All other programmable functions have been pre-programmed to suit the vast majority of installations, therefore, it is not necessary to make any further

programming amendments.

How to Arm the System with the Keypad

1. Press the 0 button
2. Press the S button

e.g.

* You would notice the Arm indicator will illuminate and the countdown warning
   tone will sound at the same time.

How to Disarm the System with the Keypad

The Keypad Security Code has been factory pre set to **1 2 3 4.**

1. Enter your Keypad Security Code 1 2 3 4
2. Press the S button.

e.g.

* The Arm or P/Arm indicator will extinguish.

How to Arm the System into P/ARM mode

This function simply Arms the Control Panel but omits any detectors that you
have set to Zone 4 & 5 and is ideal for using at night to protect areas set to other
zones only. The system can only be set into Part Arm (Home) Mode using your
Keypad Security Code. However it can be disarmed with your Remote Control or
via the Keypad.

1. Press the 9 button
2. Press the S button

e.g.

* You would notice the P/Arm indicator will illuminate and the countdown warning
   tone will sound at the same time..

How to Operate the System with the Remote Control

The Remote Control offers the user the following functions.

 (1) ON (Arming)   (2) OFF (Disarming)   (3) PANIC (Instant Alarming)

To operate simply press the button you choose. The Control Panel will emit **1
chirp for ARM and 3 chirps for DISARM.** If you press the Panic Button the
siren will sound immediately.   It is not possible to arm the control panel into Part

Arm (Home) Mode by using the Remote Control or Remote Keypad. If the
'Remote Disarm Disable' is On the system will not disarm from the Remote
Control. Disarming can only be accomplished via the Keypad if the siren has
been activated.

Alarm Memory

If the system has been triggered at any time during the Armed period, the Arm
LED and the applicable Zone LED will remain illuminated. If you return home and
find this condition, use extreme caution and check the premises thoroughly. To
reset the memory disarm the system, re-arm, and disarm again. The Arm LED
and the applicable Zone LED will extinguish.

7. PROGRAMMING THE SYSTEM

When altering the system memory you should be extremely careful pressing the
Keypad. In order to perform this. Following the successful recognition of a
programming entry the siren will emit 1 chirp. If however, your entry was
incorrect the siren will emit 3 beeps and ignore the entry. Repeat your last step if
this occurs.

Example Programming Sequence

This example shows how to change the Keypad Security Code

The Factory setting is 1 2 3 4. The new code must also be 4 digits.   To program
a new code or to change existing code to a new code please proceed as follows.

1. Enter the existing code	**1 2 3 4**
2. Press the command code	**M 0**
3. Enter the new security code you require	**? ? ? ?**
4. Press the [M] button	**M**

For example: You want to set up your new code as 5 8 5 0 from the factory
setting

CHANGING YOUR KEYPAD CODE			
FUNCTION	FACTORY DEFAULT	SYSTEM SETTING PROCEDURE	REMARKS
Keypad Code	1 2 3 4	1 2 3 4 M 0 ? ? ? ? M	? ? ? ? = Your new code

			If you are changing your code use your old code instead of the factory default 1234

PROGRAMMING			
It is not necessary to make any changes in this section for the majority of installations.			
FUNCTION	FACTORY DEFAULT	SYSTEM SETTING PROCEDURE	REMARKS
BAT. C	Off	? ? ? ? BAT. C	Tamper alarm disable for testing, servicing or detector battery changing
Alarm Duration	4 minutes	???? PROG 03 ?? SAVE	??= 01 to 20 minutes
Exit Time	20 Seconds	???? PROG 04 ?? SAVE	??= 10 to 99 seconds
Entry Time	20 Seconds	???? PROG 05 ?? SAVE	??= 10 to 99 seconds
Jamming Duration	30 Seconds	???? PROG 06 ?? SAVE	??= 10 to 99 seconds
True Jamming Status	Off	???? PROG 07 ?? SAVE	??= 01 for On or 00 for Off
Remote Control Disarm Disable	Off	???? PROG 08 ?? SAVE	??= 01 for On or 00 for Off
Door Chime(Zone 2)	Off	???? PROG 09 ?? SAVE	??= 01 for On or 00 for Off

*8.*TESTING

BATTERY CHANGE MODE

Whilst checking the operation of each detector it is possible to confirm reception by setting the control panel to "Battery Change Mode". Each time a detector is activated, the control panel will emit chirp(s) corresponding to the zone that the detector operates on. For example, 2 chirps corresponding to zone 2 verifies a success reception.

    Step 1) Enter 1234 BAT.C on the keypad
    Step 2) Set the PIR detector to Test mode
    Step 3) Install all detector batteries
    Step 4) Activate a PIR detector or open a door/window protected by a MDT
    Step 5) The control panel will emit chirp(s) corresponding to the particular zone

You would notice that the corresponding zone indicator and Rx indicator will illuminate together to verify a success reception.

This feature also provides the following function:

1) Prevents the siren from sounding when a Tamper switch is activated during removal of tamper protected battery covers.

2) Checks specific detectors battery status.
   6 beeps are emitted to indicate a particular detector with a low battery

RX (MONITOR) FUNCTION

During normal day to day operation the Rx indicator will illuminate regardless of the system status when a detector transmission from your system is received. The Rx indicator will light together with the particular detector activated. If the signal level received from a detector is below a safe operating level the indicator will flicker once. If this occurs it will be necessary to reposition that particular detector to a different location thereby improving the signal level to the control panel.

TESTING THE PIR DETECTORS AND MDT UNITS

Provided you have followed the previous section accurately. Setting the system to "Battery Change Mode" and setting all PIR detectors to TEST mode.

Whenever you activate a PIR detector or open a Door/Window protected by a MDT, a digital code is to be transmitted by the detector to the control panel. At this moment the control panel will emit chirp(s) corresponding to the particular zone and the corresponding zone indicator will light for 2 seconds. The Rx indicator will illuminate or flicker as a transmission is received.

If you experience problem at this stage it may be necessary to remove the detector to a different location.

Once you verify the correct operation of the PIR detectors, you must set the detector back into Normal Mode operation. This is illustrated in Fig 8.

IMPORTANT NOTE When the PIR detector is set into the TEST mode using the slide switch shown in Fig. 8 the indicator will flash every 3 to 5 seconds and transmission will take place immediately. When set into NORMAL mode a quiet period of approximate 3 minutes exists between transmissions and the red indicator behind the PIR lens does not illuminate, thereby preserving battery power.

TESTING THE REMOTE CONTROL AND THE EXTERNAL SIREN (IF SUPPLIED)

By pressing the ON/OFF button once on the Remote Control you should hear a chirp from the Control Panel. 1 chirp for ON (Arm) and 3 for OFF (Disarm). This enables the system to be entered into and out of Full Arm condition only. In Arm condition the Arm Indicator on the Control Panel will illuminate. This confirms the system status. Now press the Panic Button on the Remote Control and the Siren built into the Control Panel and the External Siren (if fitted) will sound. If you have fitted a strobe to the External Siren unit this will flash at the same time.

Now press the ON/OFF (Arm/Disarm) button to stop the Siren sounding.

The Panic button performs the same function as the Tamper switches and activates the 24 Hour Panic/Tamper Zone on your Control Panel, however this function does not work when the Control Panel is first powered up. **During initial power up to the control panel, the system automatically defaults into the Battery Change function.**

PERIODIC TESTING AND MAINTENANCE

Performing periodic test functions is important in order to confirm continual operation of the system whilst at home and when away. We recommend that the system should be tested one month after installation then every 6 months. Please repeat all procedures as described above.

9. CHANGING THE BATTERIES

Setting the control panel into "Battery Change Mode" will prevent the siren from sounding for a default period of 20 minutes or when rearming the system when the Tamper switch is activated during removal of Tamper protected covers.

The Control Panel Back Up Battery

The batteries fitted inside the Control Panel are 1 piece of lead-acid rechargeable battery. Once fitted inside the Control Panel they are kept constantly charged

and should last for 2 years. However, as each year passes the batteries ability to hold charge is reduced and it may be necessary to change the batteries after a period of 2 years in order to maintain a sufficient period of operation in the event of a mains power failure.

> **WARNING**   Other types of battery fitted in the control panel will damage the Control Panel and invalidate your warranty

The Detector Battery

The use of Alkaline batteries in detectors is strongly recommended in order to provide an adequate length of operation. Alkaline batteries installed in the detectors will generally provide an operation life up to 8 months. The newer Lithium batteries are capable of providing up to 3 years of life but are relatively expensive.

When a detector battery is running low a code is transmitted from the detector and the Low Battery indicator on the Control Panel will flash alternately with the Zone indicator. If you are operating more than one detector in that Zone you should change all detector batteries operating in that Zone.

The Low Battery Indicator will not stop flashing until the Control Panel has been armed and then disarmed via the keypad.

Installing A New Battery In The Remote Control

The Remote Control is the only unit supplied with the battery already fitted. A low battery will result in a dramatically reduced range in transmission distance. The battery should last up to 1 years. **When replacing the battery ensure you observe the correct polarity connections.** (Refer to Fig. 7)

10. EXPANDING THE SYSTEM WITH ACCESSORY PRODUCTS

It is possible to add any number of Wireless accessories to the system including:

Remote Controls, PIR Movement Detectors, MDT units, Remote Keypad Units & Smoke Detectors. A Transmission Extender unit can also be added but must be limited to one per system.

The Expansion connector located on the underside of the Control Panel allows you

to connect any of the following wired accessory products:

External Siren Unit, Internal Siren, Auto dialer & Strobe/SAB units. Additional Emergency Panic buttons and wired magnetic Door/Window contacts can be connected to each MDT unit.

The maximum combined output current that can be provided from the Expansion connector is 500mA.   This is sufficient to drive 1 Strobe/Siren and 1 Auto dialer.

CONNECTING A DC SIREN WITH TAMPER SWITCH

If you are not making a connection to the Tamper terminal, you must leave the link connected between GND and Tamper

(When connecting siren may sound until siren cover is refitted.)

CONNECTING TO DC SIREN AND AUTO DIALER (CO-911 ONLY)

NOTE   Auto dialers must not be programmed to call the Emergency services.

NB Always remove the link fitted between GND and Tamper when connecting to the Tamper terminal on

CONNECTING TO EXTERNAL SIREN/STROBE (LD-285 ONLY)

WIRING DIAGRAMS

CONNECTING A DC SIREN WITHOUT TAMPER SWITCH

CONNECTING TO EXTERNAL SIREN/STROBE (LD-285) AND SMOKE DETECTOR (JIC-636AR)

CONNECTING TO DC SIREN WITH TAMPER SWITCH AND SMOKE DETECTOR (JIC-6336/AR)

CONNECTING TO DC SIREN WITHOUT TAMPER SWITCH AND SMOKE DETECTOR (JIC-636AR)

CONNECTING A SMOKE DETECTOR (JIC-636AR ONLY)

CONNECTING TO SIREN (LD285) , SMOKE DETECTOR (JIC-636AR) AND AUTO DIALER (CO-911)

CONNECTING TO EXTERNAL SIREN/STROBE (LD-285) AND AUTO-DIALER (CO-911)

11. YOUR QUESTIONS ANSWERED

Q. WHAT TO DO IF YOU FORGET KEYPAD SECURITY CODE
A. If you forget your Keypad Security code you must perform the Global Reset Function. This restores the memory back to the factory pre-set codes. Perform the following steps:

Step 1) Disconnect the control panel form the mains power supply
Step 2) Remove the Rechargeable Ni-Cad batteries from the Control Panel
Step 3) Wait 5 minutes
Step 4) Reapply the mains power and refit the rechargeable batteries

This procedure will restore all user programmable parameters back to the manufacturers default settings and when the power is re-applied the External Siren (if fitted with an SAB) will stop sounding.

Q. WHEN I WALK IN FRONT OF A PIR MOVEMENT DETECTOR THE SIREN SOUNDS IMMEDIATELY WHEN THE SYSTEM IS IN DISARM MODE.   WHY?
A. You have not set up your zone code correctly on the switch bank inside the detector or you have not fitted the cover back on the detector properly - check the Tamper switch operation.

Q. WHY DO MY BATTERIES ONLY LAST A FEW MONTHS IN THE DETECTORS.
A. Check the battery connections are tight especially if you are using duracell as this make of battery has an unusually narrow positive nipple.
A. Make sure you have not left the switch in the PIR set to TEST mode.

Q. WHY CAN I NOT GET A VERY GOOD RANGE WITH ANY OF MY DETECTORS OR REMOTE CONTROL?
A. The system is designed for use up to 80 meters from the control panel in clear space with low back ground RF noise conditions. The range is also influenced by the number of walls between your detectors and control panel. Try to remain with in 18 meters of the control panel and **do not install the control panel close to metal objects or inside cupboards.**

Q. WHY DO MY DETECTORS NOT RESPOND AT THE CONTROL PANEL?
A. You have not set the correct Site code. Check your switches 1 to 9 in the control panel match your detectors.
A. Try moving the switches on & off a few times so as to ensure they make a good contact.

Q. WILL I NEED TO CHANGE THE BATTERIES IN THE CONTROL PANEL?
A. The batteries are Ni-Cad rechargeable and their charge is maintained by the mains power automatically. They will require replacement after approximately 3 years of operation.

Q. WHY DOES THE PIR INDICATOR NOT ILLUMINATE WHEN THE PIR IS SET INTO THE NORMAL MODE?
A. To conserve battery power. But the zone indicator will show on the control panel when the PIR is activated.

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 when it sees movement for long periods of time. It will only wake up when you stop movement for at least 2 minutes.

Q. THE TAMPER CIRCUIT IS ACTIVATED THE MOMENT I ARM THE CONTROL PANEL.

A. This is because the back access cover on the control panel has not been refitted.   Make sure that the string on the tamper is depressed properly. If you have connected a wire to the tamper terminal on the expansion connector then you have not fitted the cover onto any external unit such as a siren & strobe.

WARNING

The ingress of dust, damage to cases, printed circuit boards etc. will invalidate your warranty. Batteries are exempt from any warranty.

This system is designed for indoor use only.

You may be required to advise your local Police department of the installation of this equipment.

Only basic tools are required to install this product but if you use electrical installation tools you must follow the safety procedures recommended by their manufacturer. Always use an RCD breaker with such tools. Use eye protection when hammering and drilling. Please do not risk your safety during the installation of this product. If you are unfamiliar with the use of tools and ladders please consult an Electrician or other competent person.

QUICK PROGRAMMING GUIDE

- Instant activation zones with exit default & follow on
- Part arm feature for selected detectors
- Programmable siren duration
- Programmable entry time period
- Programmable exit time period
- Latching strobe output for wired strobe unit
- LED memory function to show activated zone
- Audible entry/exit countdown warning
- Audible zone identification function for detector testing
- Battery change mode for servicing and detector battery replacement
- Wireless SolarGuard external siren & strobe compatibility
- Wireless remote keypad compatibility
- Wireless smoke detector compatibility
- Auto telephone dialer compatible
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SPECIFICATIONS

Standard Specifications

Standard Specifications

- Remote Control & keypad operation
- 7 zone (6 Zone plus Tamper Zone) operation
- Panic feature
- Full tamper protection
- Compatible with any number of additional detectors
- Long range PIR movement detectors
- Control panel with built-in loud siren