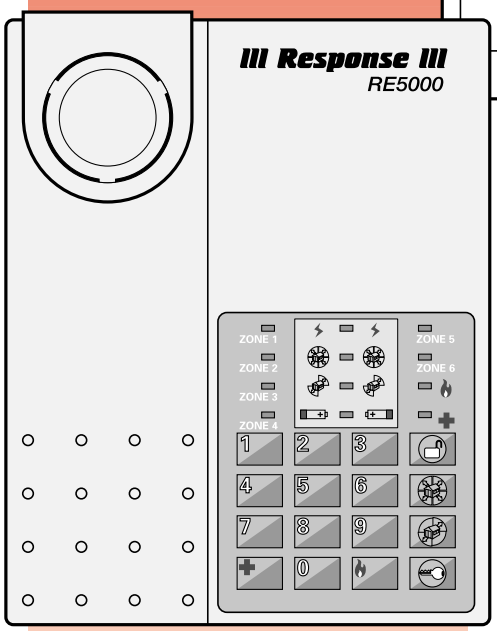
RE5000S

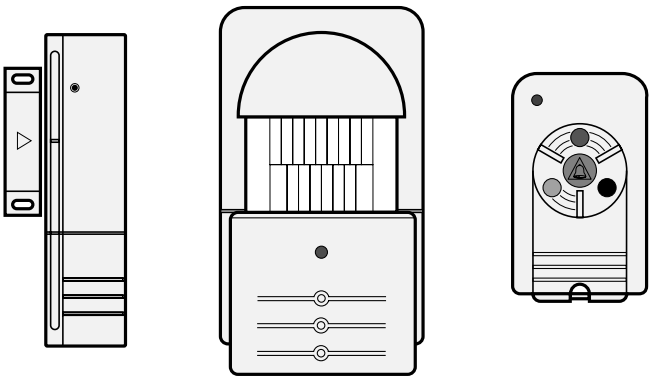
professional

Solar Wireless Intruder Alarm System

includes:

- 1 x Solar Wireless Siren and Strobe
- 1 x Control Unit
- 1 x Passive Infra Red Detector
- 1 x Magnetic Contact Detector
- 1 x Remote Control
- 1 x Power Supply





INSTALLATION & OPERATING HANDBOOK

PROFESSIONAL

alarm systems

FAST PROTECTION

Response
ELECTRONICS PLC

FOREWORD

Your decision to purchase an RE5000S Remote Control Wireless Intruder Alarm System represents a major and sensible step towards total protection of your premises, its contents and its occupants.

The RE5000S Wireless Intruder Alarm System complies with the requirements of BS 6799 Class 3 for Wire-free Intruder Alarm Systems. All components are designed and manufactured to provide a high standard of security protection and long, reliable service. In addition, the radio devices are tested and approved to ensure that they will not interfere with other radio equipment. The equipment complies with the Radio & Telecommunications Terminal Equipment Directive 1999/5/EC and with EC Directive 89/336/EC in respect of Electromagnetic Compatibility for a Domestic and Light Commercial Environment. No radio license is required, however the approved radio frequency is not protected from interference and may be withdrawn from use at any time subject to the DTI giving users an appropriate notice period.

The RE5000S Wireless Intruder Alarm System is purposely designed for ease of installation using only conventional tools. However, it is essential that the installer reads and fully understands the advice and procedures contained in this manual before proceeding with the installation.

During installation, it is important that the installer follows the procedures in sequence.

All components with the exception of the external Solar Wireless Siren & Strobe are suitable for indoor use only.

This manual should be retained by the user for future reference.

Tools and Equipment Required:
150mm flat blade screwdriver
150mm cross-head screwdriver
Hammer
Drill and 4mm and 5mm masonry drill bits

SAFETY WARNINGS

Before proceeding with the installation, please note the following safety warnings:

1. Always follow the manufacturers advice when using power tools; steps; ladders etc. and wear suitable protective equipment (eg. safety goggles) when drilling holes etc.
2. Before drilling holes in walls, check for hidden electricity cables and water pipes. The use of a cable/pipe locator may be advisable if an any doubt.

SYSTEM SECURITY

The system may be operated remotely from one or more Remote Controls, or by entering an Access Code at the control unit keypad. Care should be taken to ensure that your Remote Control Unit(s) are not lost as the finder could Disarm your alarm before you are able to re-code the system.

This system has been designed to both detect intruders and act as a strong deterrent to would-be intruders. However, we recommend that an Intruder Alarm System is always used in conjunction with good physical protection such as security window and door locks.

CONTENTS

INTRODUCTION & OVERVIEW

The RE5000S Alarm System is designed to allow flexibility in configuring and using the system. The Detectors can be set to operate on any one of 6 Zones, to give an instant alarm or a variable timed entry delay. There is no limit to the number of detectors per Zone.

A normally closed, hard-wired Zone input is also available on Zone 6.

Part Arm allows only selected detection Zones to be armed. For example, for night time protection you can 'Arm' the downstairs areas, garage and outbuildings, whilst allowing you free access to the upstairs areas without activating your alarm.

The Control Unit is programmed and operated via its integral keypad. A Main User Access Code allows general operation (Arming/Disarming) and full access to the programming menu, whilst a Second User Access Code allows Arming/Disarming only and may therefore be entrusted to children, neighbours or guests.

Separate wireless zone inputs and wired output facilities are available for Medical Alert and Fire Alarm, and a multicore cable connection is supplied to allow full system status outputs to a security dialler or communicator.

The Control Unit also incorporates a sophisticated Jamming Detection Circuit with Jamming Counter and pre-alarm indication.

A Zoneable Door-Chime, Quick Arm Operation and Walk Test Facilities are also selectable via the Control Unit.

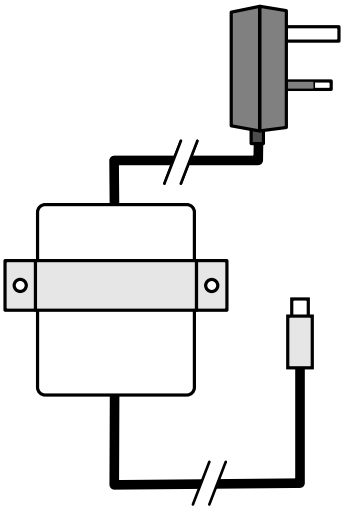
The RE5000S Wireless Intruder Alarm package contains all the components necessary to install a complete Intruder Alarm System within your premises. You can increase your protection by adding additional Wireless Passive Infra Red Detectors and Wireless Magnetic Contact Detectors either at the time of initial installation or at a future date. You may also wish to purchase additional Remote Control Unit(s) for use by other members of your household. Full details of other accessories to extend your system are given on pages 27 and 28.

The items included in your RE5000S package are shown opposite:-

EXTENDING THE RE5000S SYSTEM

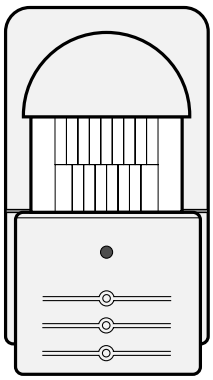
The following additional accessories are available to enhance your system and provide further protection and a higher level of security where required.

Part No.	Description
RE5000P	Wireless Passive Infra Red Detector
RE5000R	Remote Control Unit
RE5000M	Wireless Magnetic Contact Detector
RE5000MHW	Wireless Magnetic Contact Detector with optional hard-wired input facility
RE5000SD	Wireless Smoke Detector
RE5000SS	Additional Solar Wireless Siren & Strobe
RE5000D	Dummy Siren & Strobe
RE5000MP	Medical Alert Pendant
RE5000AD	Security Dialler

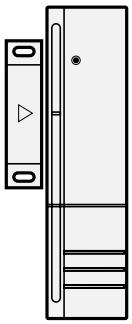


Control Unit in-line Mains adaptor

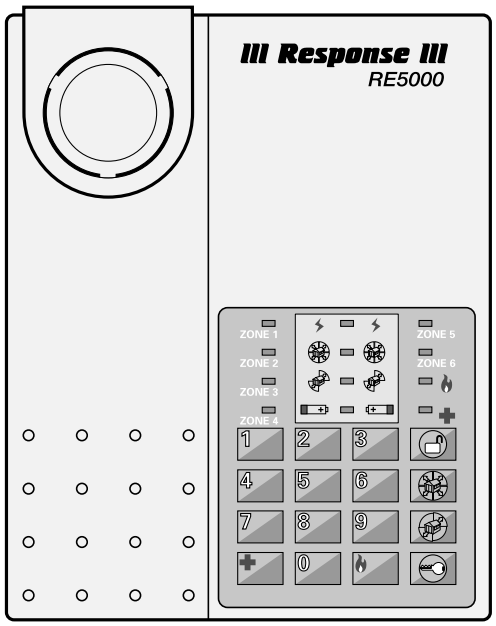
Solar Wireless Siren & Strobe (incorporating rechargeable battery)



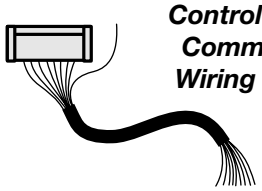
Wireless Passive Infra Red Detector (RE5000P)

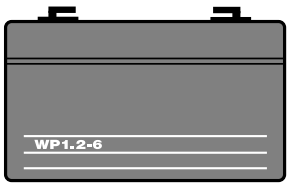


Wireless Standard Magnetic Contact Detector (RE5000M)

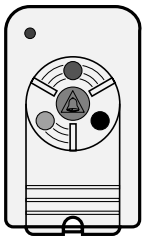


Control Unit with Communicator Wiring Interface





Rechargeable Batteries (fitted in the Control Unit and the Siren & Strobe)



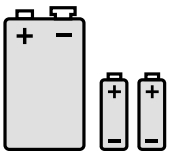
Wireless Remote Control (RE5000R)

Also included:-

Installation and operating manual

All necessary fixings

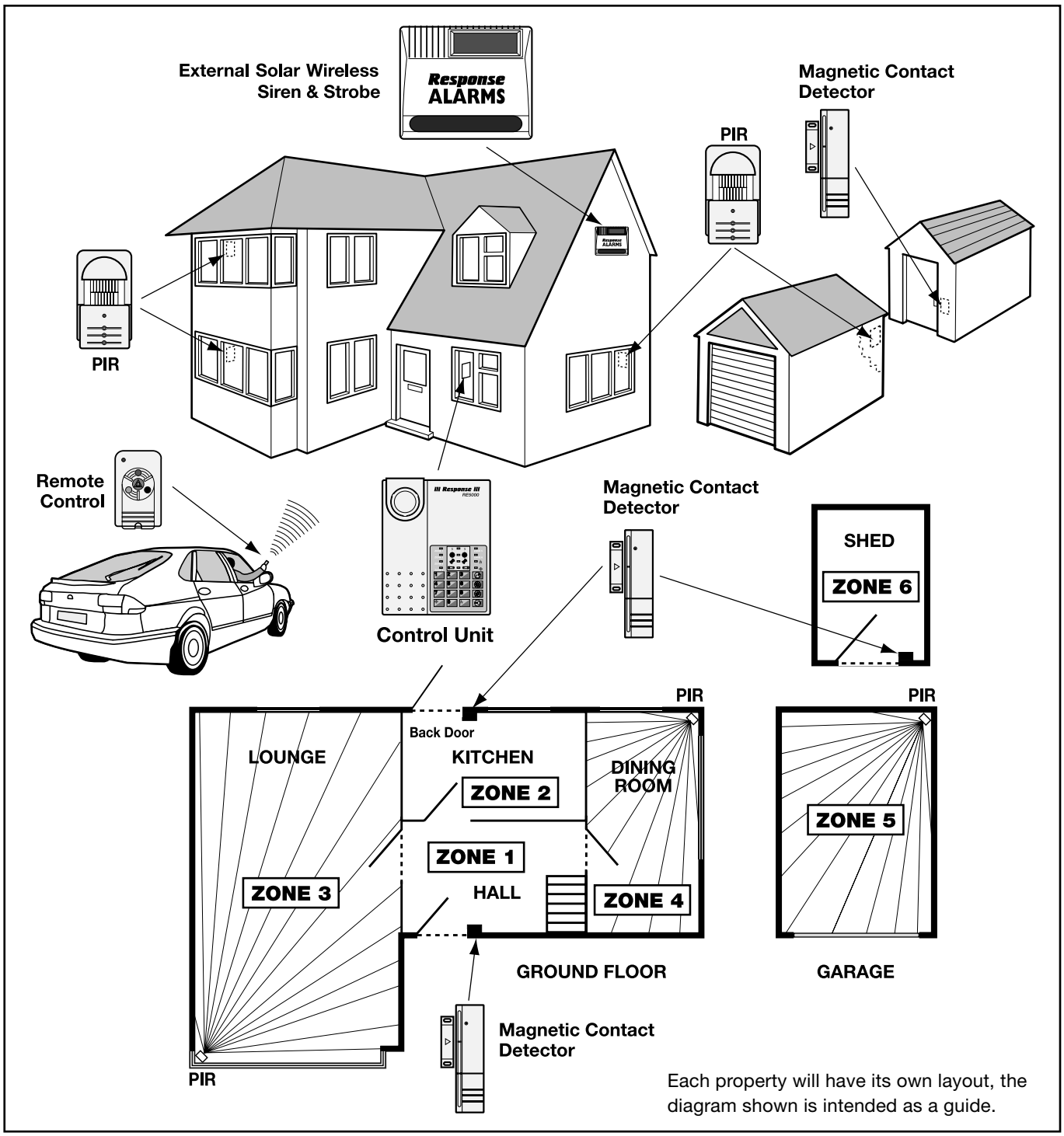
Window warning stickers



Detector and Remote Control Alkaline Batteries

PLANNING AND EXTENDING YOUR WIRELESS ALARM SYSTEM

For even greater protection you can install as many PIR's and Magnetic Contact Detectors as and when you require. The RE5000S Alarm System is designed to give you protection for a two bedroomed house. Just add additional detectors where further protection is needed.



PART ARM

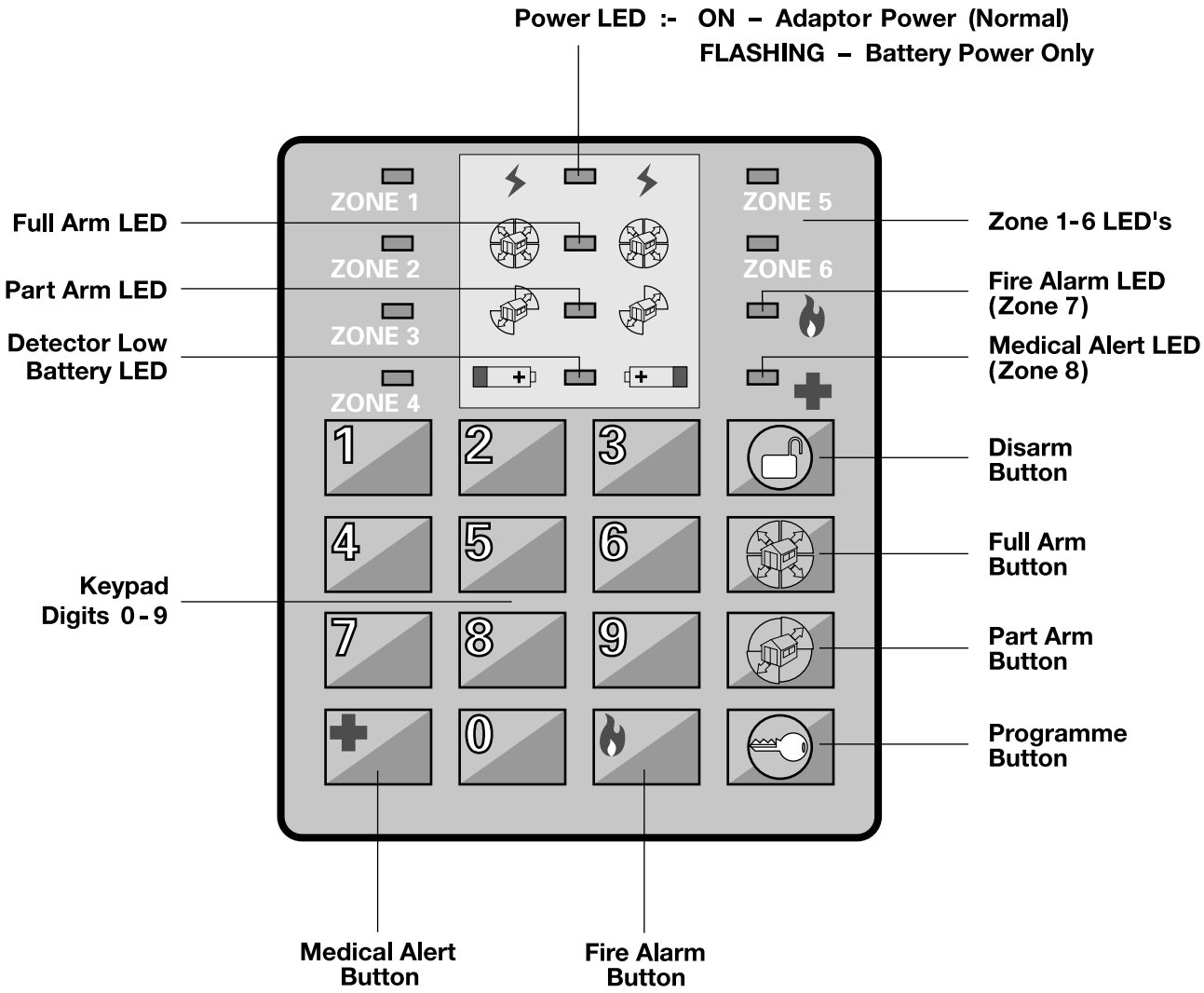
Protect either all of your home or just the areas you choose. For example, for night time protection you can have downstairs plus the garage and shed 'ON' whilst upstairs is 'OFF'. This allows you to occupy upstairs areas without activating your alarm.

PLANNING YOUR INSTALLATION

Before attempting to install your RE5000S Wireless Alarm System it is important to study your security requirements and plan your installation, including Zoning and Entry/Exit routes.

CONTROL UNIT

INDICATORS AND KEYPAD



View of Control Unit Indicators and Keypad

LOCATION

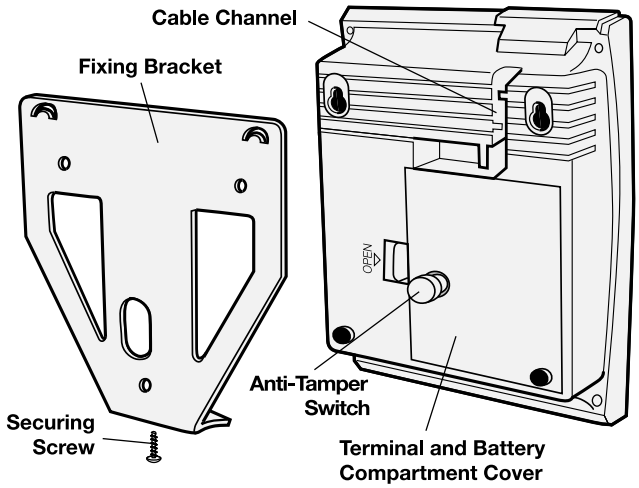
When choosing a suitable location for the Control Unit, the following points should be considered.

1. Ensure that the Control Unit is within a protected area with the system Armed, ie: an intruder cannot reach the Control Unit without opening a protected door or being detected by a movement detector.
2. The position selected must be within reach of a 13A socket, or fused connection unit.

   Note: Ensure that the adaptor will not be removed from the socket or accidentally switched off, when the system is in use.
3. The Control Unit should be close to the entry/exit door but not visible from the door or windows.
4. Do not locate the Control Unit closer than 1 metre to any large metallic object eg: mirrors, radiators, fridge-freezers, etc.
5. Locate the Control Unit in an easily accessible position, between 1.5 and 2 metres above floor level and in a position where it will be seen each day.

INSTALLATION

Remove the fixing bracket securing screw and slide the fixing bracket off of the keyhole slots at the top of the Control Unit. Hold the fixing bracket level in position on the wall and mark the 3 fixing bracket holes on the wall. Drill 3 x 4mm diameter fixing holes; fully insert the plastic wall plugs supplied and secure the bracket to the wall using the three fixing screws.



Rear view of Control Unit/Fixing Bracket

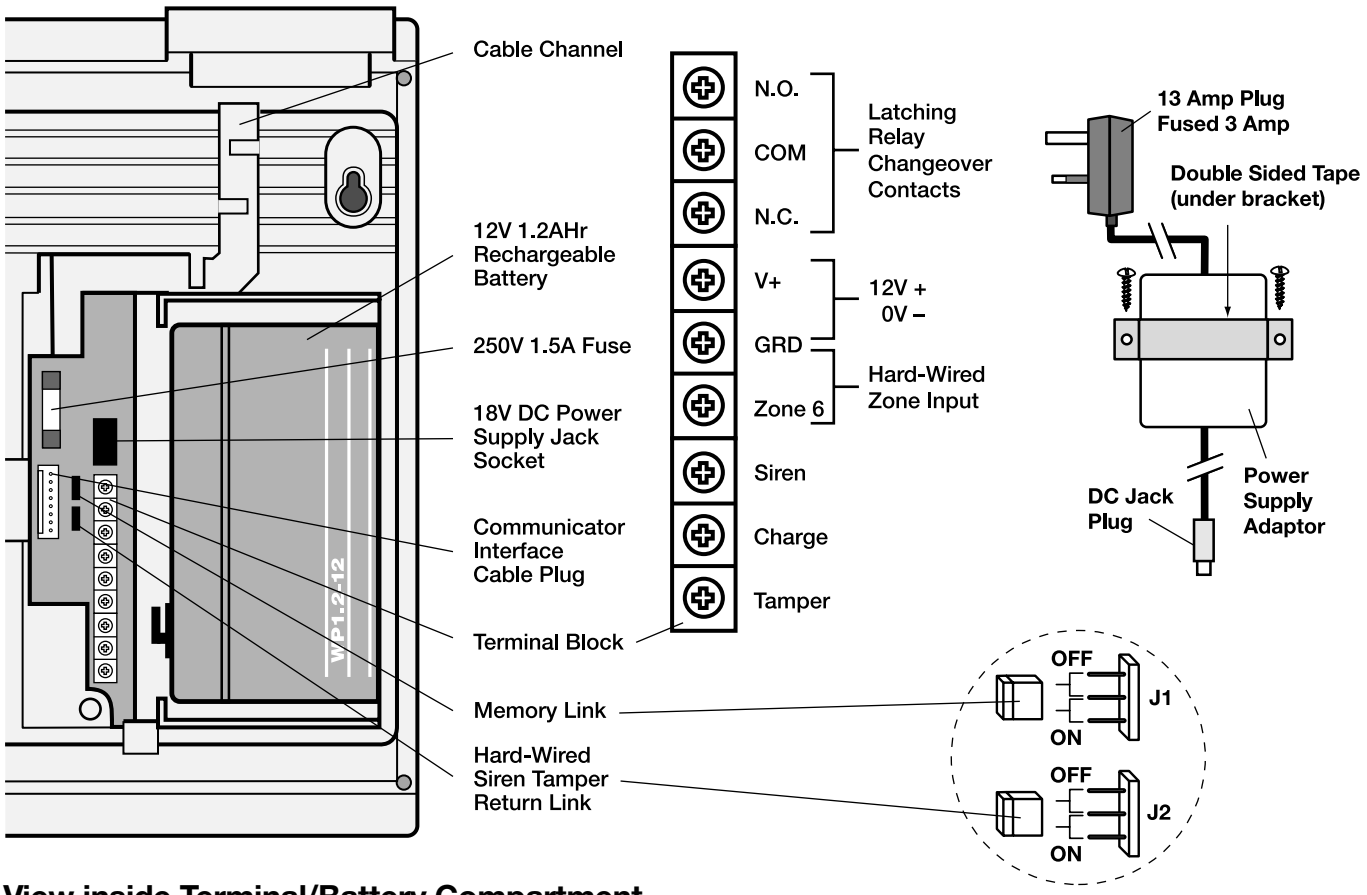
An in-line DC Mains Adaptor and Cable are supplied with the Control Unit. To connect the Mains Adaptor proceed as below:

1. Select a suitable location for the Mains Adaptor (eg: a mains supply cupboard). Using the adaptor fixing bracket as a template, mark and drill 2 x 4mm diameter holes, insert the wall plugs and secure the adaptor to the wall using the fixing bracket and double sided tape.
2. Remove the battery compartment cover and back-up battery. Lead the adaptor DC output cable along the Cable Channel in the rear of the Control Unit and plug the jack plug into the jack socket in the battery compartment.
3. Plug the 13A plug into a local socket. Alternatively, the plug can be removed and the mains lead connected to a fused connection unit (fused 3 amps) as follows:-

   The wires in the mains lead are coloured in accordance with the following code:

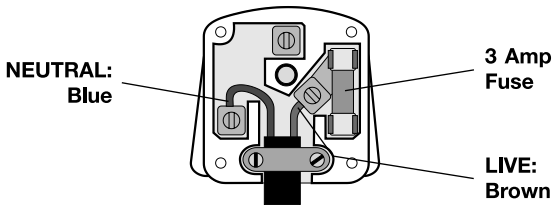
   NEUTRAL = Blue
   LIVE = Brown

   If the colours of the wires in the mains lead do not correspond with the markings identifying



View inside Terminal/Battery Compartment

the terminals on your equipment proceed as follows:



The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Red. The wire coloured blue must be connected to the terminal which is marked with the letter N or coloured Black.

The power supply adaptor is double insulated and does not require an Earth (⏚) connection.

If you use a 13 amp fused connection unit or another plug, a 3 amp BS1362 fuse must be fitted.

MAINS ELECTRICITY CAN KILL. - If you are in any doubt about connecting the Mains Adaptor to your power supply we recommend that you consult a qualified electrician. All works must be carried out in accordance with the IEE Regulations.

4. The green power indicator ⚡ ▭ will illuminate steadily, indicating that the Control Unit is powered from the mains supply. (It is normal for the Mains Adaptor to appear warm to the touch when in use).

The Control Unit incorporates a 'Non Volatile Memory', which will memorise all settings indefinitely even when all power has been removed. To enable this facility to operate, the memory link must be set to the 'ON' position.

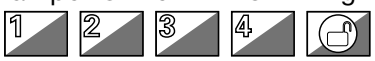
In the event that you wish to revert the Control Unit to factory 'Default' settings, remove all power (mains and back-up battery), set the memory link to 'OFF' and reapply power. In all other circumstances the memory link should be left 'ON' for full system security.

If any hard-wired connections are to be made at the Control Unit (eg: Zone 6 input, Hard-wired Siren, Telephone Dialler/Communicator etc) it is recommended that these are made AFTER the initial installation and programming of the Control Unit.

BACK-UP BATTERY

The Control Unit has provision for a 1.2 Ahr rechargeable Back-up Battery. The purpose of the battery is to supply emergency power to the Control Unit in the event of a failure of the mains supply. The Back-up Battery is capable of providing emergency power to the Control Unit for a period of approx. 8 hours and will automatically recharge on restoration of the supply.

1. To fit the Back-up Battery, connect the battery leads red to red (+) and black to black (-) and place the battery into the battery compartment.
2. In the event of a mains failure the green power indicator will flash, showing that the Control Unit is powered by battery only.
3. Refit the battery compartment cover. Hook the Control Unit onto the backplate keyhole fixings, slide into place and secure using the fixing bracket screw.

Note: If you accidentally trigger the rear anti-tamper switch whilst fitting the control unit enter 

to cancel the alarm.

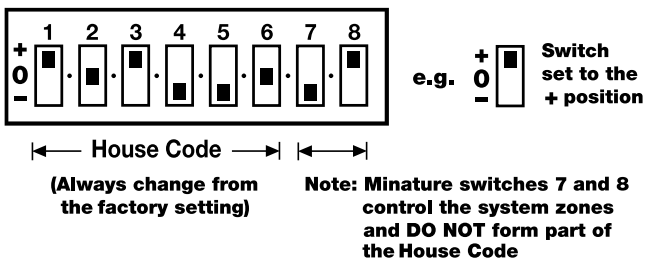
SYSTEM HOUSE CODE

In order to prevent any unauthorised attempt to activate or disarm your system, you must set your system to accept encrypted radio signals only from your own Detector(s) and Remote Control Unit(s). This is done by setting a series of 3 position miniature switches in the Detectors and Remote Control Unit(s) to a special combination ('House Code') selected by yourself, and programming the Control Unit to recognise only this House Code combination.

IMPORTANT

In order for all detectors, Remote Control Unit(s) and accessories to communicate with the Control Unit, it is essential that the same House Code combination is used for all components. (Except the Solar Siren & Strobe and Medical Alert Pendant where fitted).

Inside your Remote Control(s) and Detectors you will find a series of 3 position miniature switches. Your 'House Code' is set by moving each of the first 6 switches (numbered 1-6) to a random sequence of **'+', 'o'** or **'–'** settings.



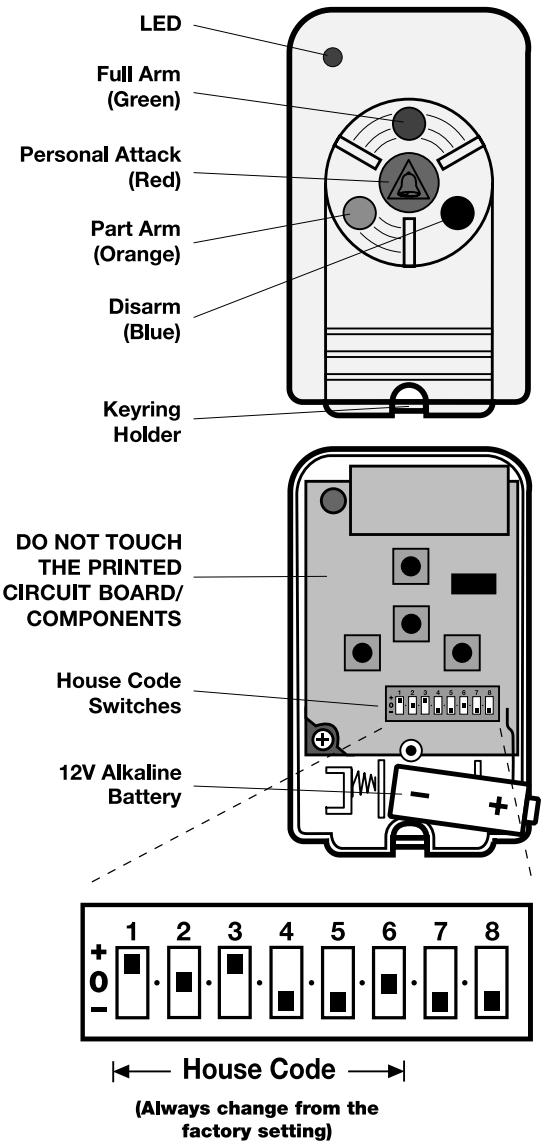
Note: When setting the miniature switches in each item of equipment, ensure that each switch 'clicks' into position, especially in the centre **'o'** position. Use the tip of a ball point pen or a small screw driver to move each switch in turn.

REMOTE CONTROL(S)

One Remote Control Unit is supplied in the standard RE5000S package. However, additional Remote Control Unit(s) can be purchased separately, if required. The Remote Control Unit(s) are used to Arm and Disarm the System.

The Remote Control Unit also incorporates a personal attack button. This sounds the alarm at any time whether the system is Armed or not. Just press and the alarm will sound. If this is activated by mistake you can cancel the alarm by pressing and releasing the "Disarm" button on the Remote Control.

Any number of Remote Control Unit(s) can be used with your system, providing they are all coded with the system 'House Code'. To set the 'House Code' and fit the battery, proceed as follows.



View Inside Remote Control

1. Remove the fixing screw from the back of the Remote Control Unit and carefully separate the two halves of the unit.
2. Fit the 12 Volt Alkaline battery supplied with the negative (-) towards the battery spring.
3. Set miniature switches 1-6 to a random combination of **'+', 'o'** or **'-'** settings. This is your 'House Code'.

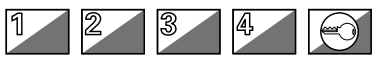
   Make a careful note of the setting of each switch as this information will be needed when you set up other items in your system.

   Note: miniature switches 7 and 8 do not form part of the 'House Code' and should be set in the **'-'** position in the Remote Control.

   Take care not to touch the printed circuit board or allow dust or moisture to enter the Remote Control Unit, as this may damage the electronic components.
4. Reassemble the two halves of the unit and secure using the fixing screw.

SETTING THE CONTROL UNIT HOUSE CODE

To enable the Control Unit to receive the radio signals from your Remote Control(s) and Detectors, the system 'House Code' must be programmed into the Control Unit's memory. The Control Unit learns the system 'House Code' from the Remote Control. Ensure that a battery has been fitted and a 'House Code' has been set in the Remote Control and then proceed as follows:-

1. Ensure that only the Control Unit's top green mains power indicator LED is illuminated.
2. Enter  . The Control Unit is now in programming Mode. The Full Arm and Part Arm LED's will now be illuminated and all the Zone LED's will flash.
3. Enter  . The Zone LED's will extinguish. (Unless a 'House Code' has already been set in which case the LED's will indicate the code set).
4. To set the Control Unit 'House Code', (or to change the 'House Code' to the new code) simply press the Disarm (Blue) button on your Remote Control.

The Control Unit will acknowledge the signal by bleeping twice and memorise the 'House Code' set in the Remote Control. The Zone LED's 1-6 will now indicate the 'House Code' switch setting selected for each switch 1-6 in the Remote Control as follows:-

'+' = LED 'ON'
'o' = LED 'FLASHING'
'-' = LED 'OFF'

5. Once the 'House Code' has been set, press  twice to exit programming mode.

Note: It is possible to manually programme the'House Code' into the Control Unit, if a Remote Control is not available or not required - Refer to Programmable Functions - page 15.

SETTING THE CONTROL UNIT TO TEST MODE

Before installing Magnetic Contact Detectors, Passive Infra Red Detectors or other accessories you should set the Control Unit to Test mode. This will help to ensure that the correct 'House Code' is used and to establish the radio range.

1. Press and hold the  button, until the Control Unit emits 2 bleeps and the Full Arm and Part Arm LED's flash.
2. The system is now in Test mode.
3. Now, each time the Control Unit receives a valid radio signal from a Detector or Remote Control, the Control Unit will emit 2 two-tone chimes and the associated Zone LED will flash for approximately 3 seconds.

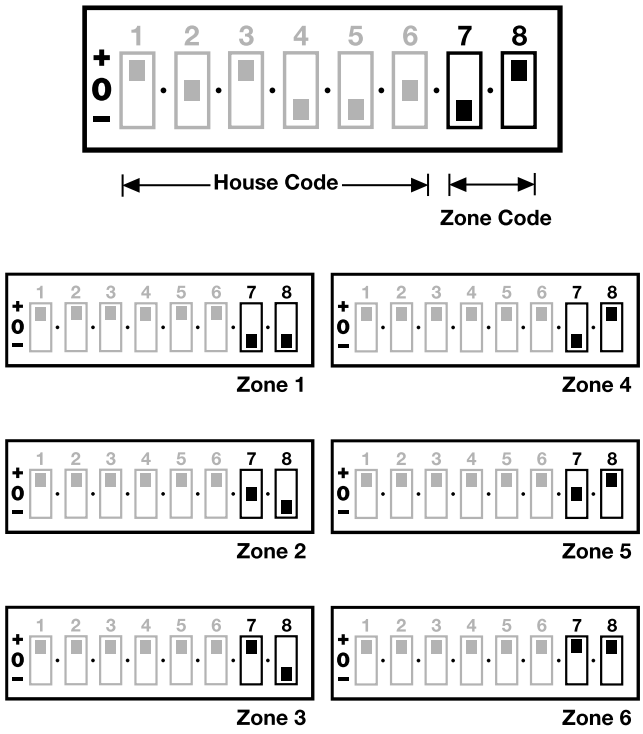
To test the radio range of the Control Unit's receiver, press and release the Disarm (Blue) button on the Remote Control from in and around the property and from all locations where you plan to install the Detectors and check that the Control Unit acknowledges the signals by emitting the two-tone chime (and flashing the Medical Alert (Zone 8) LED for 3 seconds).

The Control Unit should be left in Test mode whilst the detectors and other accessories are set up and installed. However, if you wish to exit the Test mode, press and hold the  button until the unit emits 2 bleeps and the Arm/Part Arm LED's extinguish.

SYSTEM ZONING

The RE5000 Detectors can be set to operate on any one of 6 Zones. There is no limit to the number of Detectors that can be installed on a Zone, although we recommend that only one Detector is installed per Zone for ease of alarm verification. Alternatively where more than 6 Detectors are installed, group all the Detectors in one area/room on the same Zone.

Zone selection is set on each Detector using the 3 position miniature switches 7 and 8, as follows:-



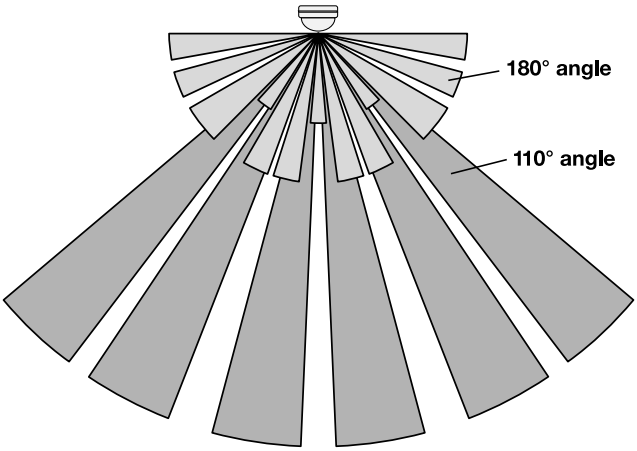
In addition to a Radio Detection Alarm input on Zone 6, facilities are available on the Control Unit Terminal block to also hard-wire a normally closed (open on alarm) circuit on Zone 6. The hard-wired Zone should be wired across terminals 'Zone 6' and 'GRD' on the Control Unit terminal block.

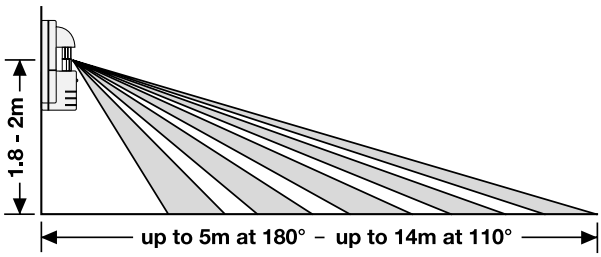
Zone 6 also monitors the Control Unit Tamper Circuits, ie Control Unit fixing/battery cover Tamper switch and (where fitted) hard-wired siren tamper return.

Separate Zone inputs are available for Fire Alarm  (Zone 7) and Medical Alert  (Zone 8). These Zones are pre-programmed into the RE5000SD Smoke Detectors and RE5000MP Medical Alert Pendant respectively. These devices cannot be assigned to different Zones.

WIRELESS PASSIVE INFRA RED DETECTOR(S)

One Passive Infra Red Detector is supplied in the standard RE5000S package. However, additional Passive Infra Red Detectors can be purchased separately, if required. Passive Infra Red Detectors are designed to detect movement within a protected area. The Detector element detects differences in the infra red radiation when a person moves within the protected area. If movement is detected, a radio signal is transmitted to the Control Unit to activate the alarm.

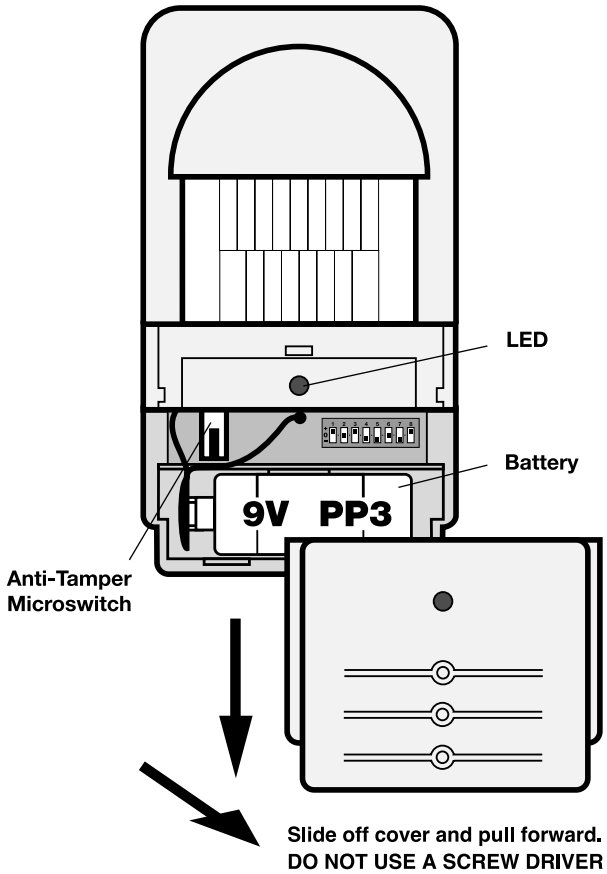


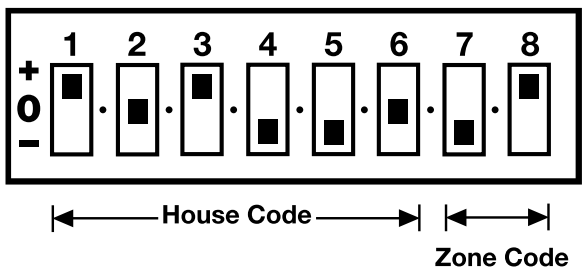


The recommended position for a Passive Infra Red Detector is in the corner of a room mounted between 1.8m and 2m from the floor. At this height, the detector will detect movement up to 5m at 180° and 14m at 110°. Also, in this position, the 180°/110° fan-shaped detection patterns can normally offer greater protection than mounting on a flat wall. Before selecting a position for a Passive Infra Red Detector, the following points should be noted:

1. Do not position a Detector facing a window or direct sunlight. Passive Infra Red Detectors are not suitable for use in conservatories, or draughty areas.
2. Do not position a detector directly above any source of heat, eg. fire, radiators, boiler, etc.
3. Where possible, keep pets out of areas protected by Passive Infra Red Detectors. If this is not possible, alternative mounting arrangements may be required.
4. Where possible, mount the Detector such that the logical path of an intruder would cut across the fan patterns rather than directly towards the Detector to obtain best detector sensitivity.

SETTING THE WIRELESS PASSIVE INFRA RED DETECTOR(S)





Any number of Passive Infra Red Detectors can be used with your system, providing they are all coded with the system 'House Code' and are within radio range of the Control Unit. To set the Passive Infra Red Detector, proceed as follows:

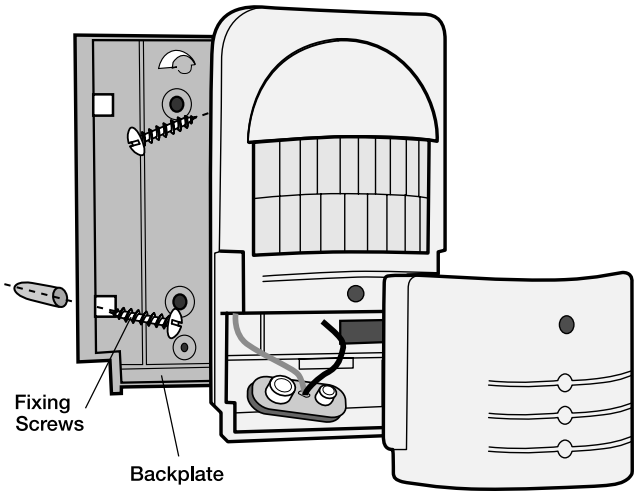
ENSURE THAT THE CONTROL UNIT IS STILL IN TEST MODE.

1. Remove the battery cover by sliding it down and pulling it forward. **DO NOT USE A SCREW DRIVER.**
2. Using a ball-point pen, set the miniature switches 1-6 inclusive to the pre-determined House Code.
3. Determine the Zone on which each Detector is to operate and set miniature switches 7 and 8 to correspond to the required Zone. (Refer to System Zoning page 9).
4. Fit the 9 volt alkaline battery supplied to the battery terminals.

   Note: As soon as the battery is connected, a two-tone chime will be emitted from the Control Unit siren and the appropriate Zone LED will flash for 3 seconds. This confirms that the 'House Code' and Zoning is correct.
5. With the battery cover off, hold the Detector at the proposed installation position, press and release the anti-tamper microswitch. Providing the proposed location is within radio range of the Control Unit, the two-tone chime will be repeated. After the battery has been connected for approx 60 seconds the Infra Red Detector will become active causing the Control Unit to give a two-tone chime every time movement is detected.
6. Leave the battery cover off, remove the battery and proceed to mount the Detector as described.
7. Leave the Control Unit in Test mode.

MOUNTING THE WIRELESS PASSIVE INFRA RED DETECTOR(S)

1. Remove the screw (in the battery compartment) holding the wall bracket to the Detector.
2. Slide the bracket down and remove the wall bracket from the Detector as shown.
3. Hold the wall bracket in position and mark the two mounting holes. (For corner mounting drill pilot holes in the wall bracket chamfers as shown).
4. Drill two 4mm diameter holes and insert the plastic wall plugs supplied.
5. Screw the wall bracket to the wall using the screws supplied.
6. Position the Detector on the locating pin and slide down, then fix the Detector to the wall bracket using the holding screw.



PIR - fixings for corner mounting

Note: The normal detector mounting position is with the battery compartment downwards. However, if the detector is fitted in a room where pets have access, mount the Detector with the battery compartment upwards at a height of 1m from the floor. This will shorten the detection range but allow pets to move about the floor area without activating the Detector.

TESTING THE WIRELESS PASSIVE INFRA RED DETECTOR(S)

ENSURE THAT THE CONTROL UNIT IS STILL IN TEST MODE.

1. Refit the battery in the Detector but do not replace the cover. The Control Unit will emit a two-tone chime and the Detector LED will illuminate for a 60 second 'warm up' period.
2. During the 'warm up' period, leave the protected area and ensure that no movement takes place in this area for at least 60 seconds. Now, by walking into the protected area the Detector LED will flash and the Control Unit will emit a two-tone chime each time the Detector senses movement. This 'Walktest' facility will enable you to check that movement can be detected in all areas of the room.
3. Once the detection range has been verified, refit the battery cover ensuring that the battery lead wires are not trapped in the process.

FURTHER TEST:

1. When the battery cover is fitted, once again leave the protected area and ensure that no movement takes place for at least 60 seconds.
2. Walk into the protected area. The Control Unit will emit a two-tone chime.

Note: When the Detector is fully installed, ie. battery cover is refitted, the unit will not detect movement for approximately 60 seconds after each activation. In normal operation, with the battery cover on, the red LED below the detector window will **not** illuminate upon detection of movement.

Leave the Control Unit in Test Mode and proceed to install your remaining detectors.

FITTING THE STANDARD MAGNETIC CONTACT DETECTOR(S)

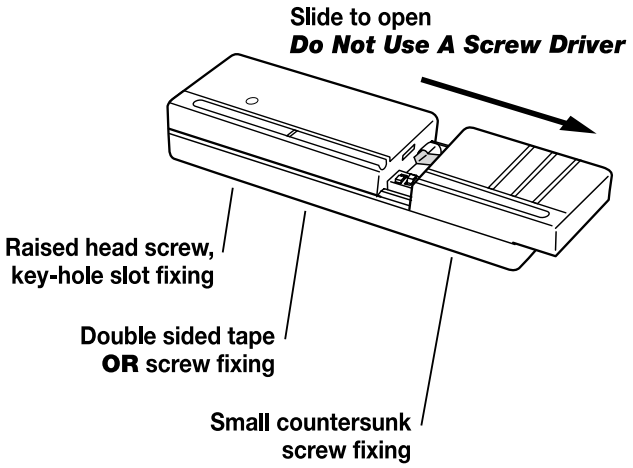
One standard Magnetic Contact Detector is supplied in the RE5000S package. However, additional Magnetic Contact Detectors can be purchased separately if required. Any number of Magnetic Contact Detectors can be used with your system providing they are all coded with the system 'House Code' and are within radio range of the Control Unit. Magnetic Contact Detectors can be fitted to protect doors or windows, as required.

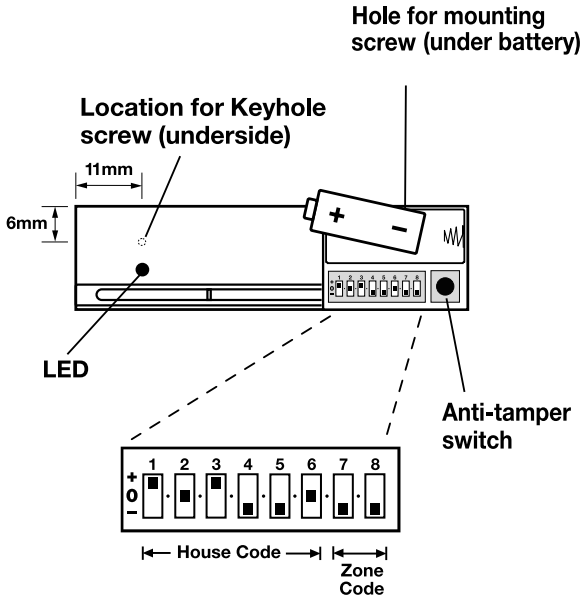
To set the 'House Code' and fit the battery, proceed as follows:

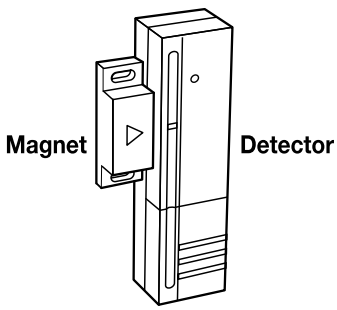
ENSURE THAT THE CONTROL UNIT IS STILL IN TEST MODE.

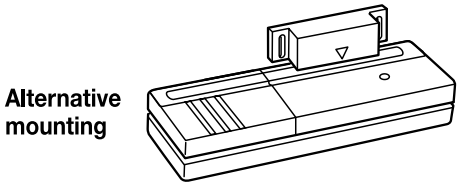
1. Remove the battery cover by sliding it off. **DO NOT USE A SCREW DRIVER.**
2. Set the miniature switches 1 to 6 inclusive to the pre-determined 'House Code'.
3. Determine the Zone on which the Detector is to operate and set miniature switches 7 and 8 to correspond to the required Zone. (Refer to System Zoning page 9).
4. Fit the 12 volt alkaline battery supplied with the negative towards the battery spring.

   Note: As soon as the battery is fitted, a two-tone chime will be emitted from the Control Unit siren and the appropriate Zone LED will flash for 3 seconds. This confirms that the 'House Code' and Zoning is correct.









5. Hold the Contact Detector at the correct position on the door or window, then press and release the anti-tamper switch. Providing the Detector is within radio range of the Control Unit, the two-tone chime will be repeated, for another 3 seconds.

   When fitting the detector to a metal door or window, under exceptional circumstances, it may be necessary to space the Magnet/ Detector off the metal surface using a plastic or wooden spacer to achieve the necessary radio range.

6. Remove the battery, then using the double sided tape **OR** the screws provided, mount the magnet to the door and the Detector to the door frame (or vice-versa, if required). Ensure that the arrow on the Magnet lines up with the line on the Detector and that the gap between the Detector and the Magnet is less than 5mm. When using the screws for mounting the Detector, ensure that the small countersunk screw is used within the battery compartment and that the screw is driven flush with the inside of the casing.

7. Refit the battery and battery cover. (The two-tone chime sound will be repeated at the Control Unit).

8. Test the operation by opening and closing the door/window. The red LED on the Detector will illuminate for approximately 1 second and the Control Unit will emit a two-tone chime each time the detector is 'opened' **and** 'closed'.

Note: In addition to the Standard RE5000M Magnetic Detector, the RE5000MHW Detector is available and incorporates facilities to accept hard-wired normally closed and normally open circuit inputs, in addition to the standard Contact Detector operation. Refer to page 27 for further details.

Once you have completed installing all your Detectors, take the Control Unit out of Test mode by pressing and holding the  button until the Control Unit emits 2 bleeps and the Arm/Disarm LED's extinguish.

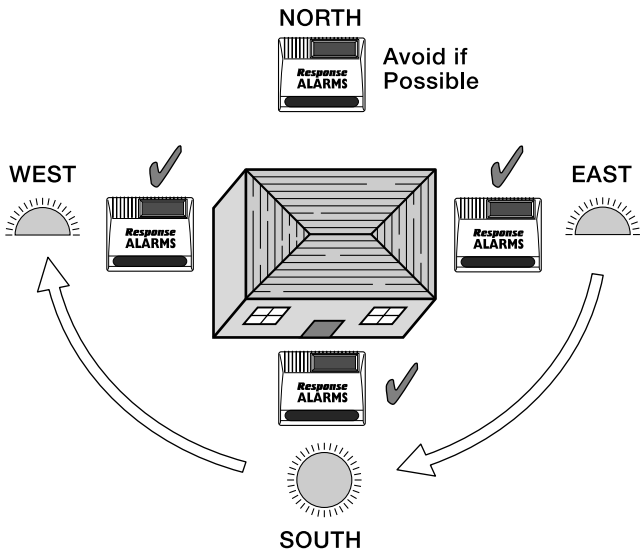
INSTALLING AND SETTING THE EXTERNAL SOLAR WIRELESS SIREN & STROBE

The Solar Siren & Strobe Unit should be fitted to the outside of the building in a position that is clearly visible and at a height which is relatively inaccessible to an intruder.

The Solar Siren & Strobe incorporates a solar panel which will maintain a charge to the integral 6V 1.2Ahr sealed lead acid rechargeable battery during daylight hours. During the night a negligible amount of energy is released by the rechargeable battery to operate the Siren & Strobe. The Solar Siren & Strobe is self-maintainable during darkness and long winter periods.

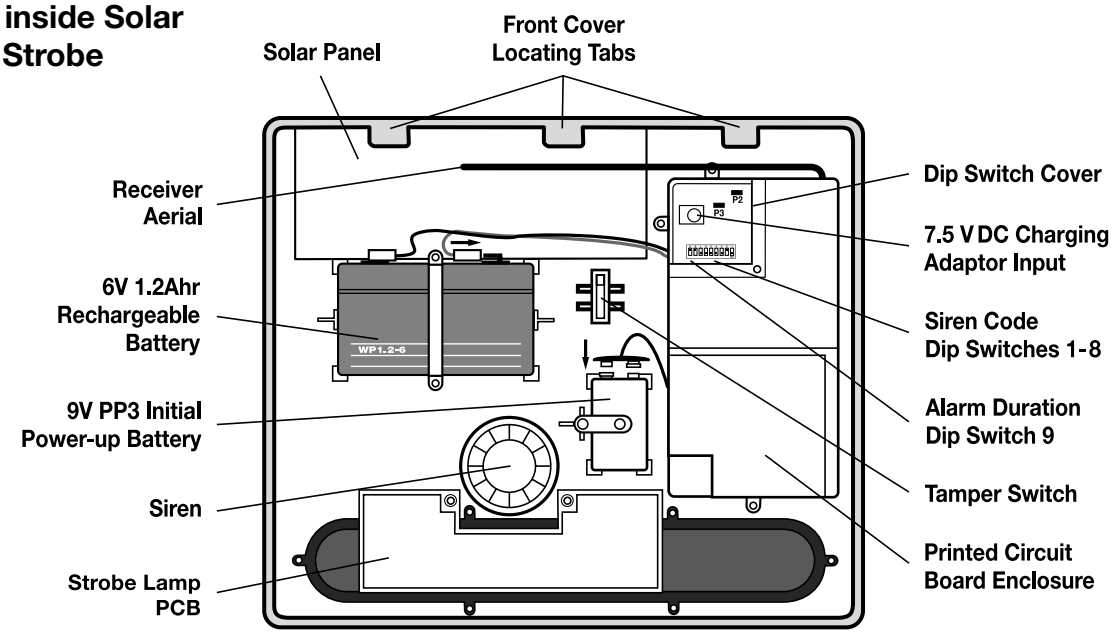
LOCATION

To provide the optimum amount on daylight to the Solar Panel, you should ideally mount the Solar Siren & Strobe on a south facing wall. However, an easterly or westerly position will suffice.



Although the Solar Siren & Strobe is designed to work on any aspect wall, for optimum performance you should refrain from siting the unit on a north facing wall where possible. Shadows cast by neighbouring walls, trees and roof overhangs should also be avoided. Where applicable, the Solar Siren & Strobe should be positioned a minimum of twice the width of the eaves overhang below the eaves. Remember that in winter the sun is lower in the sky and you should avoid winter shadows where possible.

View of inside Solar Siren & Strobe



The Solar Siren & Strobe contains a sophisticated radio receiver. However, reception of radio signals can be affected by the presence of metallic objects within the vicinity of the Solar Siren & Strobe. It is therefore important to mount the Solar Siren & Strobe a minimum distance of 1m radius away from any external or internal metalwork, ie. external drainpipes, gutters and internal radiators, mirrors etc.

INSTALLATION

Remove the holding screw from the base of the housing and carefully hinge off the front cover. All electronic components are housed within the front cover.

Use the rear backplate as a template to mark the position of the four fixing holes on the external wall. Drill four 5mm diameter holes and insert the plastic wall plugs. Mount the backplate using the four screws provided.

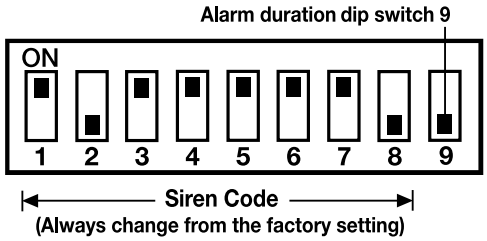
SETTINGS

Undo the 3 screws holding the dip switch cover in place and remove the cover.

SIREN CODE

To enable the Control Unit to operate and control the external Siren & Strobe you need to set a Siren Code in the Solar Siren, which will also be programmed into the Control Unit during programming.

Using a ball point pen set the miniature dip switches 1-8 to a random sequence of 'ON's' and 'OFF's'. Make a note of the Siren Code dip switch settings as this will be needed when programming the Siren Code into the Control Unit.



Note: When the Siren & Strobe is viewed as shown above (solar panel at top) the dip switches are 'upside down'.

ALARM DURATION

This is the maximum length of time that the Solar Siren & Strobe alarm will sound for, following activation. Alarm duration can be set for either 3 or 15 minutes. Set dip switch 9 'OFF' for 3 minutes or 'ON' for 15 minutes.

Refit the dip switch cover securely.

Note: Following activation into alarm condition the Solar Siren & Strobe will continue to sound until either the Control Unit is Disarmed, or the Control Unit autostop time expires, or until the Siren & Strobe alarm duration time expires; whichever occurs first.

INITIAL POWER-UP

Once you have completed setting your Siren Code and alarm duration time, connect the 9V PP3 initial power-up battery to the clip-on connectors. Connect the rechargeable battery to the charging leads red to red (+) and black to black (-).

Hinge the front cover locating tabs over the top edge of the backplate, push the base of the Siren cover into place and secure with the lower fixing screw.

IMPORTANT

Ensure that the rear tamper switch is closed when you fit the siren cover to the back-plate (eg. listen for the switch to click). If the switch does not close this will prevent the Solar Siren from operating correctly. If necessary, remove the siren cover again to adjust the screw on the back-plate tamper knob to ensure the switch closes on assembly. The Tamper Switch is inoperative until the Siren has received a 'start' and 'stop' signal from the Control Unit.

Note: Once the batteries have been connected, the unit will be operational and it is important that the solar panel receives sufficient light to maintain the battery charge. Also, the unit should not be repeatedly set into alarm as this could rapidly drain the battery.

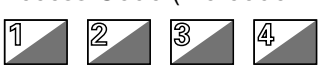
PROGRAMMABLE FUNCTIONS

The Control Unit incorporates 13 programmable functions which are selected and set via the Control Unit's keypad. A factory 'Default' setting is incorporated for each programmable function. The system incorporates a non-volatile memory which memorises all the user programmable settings in the event of a total power down.

In the event that you wish to revert the Control Unit to factory 'Default' settings, remove all power (mains and back-up battery), set the memory link to 'OFF' and reapply power. In all other circumstances the memory link should be left 'ON' for full system security.

IMPORTANT

As all programmable functions have a 'Default' setting it is important that each function is selected and set to the user's requirements on initial installation.

The Control Unit has an initial 'Default' Main User Access Code (the code that operates the system) of 

.

To enter the Programming mode and change each programmable function, proceed as follows:-

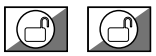
Enter 

.

or Current Main User Access Code

The Full Arm and Part Arm LED's will illuminate and all the Zone LED's will flash to indicate the system is in programming mode.

Note: If you make an error when entering your settings, press  once to exit the programming function then enter the function number followed by  and re-enter your correct settings.

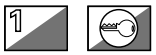
To exit the Programming mode at any time enter  .

1. HOUSE CODE

The 'House Code' setting enables the Control Unit to receive signals only from its associated detectors.

The 'House Code' is usually self-learned from the Remote Control on initial installation (see page 8) and further programming is therefore not required.

However, if a Remote Control is not available the 'House Code' can be programmed into the Control Unit as follows:-

With the Control Unit in Programming mode Enter  . The Zone LED's 1-6 will indicate the 'House Code' switch setting selected for each switch 1-6 as follows:-

Switch set **'+'** - Zone LED 'ON'
Switch set **'o'** - Zone LED 'FLASHING'
Switch set **'-'** - Zone LED 'OFF'

Factory Default

All switches set to **'-'**; all LED's 'OFF'.

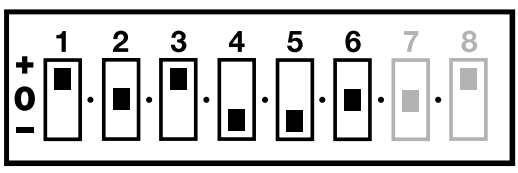
To enter/change the system 'House Code', refer to the miniature switch 1-6 settings in your Detectors. Make a note of each switch setting and enter the setting of each switch in turn as follows:-

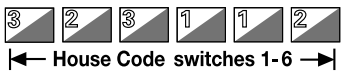
For switch setting **'+'** - Press 

For switch setting **'o'** - Press 

For switch setting **'-'** - Press 

For example: For House Code:-



ENTER:- 

House Code switches 1-6

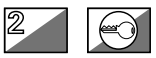
The Zone LED's 1-6 will indicate the new 'House Code' switch setting selected for each switch 1-6 as follows:-

'+' - LED 'ON'
'o' - LED 'FLASHING'
'-' - LED 'OFF'

Press  to memorise the 'House Code' setting and to revert to the Programming mode.

2. INSTANT/DELAY ZONE

Any Zone can be set to give an entry delay when the appropriate Detector(s) are triggered, eg. to allow access to the Control Unit for manual disarming. (The length of the entry delay period is programmed separately - see **7** below).

With the Control Unit in Programming mode Enter  .

The Zone LED's 1-6 will indicate the status of each Zone:-

Zone LED 'ON' = Delay Zone
Zone LED 'OFF' = Instant Zone

Factory default:-

Zones 1 and 2 Entry Delay
Zones 1 and 2 LED's 'ON'.

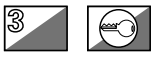
To add or delete a Delay Zone, press the number of the Zone to illuminate or extinguish the appropriate Zone LED.

Press  to memorise the setting and to revert to the programming mode.

3. EXIT DELAY TIME

When the system is fully armed either at the Control Unit or via a Remote Control, the system will ignore all detectors for a preset Exit Delay time, to allow you to leave the premises.

Note: There is no exit delay when the system is Part Armed.

With the Control Unit in Programming mode Enter  .

A Zone LED will illuminate to indicate the setting:-

Factory default:-

30 seconds - Zone 3 LED 'ON'.

To change the setting, press the appropriate key to illuminate the associated Zone LED:-

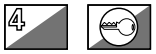
Press	1	2	3	4	5	6	7	8
Exit Delay	10 sec	20 sec	30 sec	40 sec	50 sec	60 sec	90 sec	180 sec

Enter  to memorise the setting and to revert to the Programming mode.

4. ALARM AUTOSTOP TIME

This is the length of time that the alarm will sound for when activated. A fully silent alarm option is also available. (If accidentally triggered, the alarm can be stopped at any time using the Remote Control or by disarming at the Control Unit keypad).

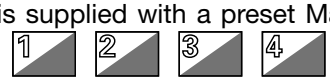
Note: The maximum length of time that the external Solar Siren & Strobe will sound for when activated is set within the Solar Siren & Strobe to either 3 or 15 minutes - refer to "Installing and Setting the External Solar Siren & Strobe" for details.

With the Control Unit in Programming mode Enter  . A Zone LED will illuminate to indicate the setting:- (factory default 60 seconds - Zone 2 LED 'ON'). To change the setting press the appropriate key to illuminate the associated Zone LED:- (Note no LED will be illuminated if a silent alarm is selected).

Press	1	2	3	4	5	6	7	8	0
Alarm Time	30 sec	60 sec	2 min	3 min	4 min	5 min	10 min	15 min	Silent Alarm

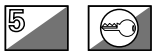
Press  to memorise the setting and to revert to the Programming mode.

5. MAIN USER ACCESS CODE

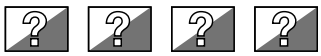
The Control Unit is supplied with a preset Main User Access Code of  . This code allows general operation (Arming/Disarming etc) AND programming/re-programming of the system at the Control Unit. However, for security reasons, it is essential that you change the Main User Access Code to another four-digit number which only you and other users of the system will know and use (usually a number with a personal significance is easier to remember).

Note: a separate Second User Access Code is also available which will allow only Arming/Disarming at the Control Unit. You may therefore wish to allow

general use of the system to be via this second code (eg. for children, guests, cleaners etc) and to retain the Main User Access Code for your personal use in re-programming the system. To change the Main User Access Code:-

With the Control Unit in programming mode Enter  . No Zone LED's will be illuminated.

Enter your new Access Code.



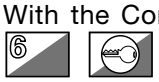
The Zone LED's 1-4 will illuminate as each digit is entered.

Press  to memorise the setting and to revert to Programming mode.

6. DOOR-CHIME ZONE

It is possible to programme the Control Unit to emit a two-tone 'door-chime' tone when a Magnetic Detector is opened, with the system in Disarmed mode. This facility may therefore be used to monitor Entry/Exit doors when the system is not armed. The facility is Zonal, ie: if there are 2 Magnetic Detectors on one Zone, both detectors will operate the chime tone. It is not possible to use PIR Detectors or the Zone 6 Hard Wired input to generate the chime tone.

To set the Zone(s) on which the chime will operate make a note of the Zone of the appropriate magnetic detector(s) and proceed as follows:-

With the Control Unit in Programming mode Enter  . The Zone LED's 1-6 will indicate the status of each Zone:-

Zone LED 'ON' = Door-Chime 'ON' Zone
Zone LED 'OFF' = Door-Chime 'OFF' Zone

Factory default:-

Zone 1 Door-Chime 'ON'
Zone 1 LED 'ON'.

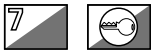
To add or delete a door-chime Zone press the number of the Zone to illuminate or extinguish the appropriate Zone LED.

Press  to memorise the setting and to revert to the Programming mode.

7. ENTRY DELAY TIME

When entering an entry delay Zone with the system Armed or Part Armed, the system will be inactive for a preset Entry Delay time to allow you time to disarm the system by entering your access code at the Control Unit, or using the Remote Control.

During the entry delay period, the Control Unit sounder will emit an intermittent bleep tone and the appropriate Zone LED(s) will flash to indicate that the system has been triggered by a delay Zone detector.

With the Control Unit in Programming mode, Enter  .

A Zone LED will illuminate to indicate the setting

Factory default:-

30 seconds - Zone 3 LED 'ON'.

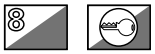
To change the setting press the appropriate key to illuminate the associated Zone LED:-

Press	1	2	3	4	5	6	7	8
Entry Delay	10 sec	20 sec	30 sec	40 sec	50 sec	60 sec	90 sec	180 sec

Press  to memorise the setting and to revert to the Programming mode.

8. PART ARM ZONE OMIT

Any of the Zones 1-6 can be omitted (ie inactive) when the system is Part Armed. This will enable you to arm only the selected (active) Zones when you Part Arm the system.

With the Control Unit in Programming mode Enter  the Zone LED's 1-6 will illuminate to indicate the Zones which are omitted (inactive) when the system is Part Armed:-

Factory default:-

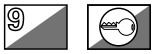
Zone 1 omitted - Zone 1 LED 'ON'.

To add or delete an omitted Zone, press the number of the Zone to illuminate or extinguish the appropriate Zone LED.

Press  to memorise the setting and to revert to the Programming mode.

9. EXIT DELAY TONE

During the Exit delay period the Control Unit may be set to either remain silent or to give an intermittent bleep tone.

With the Control Unit in Programming mode Enter  .

Zone 1 LED will indicate the setting:-

LED 'ON' - intermittent bleep delay tone selected
LED 'OFF' - silent exit delay selected.

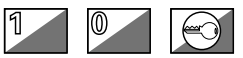
Factory default:-

intermittent bleep tone ON - Zone 1 LED 'ON'.

Press  to select silent exit delay
Press  to select intermittent bleep delay tone.
Press  to memorise the setting and revert to the Programming mode.

10. QUICK ARM/PART ARM

Quick Arm allows the Control Unit to be Armed or Part Armed by simply pressing and holding the Arm or Part Arm key for 5 seconds removing the need to enter an access code first.

With the Control Unit in Programming mode Enter  .

Zone 1 LED will indicate the setting:-

LED 'OFF' - Quick Arm 'OFF'
LED 'ON' - Quick Arm 'ON'

Factory default:-

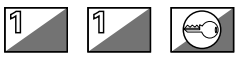
Quick Arm OFF - Zone 1 LED 'OFF'

Press  to select Quick ARM 'ON'
Press  to select Quick ARM 'OFF'
Press  to memorise the setting and to revert to the Programming mode.

11. JAMMING DETECTION SYSTEM

In order to detect any attempts to jam the radio channel used with your alarm system a sophisticated Jamming Detection system is incorporated into the Control Unit. If this feature is selected and the radio channel is continuously jammed for more than 30 seconds the Control Unit sounder will emit a Pre Alarm series of rapid bleeps for 5 seconds. If the system is Armed and the Jamming continues for a further 10 seconds or more; or a total of 30 seconds of Jamming is detected within a 5 minute period, a full alarm will occur indicated by the Internal and External alarms sounding, but no Zone LED's ON.

The jamming detection circuit is designed to permanently scan for illegal jamming signals. However, it is possible that it may detect other local radio interference operating legally or illegally on the same frequency. If it is planned to operate the jamming detection feature we recommend that the system is monitored for false jamming alarms for at least 2 weeks prior to leaving the Jamming Detect function on permanently.

With the Control Unit in Programming mode Enter  .

Zone 1 LED will indicate the setting:-

LED 'OFF' - Jamming Detection System 'OFF'
LED 'ON' - Jamming Detection System 'ON'

Factory default:-

Jamming Detection 'OFF', Zone 1 LED 'OFF'.

Press  to select Jamming Detection 'ON'
Press  to select Jamming Detection 'OFF'
Press  to memorise the setting and to revert to the Programming mode.

12. SIREN CODE (AND OPTIONAL MEDICAL ALERT PENDANT CODE)

A small radio transmitter is incorporated within the RE5000S Control Unit to operate and control the external Solar Siren & Strobe. To enable the Control Unit to communicate with the external Solar Siren & Strobe the Siren Code set in the external Siren (see page 14) needs to be programmed into the Control Unit.

The (optional) Medical Alert Pendant(s) to be used with the system must also be set to the 'Siren Code' in order that the pendant radio signal is sent to both the Control Unit **and** the external Siren & Strobe,

thereby ensuring that the signal is correctly received. For full details of the setting and operation of the optional Medical Alert Pendant refer to the instructions supplied with the unit.

To programme the Siren Code into the Control Unit, with the Control Unit in Programming mode Enter 1 2 . The Zone LED's 1-8 will indicate the Siren Code switch setting selected for each 2 position switch as follows:-

Switch set 'ON' - Zone LED 'ON'
Switch set 'OFF' - Zone LED 'OFF'

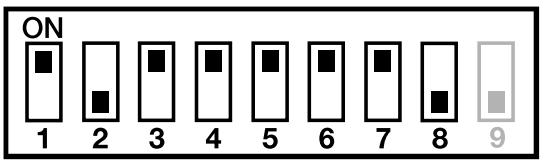
Factory default:-

All switches set to 'ON' - all LED's 'ON'.

To enter/change the Siren Code, refer to the miniature switch 1-8 settings previously set in your Solar Siren & Strobe (and /or Medical Alert Pendant(s) and enter the setting of each switch in turn as follows:-

For switch set 'ON' press 3
For switch set 'OFF' press 1

For example; for Siren Code:-



ENTER:- 3 1 3 3 3 3 3 1

Siren Code Switches 1-8

The Zone LED's 1-8 will indicate the new Siren Code switch setting selected for each switch 1-8 as follows:-

switch 'ON' - LED 'ON'
switch 'OFF - LED 'OFF'

Press to memorise the Siren Code setting and to revert to the programming mode.

13. SECOND USER ACCESS CODE

The Control Unit is supplied with a Preset Second User Access Code of 2 3 4 5 . This code allows Arming/Part Arming and Disarming only at the Control Unit and may therefore be entrusted to children, guests or neighbours; or alternatively this code could be used for day to day operation, with the Main User Access Code reserved for re-programming only. However you plan to use the system, for security reasons it is essential that you change the Second User Access Code to another four digit number which only you and other users of the system will know and use. (Again, a number with a personal significance will be easier to remember).

With the Control Unit in Programming mode Enter 1 3 . No Zone LED's will be illuminated.

Enter your new Second User Access Code.

? ? ? ?

The Zone LED's 1-4 will illuminate as each digit is entered.

Press to memorise the setting and to revert to the Programming mode.

Programming of your Control Unit is now complete. Exit Programming mode by pressing again.

EXTERNAL CONNECTIONS

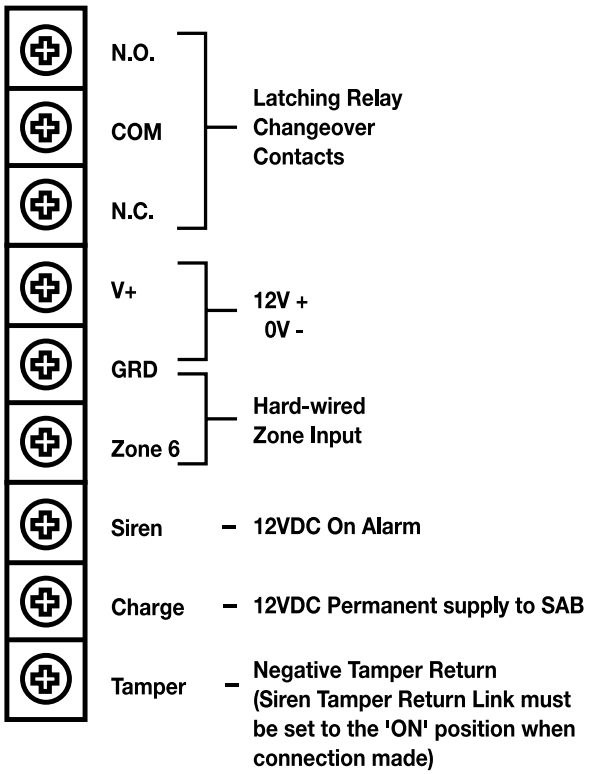
The Control Unit incorporates a terminal block and Communication Interface Cable to facilitate external connection of a Hard-wired Siren, Telephone Dialler/Communicator, or a Hard-wired Zone 6 Trigger input. Before making any connections, ensure that the memory link is in the 'ON' position and then remove all power (mains and back up battery).

Note: Any unused cores of the interface cable must be cut back; insulated or made safe to prevent short circuits.

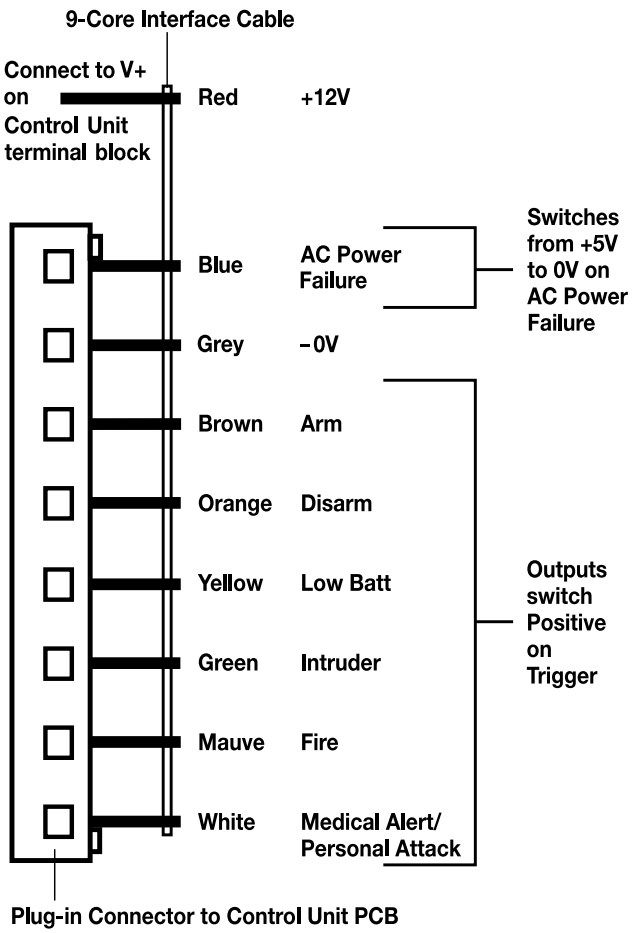
After making your external connections reconnect the power supply and back-up battery and refit the Control Unit to it's wall fixing bracket.

Wiring interconnections should comply with the appropriate requirements of BS4737 part 1 in respect of cable type and installation methods.

Full details of the Control Unit terminal block connections and Communicator Interface Cable connection are shown overleaf:-



Control Unit Terminal Block Connections



Communicator Interface Cable Connection

OPERATING INSTRUCTIONS

IMPORTANT

The System cannot be Armed, Part Armed or put into Test mode if any previous low battery or alarm indication has not been cleared, (indicated by any Zone LED's flashing) or if a Magnetic Detector is open (indicated by the appropriate Zone LED's illuminating steadily). When an attempt is made to Arm the system under any of these conditions the Control Unit will emit 3 rapid bleeps.

For a low battery condition, replace the detector battery prior to clearing the indication. To clear a low battery or alarm indication Enter the Main User or Second User Access Code, followed by  . A low battery or alarm indication cannot be cleared using the Remote Control Unit.

FULLY ARMING THE SYSTEM

When leaving the premises, the system must be fully armed. However, before doing so, check that all windows are closed and locked, all protected doors are closed and Passive Infra Red Detectors are not obstructed. Ensure that pets are restricted to areas not protected by Passive Infra Red Detectors or that suitable precautions have been taken to allow for pets.

The system may be fully armed either at the Control Unit or using a Remote Control. If Arming at the Control Unit, you must first Enter your 4 digit Access Code (Main User or Second User Code) then press  . Alternatively, if Quick Arm has been programmed, press and hold the  button for 5 seconds. If arming using a Remote Control Unit simply press the green Full Arm button. If the System exit tone has been set for 'ON' the Control Unit sounder will emit an intermittent bleep tone and the Full Arm LED will flash for the duration of the preset exit time, Arming automatically when the exit time expires.

All occupants must leave the premises before the exit time has expired. If for any reason you are unable to leave the premises before the exit time has expired, you will need to disarm the system, then Re-Arm. Failure to do so will cause a full alarm if any protected door is opened or movement is detected by a Passive Infra Red Detector.

When fully armed the Full Arm LED will be illuminated steadily.

PART ARMING THE SYSTEM

If you are remaining in the premises, you may arm all the Zones which have not been omitted, by selecting Part Arm. This will permit free access to the omitted Zone areas.

The system may be set on 'Part Arm' either at the Control Unit or using a Remote Control Unit. If setting on 'Part Arm' at the Control Unit, you must first Enter your 4 digit access code (Main User or Second User Code) then press  . Alternatively, if Quick Arm has been programmed, press and hold the  button for 5 seconds. If arming from the Remote Control Unit, simply press the orange Part Arm button.

The LEDs associated with the Part Arm Zone(s) will illuminate for 5 seconds. (Any Zone LED not lit indicates that that Zone has been omitted and will not be active in Part Arm mode). After the 5 seconds the LEDs will extinguish and the Part Arm LED will illuminate steadily to indicate that the system is Part Armed.

You must leave all protected Zones before expiry of the 5 second arming time. If for any reason you are unable to leave the protected areas within the arming time, you will need to disarm the system then re-arm. Failure to do so will cause a full alarm if any protected door is opened or movement is detected by a Passive Infra Red Detector set to operate in Part Arm.

When part armed, the Part Arm LED will be illuminated steadily.

DISARMING THE SYSTEM

Upon entering an Entry Delay Zone, the Control Unit sounder will emit an intermittent bleep tone and the appropriate Zone LED(s) will flash for the Preset Entry Delay period.

You may disarm the system by pressing the blue disarm button on the Remote Control Unit or by proceeding immediately to the Control Unit and entering your 4 digit Access Code (Main User or Second User Code) followed by  .

Note: If the system is not disarmed during the Entry Delay Period a full alarm will occur. When using the Remote Control Unit, you may be able to disarm the system from outside the premises before entering. Establish the operational range of the Remote Control Unit before using this method.

DISARMING AFTER AN INTRUSION

A full alarm condition (Control Unit Siren and external Siren and Strobe operating) will be initiated following an intrusion. This condition will continue until expiry of the preset 'Auto-Stop' and/or 'Alarm Duration' times, whereby the Control Unit Siren and external Siren and Strobe respectively will cease. The Appropriate Zone LED(s) will flash to indicate the Zone(s) which triggered the alarm. The Control Unit will now immediately re-arm itself. In the event of a further intrusion the Control Unit will once again initiate a full alarm condition and the above process is repeated.

If a full alarm condition is initiated accidentally the alarm can be cancelled immediately by pressing the blue disarm button on your Remote Control or by entering your 4 digit Access Code (Main User or Second User Code) followed by  at the Control Unit.

IMPORTANT

Following disarming of the system after an Alarm activation, make a careful note of the zone LED indications to assist with tracing the cause of the alarm. The Control Unit **MUST** then be reset by entering your 4 digit Access Code (Main User or Second User Code) followed by  .

The system **CANNOT** be rearmed until the Control Unit has been reset.

PERSONAL ATTACK, MEDICAL AND FIRE ALARM

A full alarm condition can be initiated by the user at any time (system armed or disarmed) in the event of threat or danger as follows:

PERSONAL ATTACK:- Press the red  button on your Remote Control.

The Control Unit will initiate a full alarm and Zone 8 LED will flash.

FIRE ALARM:- Press and hold the  button on the Control Unit for 3 seconds. The Control Unit will initiate a full alarm. A special Fire Alarm tone will sound at the Control Unit and Zone 7 LED will flash. A Fire Alarm can also be initiated from an optional Smoke Detector ref RE5000SD.

MEDICAL ALERT:- Press and hold the  button on the Control Unit for 3 seconds. The Control Unit will initiate a full alarm. A special Medical Alert tone will be sounded at the Control Unit and Zone 8 LED will flash. A Medical Alert can also be initiated using the optional Medical Alert Pendant Ref: RE5000MP.

When connected to a Security Dialler or Communicator, separate alarm outputs are available to Communicate Intruder, Personal Attack/Medical Alert or Fire Alarm situations.

To cancel any of the above alarms, Enter your 4 digit Main User or Second User Access Code followed by  .

Note: An Alarm Condition can also be stopped by pressing the blue Disarm button on your Remote Control. However, the Control Unit must still be reset by entering the Main User or Second User Access Code followed by  before the Control Unit can be armed again.

BATTERY MONITORING

The System will continuously monitor the battery condition of all PIR and Magnetic Contact Detectors, Medical Pendants and Smoke Detectors. If the voltage level of any battery falls unacceptably low, a radio signal will automatically be transmitted to the Control Unit and the low battery and appropriate Zone LED's will flash, and the control unit will emit two bleeps every minute.

To identify a PIR Detector with a low battery, leave each protected area for at least 60 seconds. If, when you re-enter the area, the PIR LED flashes on detection of movement, this indicates a low battery. The batteries in the Magnetic Contact Detectors can be checked by operating the detector (opening and closing the protected door/window) and observing the LED on the Detector. If the LED is dim or does not illuminate, the battery needs to be replaced. In the event of a low battery condition clear the low battery indication, then set the Control Unit to 'Test' mode (see page 9). Replace the battery as required and ensure that the Test chime is emitted when the battery is inserted. Remember to take the Control Unit out of Test mode when you have finished.

Note: When replacing PIR Detector batteries, fit PP3 alkaline type. Rechargeable batteries should **NOT** be fitted. For areas subject to seasonal low ambient temperatures (eg. garages, sheds etc) we recommend the use of PP3 Lithium batteries (order code RE3005B) in PIR Detectors.

TESTING THE SYSTEM

You may test your system at any time, however, it is recommended that the system is tested at regular intervals not exceeding three months. You cannot readily test the system using the Remote Control Unit. You must set the Control Unit into Test mode by pressing and holding the  button on the Control Unit until the Control Unit emits 2 bleeps and the Full Arm and Part Arm LED's flash.

Before testing areas protected by Passive Infra Red Detectors, ensure that the area is completely clear of occupants, including pets. Wait 60 seconds before testing areas protected by Passive Infra Red Detectors and also allow 60 seconds between tests.

When a Passive Infra Red Detector is activated, or a protected door or window is opened or closed the Control Unit will emit 2 x two-tone chimes and the associated Zone LED will flash for approximately 3 seconds.

On completion of testing, return to the normal disarmed mode of operation by pressing and holding the  button until the Control Unit emits 2 bleeps and the Full Arm/Part Arm LED's extinguish.

To test the external Solar Siren & Strobe ensure that the Control Unit is out of Test mode, then press the red  button on the Remote Control Unit to activate the Control Unit Siren and External Siren & Strobe. Allow the alarm to sound for at least 15 seconds then press the blue disarm button on the Remote Control to de-activate. Clear the Control Unit 'Alarm Activated' light by entering your Main User or

Second User Access code followed by  at the Control Unit.

MAINTENANCE

Your RE5000S Intruder Alarm System requires very little maintenance. However, a few simple tasks will ensure its continued reliability and operation.

CONTROL UNIT

The Control Unit requires no maintenance. If cleaning is required, wipe the outside of the casing with a soft damp cloth. Do not use aerosols or sprays or proprietary cleaners. Do not attempt to clean inside the unit or allow water to enter the unit.

SOLAR SIREN & STROBE

1. At least once a year, preferably in the Autumn, the solar panel on the top of the siren housing should be cleaned using a soft, damp cloth. This operation will ensure that the solar panel receives all the available light. The cleaning operation can be combined with the general cleaning of the outside of the house, windows etc. to reduce maintenance time.
2. The Solar Siren & Strobe incorporates tamper protection for system security. Should you, for any reason, have to completely power down the Solar Siren & Strobe (eg. to move the system to a new premises) remove the holding screw at the base of the Siren and hinge off the front cover.

   WARNING - THE SIREN WILL SOUND

   Disconnect the rechargeable battery and initial power up battery and ensure that the solar panel is covered with a light proof material to prevent it being energised.
3. The Solar Siren & Strobe should not be left for long periods with the batteries connected, unless the unit is able to receive sufficient light to maintain the battery charging circuit. Failure to maintain charge to the unit will result in the rechargeable battery running unacceptably low. Should this occur, the unit must be recharged from a 240/7.5V dc mains adaptor (Response order code S100TR). When re-powering the Solar Siren & Strobe fit a new 9V PP3 leak proof alkaline Initial Power-Up battery to ensure that the unit receives sufficient power until the solar panel can recharge the main battery completely.

RECHARGEABLE BATTERIES

The rechargeable batteries in the Control Unit and Solar Siren & Strobe have a typical life of 4 years and need no maintenance during this period providing the batteries are kept charged. The batteries will be damaged if stored in a discharged state.

The rechargeable batteries should be taken to a suitable Recycling Centre at the end of their useful life. DO NOT dispose of with your normal household waste. The rechargeable batteries contain Sulphuric Acid - DO NOT attempt to open the casing.

DETECTORS & REMOTE CONTROL

The Detectors and Remote Control(s) require no maintenance. Simply replace the batteries once a year or when a low battery is indicated. The specifications of the Detector and Remote Control batteries are as follows:

PIR Detectors	- 9V PP3 Alkaline or Lithium
Standard Magnetic Contact Detectors	- 12V 23A Alkaline
Remote Controls	- 12V 23A Alkaline

Please recycle used batteries were Local Authority facilities exist. Keep batteries away from children and do not dispose of in fire.

TROUBLE SHOOTING

Symptom / Recommendation

Control Unit will not arm. Control Unit emits 3 bleeps when trying to arm.

1. Magnetic Contact Detector 'Open' - Check Zone LED illuminated and close detector(s) on that Zone. If Detector cannot be closed, enter, then exit Programming mode to clear the indication.
2. Low battery in a Detector. Check Zone indicated, change battery and clear indication at Control Unit.
3. Alarm/low battery indicator not cleared. Enter Main User or Second User Access Code followed by  .

Detection Zone has been triggered but no alarm is sounding

1. Entry delay zone triggered - alarm will sound when delay time has expired.
2. Zone omitted when part armed.
3. Silent alarm option selected.

Control Unit 'Low Battery' light flashing, Zone LED(s) flashing and control unit bleeping every 60 seconds

1. Check all PIR Detector(s) on the Zone indicated for low battery, indicated by detector LED flashing when movement is detected - change battery(s) as required.
2. Check all Magnetic Detectors on the Zone indicated for low battery indicated by detector LED not illuminating when detector is opened/closed - change battery(s) as required.
3. Check the battery in all RE5000 Smoke Detectors - a low battery will also cause the Smoke Detector to bleep every minute - change battery as required.

Full Alarm Occurs when alarm has not been activated by an intruder

1. Ensure mains adaptor is plugged in/connected and switched on.
2. Ensure that the Control Unit is securely fitted to the wall and that the rear battery compartment cover is closed.
3. Check that Personal Attack Button, Medical Alert Pendant or Smoke Detectors have not been operated.
4. Check that battery covers on all detectors are fitted securely.
5. Check for Jamming Detection Alarm operation.

Symptom / Recommendation

Control Unit not working. Mains light is off.

1. Check that mains adaptor is plugged in/connected and switched on.

Control Unit will not function (Sirens are sounding)

1. Disconnect power (including Control Unit back-up battery), for 10 seconds, then re-connect mains power followed by back up battery. (Remember, all programmed functions will be retained if the Memory Link is in the 'ON' position).

Control Unit not accepting access code(s).

1. Pausing too long between pressing keys. Do not pause for more than 5 secs between keys.
2. Incorrect code entered. Allow 5 seconds to elapse before re-entering correct code.
3. Unit has reset to factory default codes/programme. Fit Memory Link in 'ON' position and re-programme all programmable features.

Control Unit emits two-tone chime when detectors are triggered.

1. Door-Chime set to operate on Magnetic Detector Zone(s) - Re-programme Door-Chime Zone(s).
2. Control Unit in 'Test' mode - Reset to normal, disarmed mode.

Control Unit not responding to detectors.

1. Ensure detectors are within radio range of Control Unit. If not, move detector closer.
2. Ensure that the 'House Code' on the Detector is the same as that set in the Control Unit.
3. Replace detector battery.

Solar Siren and Strobe sounding but no alarm at Control Unit.

1. Siren Anti-tamper activated. Check security of Siren/Strobe fixing to wall and that Siren anti-tamper switch is fully depressed.
2. Siren & Strobe has not received 'Stop' signal. Press Disarm on Remote Control to make the Control Unit re-transmit the 'Stop' signal.

TROUBLE SHOOTING *Continued*

Symptom / Recommendation

Solar Siren and Strobe does not operate when system activated.

1. Incorrect Siren Code dip switch settings in Solar Siren and Strobe or Siren code incorrectly programmed into Control Unit.
2. Siren duration time timed-out before Control Unit Autostop time.
3. Disconnect rechargeable and power-up batteries. Cover solar panel and leave unit for 3-5 minutes. Re-connect the batteries and then remove the Solar panel cover.
4. Rechargeable battery low. Power down, fit new initial power up battery and re-power up.

No response from Passive Infra Red Detector

1. Check battery connections are good.
2. Ensure that 'House Code' is same as that set in Control Unit.

Passive Infra Red Detector not detecting a person's movement

1. Allow up to one minute for the Detector to settle down and retry.
2. Ensure that Detector is mounted the correct way up (battery compartment at the bottom except for 'Pet Alley').
3. Ensure that the Detector is mounted at the correct height 1.8 - 2m from floor, except 'Pet Alley').
4. Check that the Detector is correctly set-up. (See Setting Up Infra Red Detectors).
5. If Detector is mounted upside down for 'Pet Alley', check that the mounting height is not greater than 1m from the floor, depending on the size of pet.

Passive Infra Red Detector flashes when you walk past it

1. Low battery - replace alkaline battery.

Symptom / Recommendation

Passive Infra Red Detector false alarming

1. Ensure that the Detector is not pointing at a source of heat or a moving object.
2. Ensure that the Detector is not mounted above a radiator or heater.
3. Ensure that the Detector is not facing a window or in direct sunlight.

Remote Control Unit not working

1. Ensure 'House Code' is the same as that set in the Control Unit.

Red light on Remote Control Unit not illuminating

1. Ensure battery is connected with correct polarity.
2. Replace battery with alkaline type.
3. Ensure battery connections are good.

Magnetic Contact Detector not working

1. Ensure 'House Code' is the same as that set in the Control Unit.

Red light on Magnetic Contact Detector not illuminating or is dim when door or window is opened

1. Ensure battery is connected with correct polarity.
2. Replace battery with alkaline type.
3. Ensure battery connections are good.

Magnetic Contact Detector false alarming

1. Ensure that gap between Magnet and Detector is less than 5mm.
2. Tamper switch below battery cover not depressed. Check mounting screw below battery is fitted flush. Check battery cover lugs are not broken.

IF YOU HAVE ANY PROBLEMS RING THE HELPLINE: 09062 777200

(Lines open 9.00am to 6.00pm, Monday to Friday. Calls charged at 25p per minute)

IMPORTANT NOTICE FOLLOWING ALARM INSTALLATION

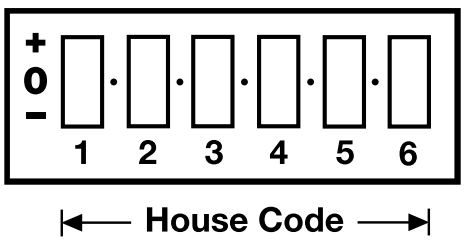
In order to comply with the Code of Practice on Noise from Intruder Alarms 1981 you should carry out the following procedures within 48 hours of the Intruder Alarm installation.

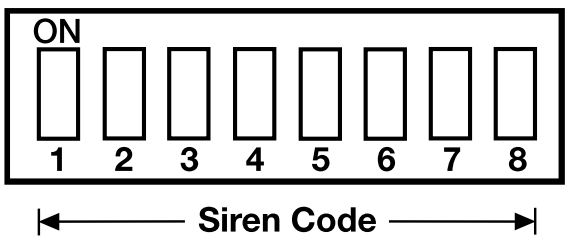
1. Notify your local police station in writing that an Intruder Alarm System has been installed, giving details of at least two persons who know the Access Code(s) or are in possession of a Remote Control Unit.
2. Ensure that all users are aware of the operating procedures.
3. Inform the local Environmental Health Authority of the installation and which police station has been informed.
4. Immediately inform your local police station if there is a change to the persons who know your Access Code(s) or have a Remote Control Unit.

RE5000S ALARM RECORD

Complete the following information during installation for future reference.

Zone	Detector Type(s)	Location(s)	Settings		
			Instant /Delay	Part Arm /Omit	Door-Chime
1					
2					
3					
4					
5					
6					
7	Smoke Detector(s)				
8	Medical Pendant(s)				





Use the above diagrams to record your 'House Code' and 'Siren Code', eg.,  **= ON**

Purchase date ---------- Installation date ----------

Control Unit serial number ----------

This information is highly confidential and should be kept in a very safe location.

EXTENDING YOUR RE5000S PROFESSIONAL WIRELESS ALARM SYSTEM

You may add additional Remote Controls, Standard Wireless Magnetic Contact Detectors and Wireless PIR Detectors etc, as required, to give additional protection where needed. The following accessories are also available to extend and enhance your system:-

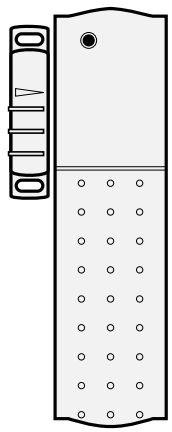
ADDITIONAL SOLAR WIRELESS SIREN & STROBE
RE5000SS

Additional Solar Wireless Siren & Strobes can be added to your RE5000S Professional Solar Wireless Alarm System to give a higher level of security. For example you could have a Siren & Strobe fitted to the front and rear of your premises.

A security coded signal sent from the Control Unit would be received by both Siren & Strobes simultaneously.

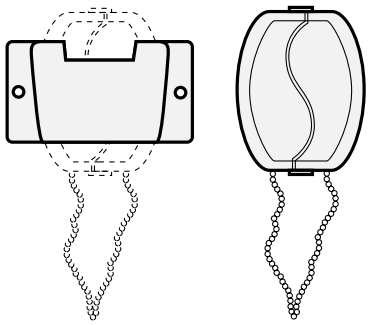
DUMMY SIREN & STROBE
RE5000D

Alternatively the Siren & Strobe is available as a Dummy design and acts as an excellent visual deterrent.



MAGNETIC CONTACT DETECTOR WITH HARD-WIRED INPUTS
RE5000MHW

In addition to the features and benefits of the standard RE5000M Magnetic Detector, this unit also incorporates facilities for hard-wiring in optional normally open and normally closed circuits, eg. additional Magnetic Contacts, Panic Buttons, Pressure Mats etc.



MEDICAL ALERT PENDANT
RE5000MP

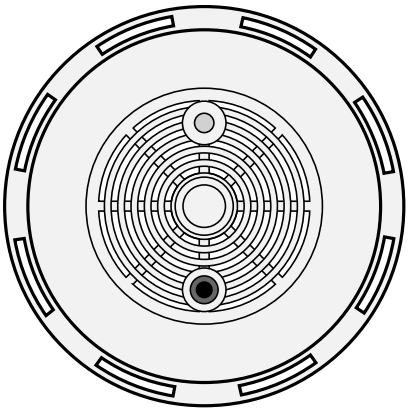
This small, lightweight transmitter unit is easily operated in the event of a medical emergency and transmits a Medical Alert signal to the Control Unit to trigger a Medical Alert on a dedicated Zone.

The Unit incorporates a neck-chain aerial and comes complete with bracket for wall mounted operation if required.

IMPORTANT **PLEASE REGISTER YOUR GUARANTEE WITHIN 14 DAYS OF PURCHASE**

EXTENDING YOUR RE5000S PROFESSIONAL WIRELESS ALARM SYSTEM

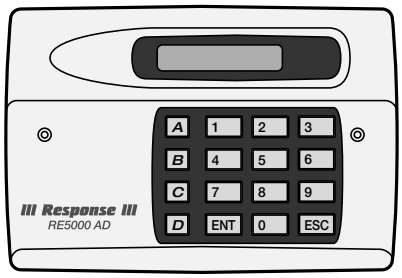
Continued.



WIRELESS SMOKE DETECTOR
RE5000SD

In the event of fire the battery operated Wireless Smoke Detector will send a security coded signal to your Control Unit which will activate your Alarm System. The Smoke Detector also has its own siren and when used with the RE5000S Wireless Alarm provides an exceptionally high level of safety to your home.

There is no limit to the number of Wireless Smoke Detectors you can use with your system and when used with the RE5000S Control Unit a separate Zone/Alarm output is activated and a Fire Alarm siren tone is sounded to identify that a fire signal has been received by the Control Unit.



SECURITY DIALLER
RE5000AD

Connects directly to your standard telephone line to automatically dial for help upon alarm activation.

Incorporates facilities for storing up to 4 x 24 digit telephone numbers and 3 separate trigger inputs/messages for intruder, fire and medical alert.

Ideal for informing neighbours or relatives of an alarm condition.

Note: Cannot be used for 999 or Police Link.

RESEARCH & DEVELOPMENT

Our R & D Department is constantly developing new products. We practice a policy of continued improvement and reserve the right to change specifications without prior notice.

IMPORTANT PLEASE REGISTER YOUR GUARANTEE WITHIN 14 DAYS OF PURCHASE

If you have a problem with your Alarm, or if you have an item that you feel requires replacement for whatever reason, please do not hesitate to call our Helpline on:

09062 777200

(Lines open 9.00am to 6.00pm, Monday to Friday. Calls charged at 25p per minute)

We can solve most problems quickly over the phone.

YOUR GUARANTEE

This product (excluding Alkaline batteries) is guaranteed for one year from the date of purchase against faulty materials or workmanship. We will repair or replace any faulty product. No liability can be accepted for any problems caused by fair wear and tear, buyers negligence, improper fitting or use, local radio interference, wilful or accidental damage, or any consequential loss or damage howsoever caused. This guarantee does not affect your statutory rights.

If an item develops a fault, the product must be returned to the address below in adequate packaging with:

1. A copy of your original invoice/receipt
2. A full description of the fault
3. All relevant batteries

PLEASE NOTE

If returning a Control Unit, make sure that the rechargeable battery is disconnected and removed. If returning an External Solar Siren & Strobe, make sure that the rechargeable battery and initial power up battery are disconnected and secure and that the unit is packaged to prevent damage in transit.

For security, Recorded or Registered Post is recommended.

Service Department, Response Electronics Plc
Longmead Business Centre, Blenheim Road
Epsom, Surrey KT19 9QQ

IMPORTANT – PLEASE REGISTER YOUR GUARANTEE WITHIN 14 DAYS OF PURCHASE

Guarantee Registration

To register your purchase and help us provide you with the latest information on system accessories and give the fastest possible service in the event of a problem, please take a minute to complete this registration and post it back to us, **in the Freepost envelope provided.** Don't forget to keep your receipt safely, as you will need it in the event of a claim.

PLEASE USE BLOCK CAPITALS THROUGHOUT

PURCHASED FROM

MODEL **RE5000S**

WHERE DID YOU FIRST HEAR OF THIS PRODUCT?

DATE OF PURCHASE

☐☐ **Date** ☐☐ **Month** **20** ☐☐ **Year**

OWNERS NAME (if purchased for business use, please give company name)

ADDRESS

Postcode

Telephone **E-mail**

TYPE OF USE (please tick) ☐ **Domestic** ☐ **Business**

What further comments would you wish to make about your Wireless Intruder Alarm System?

Response Electronics Plc are a leading supplier of home security and electrical products, including intruder alarms and residential CCTV. Please tick any of the following boxes for information you wish to be sent to you:

☐ *Solar Wirefree Intruder Alarms* ☐ *Other Wireless Intruder Alarm Systems* ☐ *Personal Attack Alarm*
☐ *CCTV Home Surveillance Systems* ☐ *Wired Alarm Systems* ☐ *Home Automation*

YOUR PEACE OF MIND AGAINST EXPENSIVE REPAIRS - FOR AN ADDITIONAL FOUR YEARS

No matter how good the quality of your Wireless Alarm System, we are sure you will agree that as it gets older the chances of it breaking down must inevitably increase.

This is where the EXTENDED WARRANTY can help.

For just £79.95 you can have peace of mind from expensive repairs to your system **AND ANY ACCESSORIES YOU HAVE PURCHASED** for an additional four years. That's the equivalent of just 39p a week!

This offer is not available after your normal guarantee has expired, so please complete and return the order form TODAY. If your product cannot be repaired then the EXTENDED WARRANTY will cover your product with a brand new replacement FREE OF CHARGE.

All we require is your date of purchase, your name and current address along with payment. Full written confirmation of acceptance will be forwarded to you by return of post.

IMPORTANT - Return your **Extended Warranty Application Form** (below) with your Guarantee Registration to give a total of five years cover!

ORDERED BY

Postcode **Telephone**

DELIVERY ADDRESS (if different)

Postcode **Telephone**

METHOD OF PAYMENT *(please tick)*

1. Please debit my credit card ☐ Mastercard ☐ Visa ☐ Delta ☐ Switch ☐ Solo - the sum of **£79.95.**

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ ☐☐☐ ☐☐ **Issue Number (Switch Only)** ☐☐/☐☐ **Start Date** ☐☐/☐☐ **Expiry Date**

2. I enclose my ☐ cheque ☐ postal order for **£79.95** made payable to Response Electronics Plc.

Signature _____ Date _____

FOR FREE ENTRY INTO OUR PRIZE DRAW

TO WIN A FANTASTIC PRIZE

(See the enclosed Prize Draw Offer Sheet for the current offer, plus Prize Draw Rules)

Either fill in your details overleaf and return the **GUARANTEE REGISTRATION FORM WITH** the **ENCLOSED PRIZE DRAW OFFER SHEET** within 14 days to:

Response Electronics Plc
Guarantee Registration Department
FREEPOST KT4437
Epsom, Surrey KT19 9BR

ALTERNATIVELY

you can register your Guarantee online via

www.responseplc.com

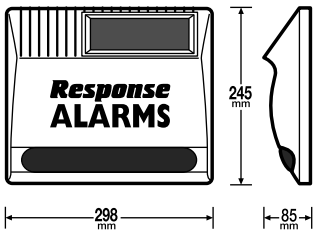
where you will automatically be entered into our current Prize Draw

RE5000S PROFESSIONAL SOLAR WIRELESS ALARM SYSTEM - SPECIFICATION

Response Electronics Plc are Quality Assurance Registered to BS EN ISO9002 1994, by SGS Yarsley ICS.

Solar Wireless Siren & Strobe

Order Code: RE5000SS



- Case material 3mm ABS
- Dual front and rear Anti-Tamper
- Internal Receiver and Aerial UK frequency 418MHz
- Sealed Lead Acid Battery 6V 1.2AHr
- Solar Panel 7.5V - Charge Rate typically 60mA
- Time out - Switchable 3 or 15 mins
- Xenon Strobe current 125mA (1watt)
- Quiescent current 850µA (typical)
- Piezo Sounder 105dB current 150mA
- Operation time in complete darkness - 40 days
- Anti-Foam
- Also available as Visual Deterrent Dummy Unit (order code RE5000D)

If you need help, just dial the Helpline for expert technical support

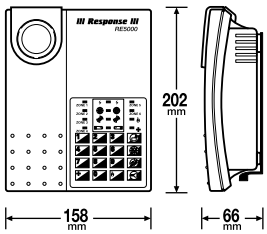
HELPLINE: 09062 777200

(Lines open 9.00am to 6.00pm, Monday to Friday. Calls charged at 25p per minute)

CE 0359

RADIO DEVICES FOR USE IN THE UK

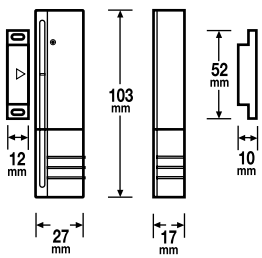
Control Unit



- 6 Fully Programmable Zones
- Separate Medical Alert & Fire Alarm Zones
- Integral 105db Siren
- 3 Siren Tones - Intruder, Fire, Medical Alert
- Zones programmable for:-
  - Entry delay
  - Part Arm/Zone omit
  - Door-Chime
- Entry delay - variable 10-180 secs
- Exit delay variable - 10-180 secs
- Alarm duration - variable 30 secs to 15 minutes
- Silent Alarm facility
- Self learn 'House Code'
- 4 digit User Access Code
- 4 digit Guest Code
- Quick Arm facility
- Test mode facility
- Combined fixing cover/ cover Anti-Tamper
- N.O./N.C. latching change-over contacts
- Sophisticated Jamming Detection Facility
- Individual Zone Alarm activation LED's
- Zone indication for Detector low battery
- Communicator/Dialler interface wiring
- Integral Solar Siren & Strobe transmitter
- Non volatile memory
- Integral Back-up battery
- Hard-wired Zone input facility
- Hard-wired Siren connection facility
- 12 Volt DC Axillary output facilities

Wireless Magnetic Contact Detector

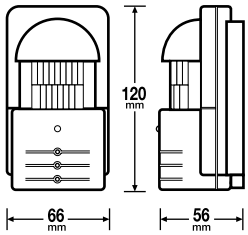
Order Code: RE5000M



- LED Battery confirmation
- Anti-Tamper
- Operating gap up to 10mm
- Door or window mounting
- Low Battery Indicator
- Alkaline Battery supplied

Wireless Passive Infra Red Detector

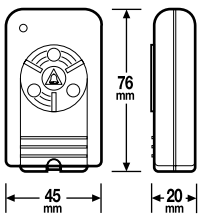
Order Code: RE5000P



- Detection range:- up to 5m at 180° and 14m at 110°
- Walk test facility
- RF Immunity
- Temperature Compensation
- Low Battery Indication
- Anti-Tamper
- Wall Bracket corner or flat surface mount
- Alkaline Battery supplied

Remote Control

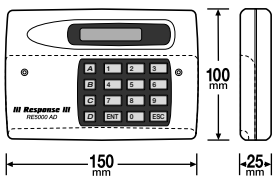
Order Code: RE5000R



- Disarm
- Part Arm
- Full Arm
- Personal Attack
- Alkaline Battery supplied
- Key Ring fixing

Security Dialler

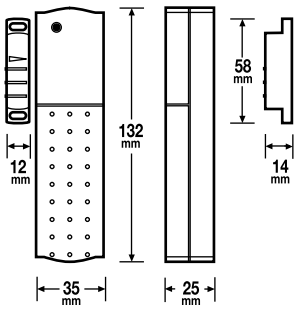
Order Code: RE5000AD



- Input Voltage 11.5-14V dc
- Current consumption 35mA standby 70mA active
- Trigger inputs A, B, C, D +ve or -ve applied, max 24V
- Phrase length (A, B, C, D, O) max 40 seconds
- REN value - 0
- Exchange compatibility - LD and DTMF (auto switching)
- Non Volatile Memory
- 4 x 24 digit phone number storage
- BABT/RTTE Approved

Magnetic Contact Detector (with hard-wired inputs)

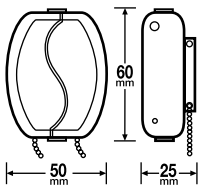
Order Code: RE5000MHW



- Door or window mounting
- Anti-Tamper
- Operating gap up to 10mm
- Low Battery Indication
- N.O. and N.C. Hard-wired input options
- LED Battery confirmation
- Alkaline battery supplied

Wireless Medical Pendant

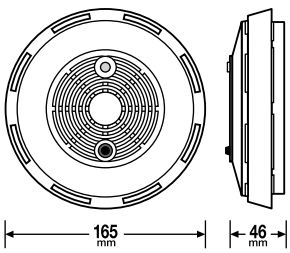
Order Code: RE5000MP



- Hand held; neck pendant or wall mounting options
- Wall bracket supplied
- Integral aerial
- Latching operation
- Reset facility
- Batteries supplied

Wireless Smoke Detector

Order Code: RE5000SD



- Optical Sensor element
- Security coded signal to Control Unit
- Battery test button
- Low Battery audio confirmation
- Integral Siren
- Requires alkaline battery

Response Electronics Plc. Longmead Business Centre, Epsom, Surrey KT19 9QQ.

visit our website: **www.responseplc.com**