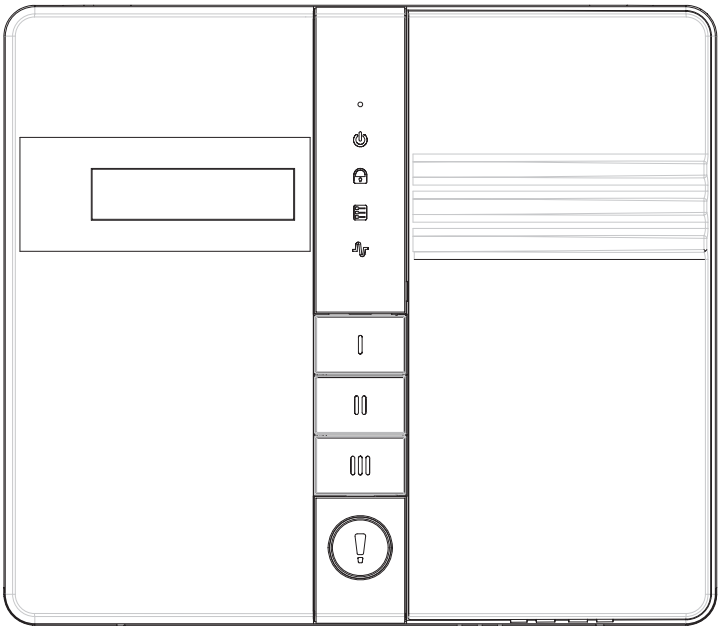
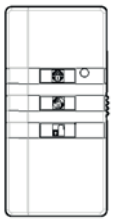
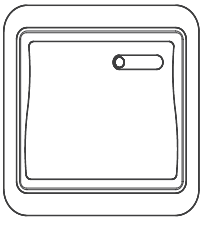
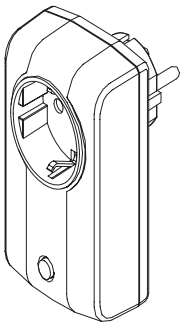
Home Integrated System

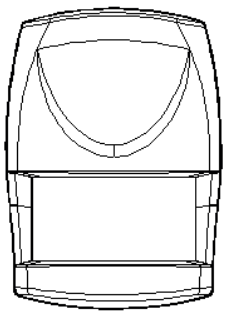
Wireless Security & Home Automation System

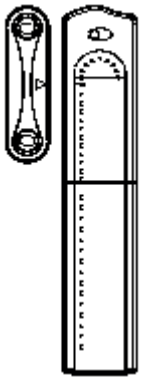












Installation & Operating Manual

CONTENTS

KIT CONTENTS

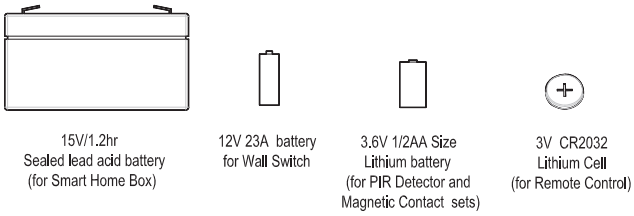
The Alarm System should contain the following components.

For HIS20S

1 x Smart Home Box
1 x Wireless Key
1 x PIR Detector
1 x Remote Control
1 x Magnet Contact Detector
1 x On/Off Receiver
1 x Wall Switch

Fixing pack:

2 x 15V/1.2Ahr Sealed lead acid battery
2 x 3.6V/950 mAhr 1/2 AA size
1 x 3V CR2032 Lithium
1 x 12V 23A size battery



15V/1.2hr Sealed lead acid battery (for Smart Home Box)
12V 23A battery for Wall Switch
3.6V 1/2AA Size Lithium battery (for PIR Detector and Magnetic Contact sets)
3V CR2032 Lithium Cell (for Remote Control)

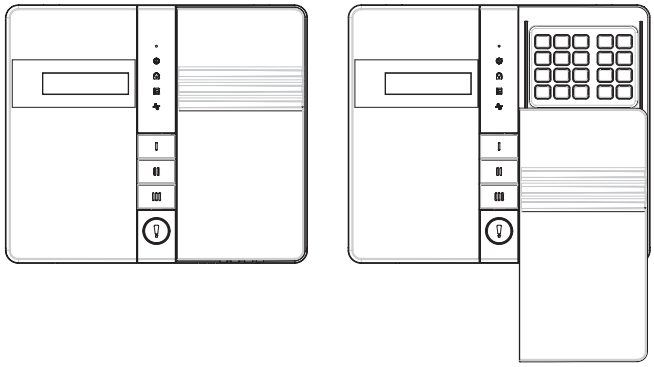
Also included:

Power Supply Adapter
Telephone Connection Lead
Quick Guide, PC UI Operation Manual
Installation & Operating Manual

Note: When inserting the lithium batteries to PIR Detector and Magnet Contact Detector, please take note of passivation phenomena on the lithium battery. Passivation is a chemical term and it refers to phenomena that a kind of chemical film appears on the surface of the metal and prevents the further corrupt from happening on the surface of the metal. The speed of passivation is related to the temperature. The higher the temperature is, the faster the speed is. The longer the time is, the more serious the passivation is. Please contact sales for advice about how to avoid the problem caused by passivation.

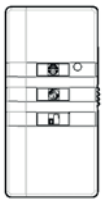
IMPORTANT

Please check all items as mentioned above are included in the package.

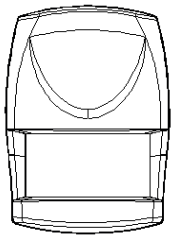


HIS20 Smart Home Box

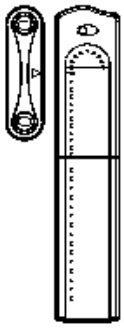
HIS20USB Wireless Key



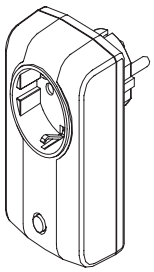
HIS20R Remote Control



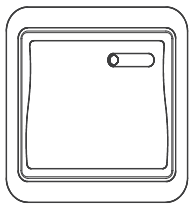
HIS20P PIR Detector



HIS20M Magnet Contact Detector



HIS20PS On/Off Receiver



HIS20W Wall Switch

INTRODUCTION AND OVERVIEW

MULTIPLE USERS

The system allows for up to 7 Users and an Administrator to be configured. This allows the system Event Log to maintain a record of which users have armed and disarmed the system. Each user will have a different Password. In addition a 3 second voice recorder facility enables the users name to be recorded for use with the Latch-Key facility.

Only the Administrator has access to the programming functions and is able to configure the system.

Note: Each Remote Control Units on the system will be recorded.

SYSTEM ARMING

The system has a 'Fully Arm', 'Holiday Arm', 'Night Arm' and 'Partial Arm'. 'Fully Arm' and 'Holiday Arm' will arm all zones while 'Night Arm' and 'Partial Arm' will only arm certain zones. The modes can be selected for the following purpose:

Fully Arm

When the property is left un-occupied, the 'Fully Arm' mode will arm all zones to protect the entire property for whole day long.

Holiday Arm

Holiday Arm is similar to fully arm mode except it supports the schedule and event function of home automation. If you are away from home for a holiday, the 'Holiday Arm' will arm all zones to protect the entire property while some set devices (e.g. On/Off receiver) will be activated at set time per your request. This will make your house looks as occupied.

Night Arm

The system could be configured such that during the night, detection of movements in the armed zones would automatically trigger the Green controls to turn on the lights so you don't have to fumble in the dark. This mode also supports both schedule and event function of home automation.

Note: Green control refers to the home automation device that is built in receiver.

Partial Arm

The system could be configured such that at noon, 'Partial Arm' would arm only zones protecting the lower floor and outbuildings leaving the upper floor free for movement without triggering the alarm.

ZONES

The system incorporates 32 wireless Alarm Zones for the connection of the system detectors that are used to independently monitor different areas of the property. In addition to standard intruder protection, each zone may also be configured to operate in one of four modes:

- '24-hour Intruder' mode provides 24 hour intruder protection for areas/zones where continuous monitoring is required, (e.g. gun lockers).

- 'Fire' mode provides 24 hour monitoring of any Fire/Smoke detectors incorporated into the system.

- 'Intruder' mode allows a zone to be monitored while the system is armed. If a detector on a test zone is triggered an entry will be recorded in the Event Log and an alarm will occur.

- 'Panic/PA' mode provides 24 hour monitoring of any emergency being occurred. Activation of any panic switch will immediately initiate a Full Alarm condition.

In addition there is the facility to connect 4 hard wired zones to the Smart Home Box, each of which is fully configurable with the same features as the wirefree zones (1-32).

ENTRY/EXIT DELAY

When the system is armed with Exit-Delay enabled, no alarm signal from any detector on an active zone will be able to initiate an alarm until the Exit-Delay has expired. This enables the system to be armed within the property and allows time for user to exit property without triggering an alarm. If Exit-Delay is disabled, detection of movements by the detector will initiate an alarm as soon as the system begins to arm.

The system Exit-Delay may be configured among 10, 30 seconds, 1, 2 and 4 minutes or off completely.

Similar mechanism works for Entry-Delay except it's for user entering the property. This period of time can be used to disarm the system before an alarm condition occurs.

The Entry-Delay for all zone may be configured among 10, 30 seconds, 1, 2 and 4 minutes or off completely.

QUICK SET

The system may be fully armed in 5 seconds using the quick set facility, overriding the programmed exit-delay. This is useful for setting the system at night when the exit-delay warning beep will be silenced after just a few seconds.

ZONE LOCKOUT

If a detector on an active zone is triggered while the system is armed, an alarm condition will occur. After the programmed alarm duration has expired, the alarm will stop. If a single zone initiates an alarm condition more than three times then that zone will be 'Locked Out' and any further alarm signals from that zone will be ignored until the system is disarmed.

Note: The 'Zone Lockout' feature can be disabled if required.

EVENT LOG

The Smart Home Box incorporates a memory capable of storing the last 100 system events. This enables the user to see which user has Armed/Disarmed the system and if and when any alarms occurred. The time, date and details of the event type will be recorded for each system event.

CHIME

Chime is a low security facility for use when the zone is disarmed. If the Chime feature is ON, and a detector on a zone that has its Chime function enabled is triggered, the internal sounder will produce a low volume warning tone. A typical use of the Chime function would be to warn that a door or particular area has been accessed.

VOICE DIALER

If the Voice Dialer is enabled and an alarm condition occurs, the system will call for help using your recorded alarm messages and up to ten telephone numbers.

When an alarm condition occurs, the telephone voice dialer (if enabled) will call the first enabled number in the calling sequence and replay the recorded alarm messages for the configured 'Play Time'. The recipient must acknowledge the message by pressing the * button on their telephone keypad. If the call is unanswered or an acknowledgment is not received then the next active number in the dialing sequence will be called. The dialer will continue calling each number in turn until either all numbers in the sequence have been dialed the set number of times or the sequence is cancelled/acknowledged by the recipient.

DIGITAL DIALER

As an alternative to the Voice dialer the system may be configured to interface with a central monitoring station.

LATCH KEY

When the system is disarmed the Latch-Key facility, if enabled, will call the first latchkey phone number among 10 phone number and replay the user message (recorded under user setup) for the set 'Play Time'. The recipient must acknowledge the message by pressing * button on the telephone keypad.

The voice dialer will continue calling the first latchkey phone number until it has been dialed the set number of times when the following conditions occur:

1. The call is answered but the recipient does not press * on the telephone keypad for acknowledgement.
2. The call is unanswered or an acknowledgement is not received.

For example, the latchkey facility is useful to inform parents that a child has returned from school and disarmed the system.

REMOTE SYSTEM CONTROL

It is possible to dial into the system via the connected telephone line to interrogate the system status and to have basic control over the system, (e.g. to Arm and Disarm the system). You may also activate the microphone on the Smart Home Box to Listen-In to what is happening in the protected property.

TAMPER PROTECTION

All system devices (except the Remote Control Units) incorporate Tamper protection features to protect against unauthorized attempts to interfere with the device. Any attempt to remove the battery covers from any device (except the Remote Control) or to remove the Smart Home Box from the wall will initiate an alarm condition (unless the system is in Test or Programming modes), even if the system is Disarmed.

JAMMING DETECTION

In order to detect any attempts to illegally jam the radio channel used by your alarm system, a special jamming detection function is incorporated into the Smart Home Box and Solar Siren. If this feature is enabled, and the radio channel is jammed continuously for 90 seconds, when the system is armed, the Solar Siren will emit a pre-alarm series of rapid bleeps for 3 seconds. If the jamming continues for a further 30 seconds or more a full alarm condition will occur. In addition if the system is jammed for more than three periods of 30 seconds in

a 5 minute interval, this will also generate a Full Alarm condition.

The jamming detection features in the Smart Home Box and Solar Siren operate independently.

The Jamming Detection circuit is designed to permanently scan for 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 Detection function permanently enabled.

BATTERY MONITORING

In addition to the battery monitor and low-battery indicators in each device, the Smart Home Box will also indicate a low battery status within any Passive Infra-Red or Magnetic Contact Detector on the system using the Event log.

ID CODE LEARNING

In order to prevent any unauthorized attempt to operate or disarm your system, you must configure your system to accept radio signals only from your own system devices. All detectors and Remote Control Units have their unique ID codes, and the Smart Home Box must learn their codes individually for the system to operate correctly.

For the PIR and Magnetic Contact Detectors, simply pressing the tamper switch located adjacent to the PCB will emit the ID code to the Smart Home Box instantly with the Smart Home Box being set at the Security Sensor zone.

For the Remote Control, pressing the  button on the Remote Control will emit the ID code to the Smart Home Box instantly with the Smart Home Box being set at the User setup mode.

For the Green Control or Green Remote/Sensor, please pay particular attention to the device learning sequence.
Note: Green Remote/Sensor refers to the home automation device that is built in transmitter.

HOME AUTOMATION

How to make your daily life more convenient? You can set certain light fixtures or home appliances to work at set times. Through settings of Holiday Arm or Night Arm, you can achieve a better quality of life.

DISTANCE CONTROL & FEEDBACK

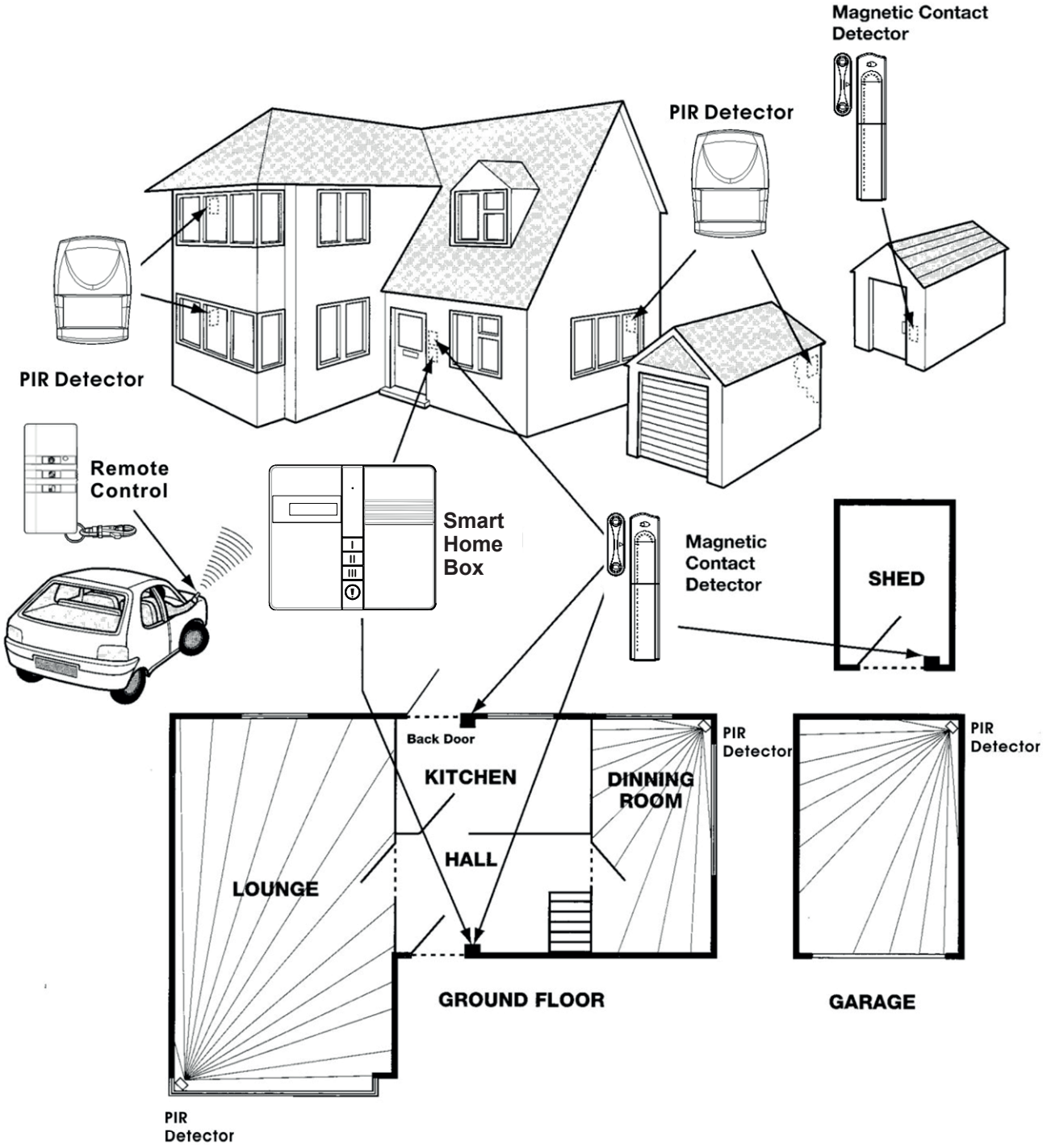
You can achieve the controlling function of enhanced devices (i.e. devices with 868MHz radio frequency) via GSM Gateway or IP Gateway if they are enabled. If alarm condition occurs, the SMS message/mail will be transmitted to you as a warning report.

BACKUP & RESTORE

There might be times when you wish to save a system setting for later retrieval. You can achieve this function via setting of backup & restore.

PLANNING AND EXTENDING YOUR WIREFREE ALARM SYSTEM

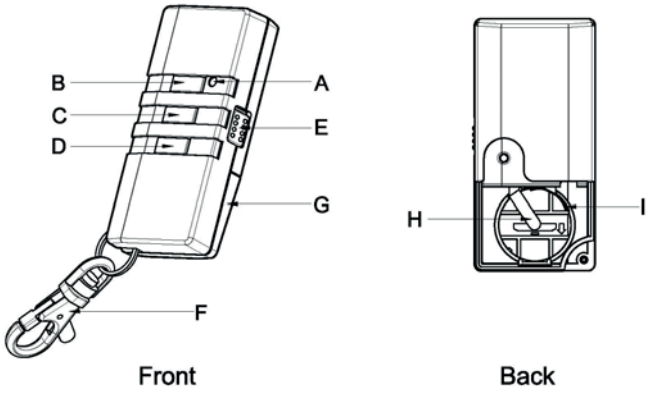
The following example shows a typical property incorporating the suggested positions for the Smart Home Box, PIR, Magnetic Contact Detectors and Wall Switch for optimum security and home automation. You can use this as a guideline for planning your intruder alarm and home automation system.



Before attempting to install Alarm System, it is important to study your security requirements and plan your installation. The alarm system may be extended to provide even greater protection by fitting additional PIR Detectors and Magnetic Contact Detectors as required.

As for planning of home automation, it is also suggested to fit additional Green Control and Green Remote/Sensor to achieve better control of your home appliances.

REMOTE CONTROL UNIT



A	LED indicator	F	Key Chain Ring
B	Fully Arm/Holiday Arm	G	Battery Cover
C	Night Arm/Partial Arm	H	Negative Polarity
D	Disarm	I	Positive Polarity
E	Panic Switch		

The Remote Control Unit is used to Fully Arm/Holiday Arm, Night Arm/Partial Arm and Disarm the system.

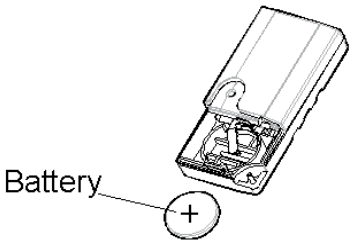
The Remote Control also incorporates a Panic switch. Activating the Panic switch will immediately initiate a Full Alarm condition whether the system is Armed or Disarmed, (unless the system is in Service, Test or Program mode).

The Remote Control adopts a CR2032 type Lithium cell which under normal conditions will have typical life in excess of 1 year. Under normal battery conditions the LED on the Remote control will only illuminate when a button is pressed. However, under low battery conditions this LED will flash every time the button is pressed. When this occurs the batteries should be replaced as soon as possible.

SETTING THE REMOTE CONTROL

1. Remove the rear cover by undoing the small screw on the rear of the Remote Control.

2. Insert the battery ensuring that the +v terminal faces upwards away from the PCB.



3. Replace the rear cover and fixing screw.

4. In order to communicate with the Smart Home Box, the ID code of the Remote Control needs to be learned by the Smart Home Box.

   a. Set the Smart Home Box into '1. User Setup' and press ↵ .
   b. Select which administrator/user will carry the remote control and press ↵ .
   c. Select ':7 Remoter' and press ↵.
   d. '7-1 LearningID' will be shown and press ↵

   By pressing the 🔓, 🔒 or 🔒 on the Remote Control will emit the ID code to the Smart Home Box instantly.

SMART HOME BOX

LOCATING THE SMART HOME BOX

When choosing a suitable location for the Smart Home Box, the following points should be considered.

1. The Smart Home Box should be located in a position out of sight of potential intruders and in a safe location, but easily accessible for system operation.

2. The Smart Home Box should be mounted on a sound flat surface to ensure that the rear tamper switch on the Smart Home Box is closed when the Panel is mounted. The Smart Home Box should be mounted at a convenient height of between 1.3m and 1.5m and in a position where it will be seen each day.

   Note: If small children are in the household, a further consideration should be given to keeping the units out of their reach.

3. It is recommended that the Smart Home Box should be positioned such that the Exit/Entry tone (emitted by the Smart Home Box) can be heard from outside the property.

4. The Smart Home Box should be mounted within a protected area so that any intruder cannot reach the Smart Home Box without opening a protected door or passing through an area protected by a PIR detector when the system is armed.

5. The Smart Home Box must be located within reach of a mains socket.

6. If the telephone based functionality is to be used then the Smart Home Box will need connecting to a convenient telephone point.

   Note: It is recommended that the telephone connection lead is not extended beyond 5m before

connecting to a telephone master or secondary outlet.

7. Do not locate the Smart Home Box closer than 1m to any large metallic object, (e.g. mirrors, radiators, etc) as this may affect the radio range of the Smart Home Box.

MOUNTING THE SMART HOME BOX

1. Undo the two captive fixing screws on top of the panel and open the cover. The cover is hinged along the bottom edge.

2. Unclip and remove the two back-up batteries on upper and lower right hand side of the panel.

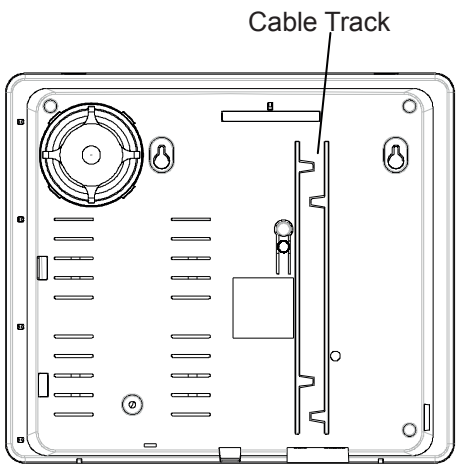
3. Route the cable from the Power Supply Unit up behind along the cable track on the right hand side of the Smart Home Box, and connect the plug to the DC power socket in the panel. Ensuring that the cable is not trapped between the panel and the wall.

4. **Use the fixing template provided (p.56) to mark the position of two fixing holes on the wall**. Drill two holes, and insert the supplied plastic wall plugs and then fit two screws into the wall plugs until almost fully home. Hang the Smart Home Box over these screws using the two keyhole slots on either side of the top corners of the panel casing.

5. Fix the Smart Home Box by inserting a fixing screw into the lower fixing hole in the panel and tighten the screw until it just grip the casing. Do not over tighten the fixing screws as this could damage or distort the casing.

6. Ensure that the 'Reset' (P1) and the 'Hard-Wired Siren tamper detect' (P51) jumper links are set in the OFF position.

7. Connect battery leads to both back-up batteries and refit batteries.



Battery 1 (upper): Blue lead to +ve battery terminal
Black lead to –ve battery terminal

Battery 2 (lower): Red lead to +ve battery terminal
Blue lead to –ve battery terminal

IMPORTANT: Take care when connecting battery leads to the batteries as connecting incorrectly could damage the batteries or the Smart Home Box.

Note: The Power LED may flash to indicate that the unit is being operated from the back-up batteries and that mains supply is not present.

8. If fitted, remove the plastic film covering the LCD display and on the display window on the cover.

9. Close the lid of the Smart Home Box and tighten the captive fixing screws.

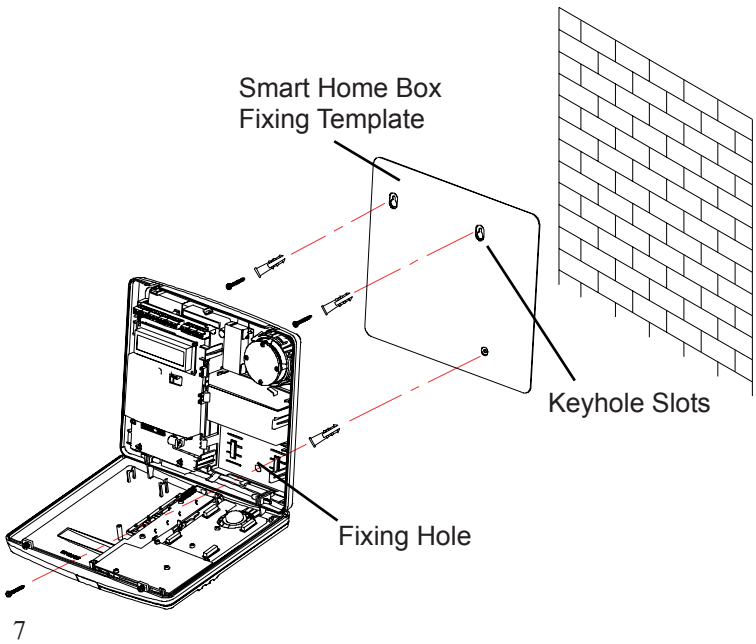
10. Plug in and switch ON the Power Supply Unit, (the Power LED should illuminate).

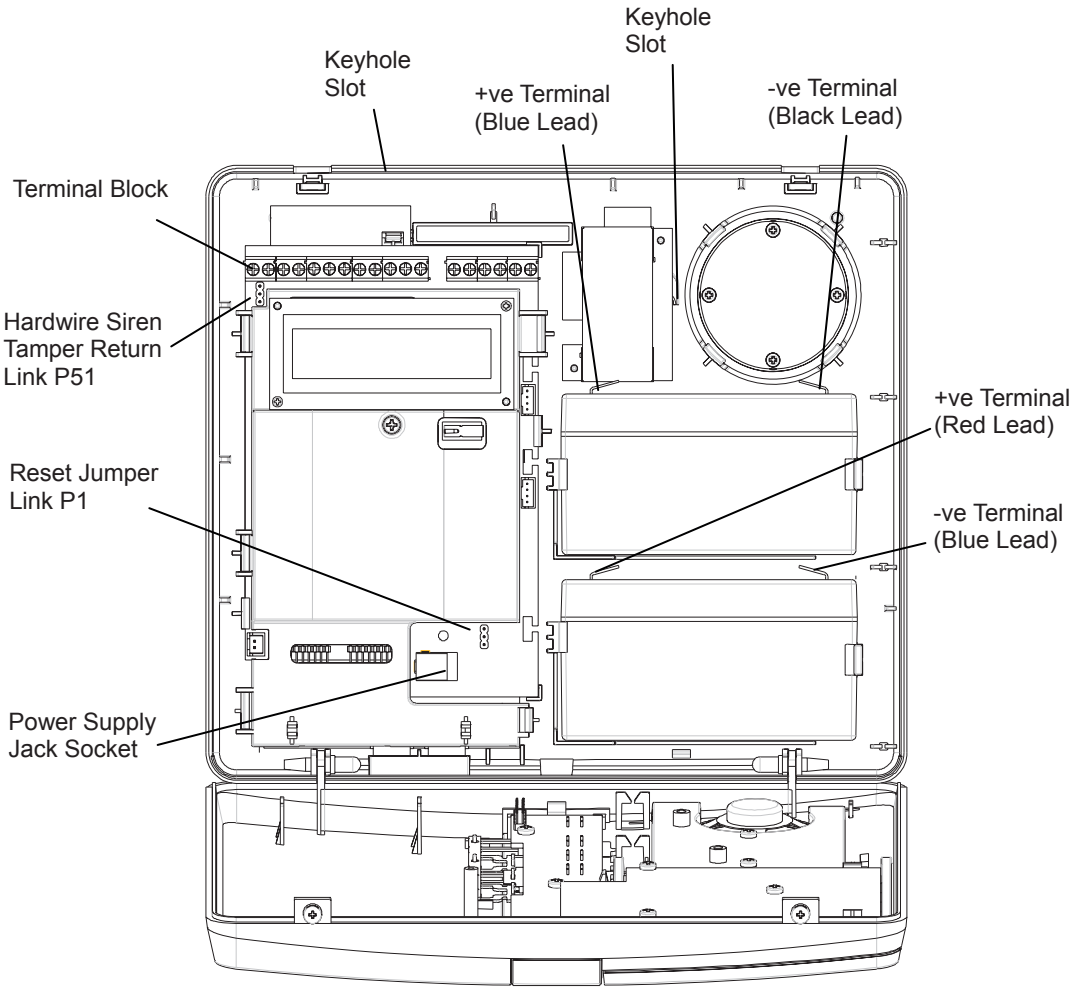
11. If required, connect the Smart Home Box to the telephone line using the cable supplied by inserting small RJ11 plug into socket marked LINE located on the bottom edge of the Smart Home Box.

    If the cable supplied is not long enough to reach a suitable phone point then it will need extending using a coupler and extension lead (not supplied).

    Note: If the Tamper of Smart Home Box alarm sounds during the installation reset the alarm by pressing:

on the Smart Home Box Keypad.





Inside View of Smart Home Box

TESTING THE SMART HOME BOX & REMOTE CONTROL

1. Press
   
   to put the system into Test mode.
   'WALK TEST' will be displayed.

2. Press  to activate Walk Test.
   ' Walk Test Waiting…' will be displayed.

3. Press the 'ARM' button on the Remote Control. As the key is pressed the Smart Home Box will chime and the type of the device and button will be shown on the display.

   Press the other buttons on the Remote Control in turn, as each button is pressed the Smart Home Box will chime and show the button being pressed on the display.

4. Test the range of the Remote Control by pressing the 'DISARM' button on the Remote Control from in and around the property and from all locations where you plan to install detectors. Check that the Smart Home Box acknowledges the signal from the Remote Control each time the 'DISARM' button is pressed.

5. Press  to return to the top level menu of TEST MODE.

PASSIVE INFRARED DETECTORS

PIR detectors are designed to detect movement in a protected area by detecting changes in infra-red radiation levels caused when a person moves within or across the devices field of vision. If movement is detected an alarm signal will be emitted, (if the system is armed and the alarm zone active).

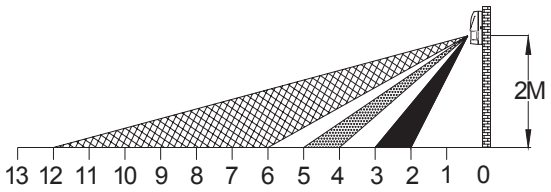
Note: PIR detectors will also detect animals, so ensure that pets are not permitted access to areas fitted with Passive Infra-Red Detectors when the system is armed.

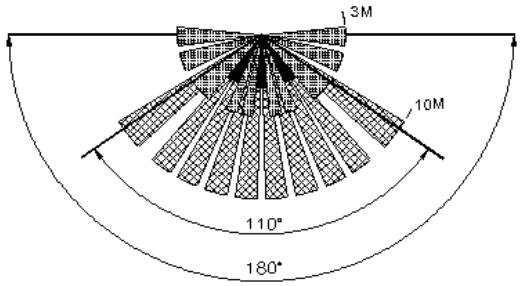
The PIR Detector adopts a 1/2 AA size 3.6V Lithium battery which under normal conditions will have typical life in excess of 4 years. When the battery level drops, with the PIR in normal mode and the battery cover fitted, the LED behind the detection window will flash upon detecting movement. When this occurs the batteries should be replaced as soon as possible.

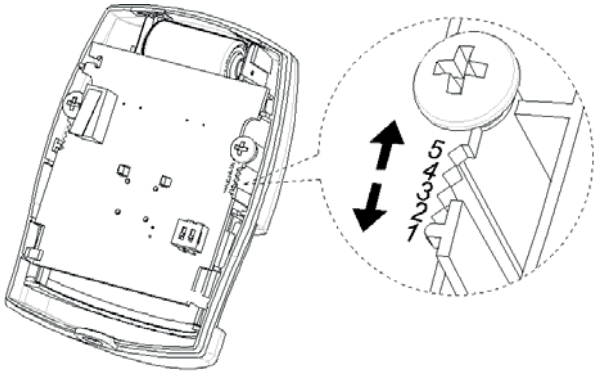
CHOOSING A MOUNTING LOCATION

The PIR Detector is suitable for mounting in dry interior locations only.

The recommended position for a PIR Detector is in the corner of a room mounted at a height between 1.8 and 2m. At this height, the detector will have a maximum range of up to 10m with a field of view of 110°, subject to the position for the PCB being set in 5. The position of the PCB inside the PIR can be set to 5 different positions to adjust the range of the detector. Setting the PCB in position 3 will reduce the range to 7m approximately, with position 1 providing a range of 5m approximately. The recommended position setting for the PCB is in position 5.







PCB Position	Range
1	5m
3	7m
5	10m

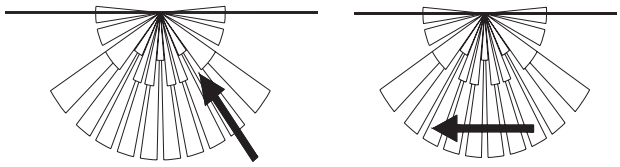
When considering and deciding upon the mounting position for the detector the following points should be considered to ensure trouble free operation:

1. Do not locate the detector facing a window or where it is exposed to or facing direct sunlight. PIR Detectors are not suitable for use in conservatories.

2. Do not locate the detector where it is exposed to ventilators.

3. Do not locate the detector directly above a heat source, (e.g. fire, radiator, boiler, etc).

4. Where possible, mount the detector in the corner of the room so that the logical path of an intruder would cut across the fan detection pattern. PIR detectors respond more effectively to movement across the device than to movement directly towards it.



Less Sensitive More Sensitive

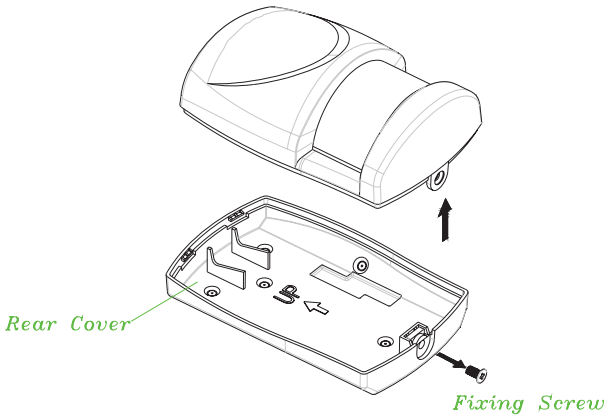
5. Do not locate the detector in a position where it is subject to excessive vibration.

6. Ensure that the position selected for the PIR detector is within effective range of the Smart Home Box.

INSTALLING THE PIR DETECTORS

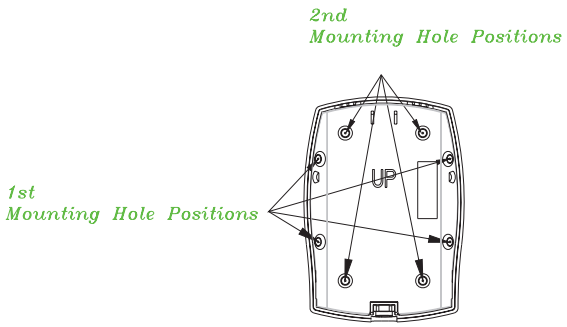
Ensure that the system is in Test Mode.

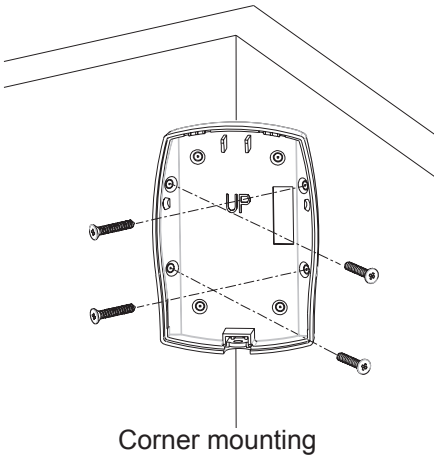
1. Undo and remove the fixing screw from the bottom edge of the PIR. Carefully pull the bottom edge of the detector away from the rear cover and then slide down to release the top clips.



2. Carefully drill out the required mounting holes in the rear cover using 3mm drill according to whether the unit is being mounted in a corner or against a flat wall.

Note: Using 1st mounting hole to fulfill corner mounting installation, while 2nd mounting hole for flat wall installation.





Corner mounting

3. Using the rear cover as a template, mark the positions of the fixing holes on the wall.

4. Fix the rear cover to the wall using the two 18mm No.4 screws and 25mm wall plugs, (a 5mm hole will be required for the wall plugs). Do not over-tighten the fixing screws as this may distort or damage the cover.

5. Configure the PIR detector as described below. Remember that on initial installation that the device needs to be tested and should therefore be set in Walk Test Mode.

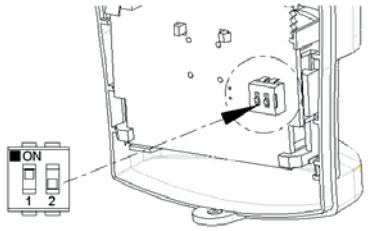
6. Check that the detector PCB is located and set in the correct position to provide the required detection range. To adjust the PCB position, simply slide it up or down ensuring that the location legs are aligned with the required position number marked on the board.

7. To refit the PIR detector to the rear cover and locate the clips in the top edge into the rear cover. Push the lower edge of the detector into place and refit the fixing screw in the bottom edge of the PIR to secure in position. Do not over-tighten the fixing screws as this may damage the casing.

SETTING THE PIR DETECTORS

Located on the PCB of the PIR Detector is a two-position DIP switch (SW2). When conducting the Walk Test, ensure that the DIP switch SW2 is set as follows:

SW2	DIP1	DIP2
ON	✓	
OFF		✓



Dip Switch
(SW2)

1. DIP1 of SW2 is used to configure the PIR Detector for walk test mode, which allows the operation of the detector to be checked during installation without triggering a Full Alarm.

ON	Walk Test mode
OFF	Normal mode

Note: On initial installation the detector should be set into Walk Test mode ready for testing. Upon completion of Walk Test mode, set DIP1 of SW2 to OFF for normal detection mode.

2. The PIR Detector incorporates an anti-false alarm feature designed to compensate for situations where the detector may be affected by environmental changes, (e.g. insects, air temperature, etc). This feature is called “sensitivity detection” and may be selected for high or low detection.

The recommended setting is for high sensitivity detection. However, in cases of extreme environmental problems or if unattributable false alarms are experienced, it may be necessary to select low sensitivity detection.

Set the required sensitivity detection using DIP2 of SW2 as follows:

ON	high sensitivity detection
OFF	low sensitivity detection

Note: The higher the sensitivity detection the less movement will be necessary before the PIR detector will trigger the alarm.

3. The setting of the DIP1 & DIP2 of SW2 can be distinguished from the LED indication as follows:

On/Off Selection	DIP1 of SW2	DIP2 of SW2	Trigger reaction of LED
ON	Walk Test mode	High Sensitivity	LED will be on once. It implies high sensitivity.
		Low Sensitivity	LED will flash twice. It implies low sensitivity.
OFF	Normal mode	High/Low Sensitivity	LED does not light up.

In summary, the setting of DIP1 & DIP2 of SW2 is concluded as below:

SW2	DIP1	DIP2
ON	Walk Test Mode	High sensitivity
OFF	Normal Mode	Low sensitivity

4. Connect the 1/2 3.6V Lithium battery to the battery spring.

   Note: When the battery is connected, the LED behind the lens will flash for 2-3 minutes as warming-up duration until the PIR has stabilized when the LED will then stop flashing and turn OFF.

5. In normal mode, remove the rear cover of the PIR detector. The Detector's LED will illuminate and the Smart Home Box should beep. It is because the tamper switch fitted on the Detector has been activated.

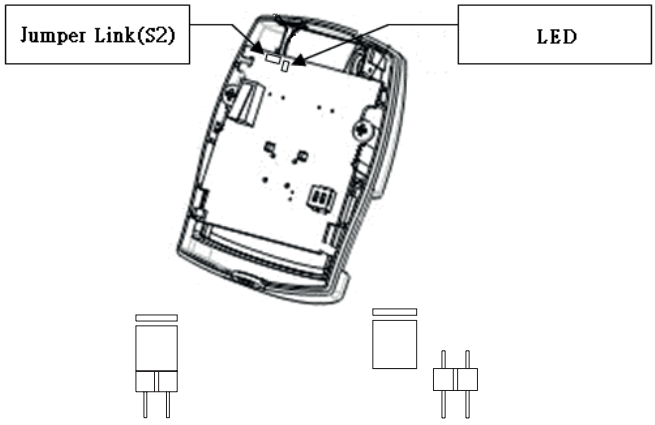
6. When the Detector is fully installed i.e. battery cover is refitted; the Detector will not detect movement for approximately 2 minutes after each activation. (This feature is present to conserve battery power and maximize the battery life).

7. In order to communicate with the Smart Home Box, the ID code of the Detector needs to be learned by the Smart Home Box. To proceed with ID code learning.

   a. Set the Smart Home Box into '3. Security Sensor Zone' and press ↵.
   b. Select '3-1 Wireless Sensor Zone' and press ↵.
   c. 'Input (01-32) Sensor Zone' and press ↵.
   d. An indication of ':1 Learning ID' will be shown and press ↵.

   By pressing tamper switch located adjacent to the PCB on the Detector will emit the ID code to the Smart Home Box instantly.

8. For quick start, jumper link (S2) will quick start the battery this will take approx. 2 minutes. By placing the jumper link (S2) into position, the LED adjacent to the (S2) jumper link will become illuminated, this implies the battery start up has been completed. It is important to remove the jumper link (S2) after this has been observed to save battery power.



Jumper link (S2)

Note: On first battery start up, because of the nature of the battery protection the battery may incur a low battery status and may not start up straight away, but will automatically start within 10 minutes.

Note: Only one of pins of Jumper link (S2) will be inserted in position as factory default setting.

TESTING THE PIR DETECTORS

Ensure that the system is in Test Mode.

With the PIR detector set in Test mode and mounted in position on the wall, allow 2-3 minutes for the detector to stabilize before commencing the Walk Test.

1. Press

to put the system into Test mode.
'WALK TEST' will be displayed.

2. Press  to activate Walk Test.
' Walk Test Waiting…' will be displayed.
3. Walk into and move slowly around the protected area, each time the detector senses movement the LED behind the lens will flash. In addition, the Smart Home Box will chime to indicate that the alarm signal has been received and the identity of the zone that the detector is configured for will be displayed.

If necessary adjust the detection range by changing the mounting position of the PCB within the PIR housing.

Note: In normal operation, the LED behind the PIR lens will not flash on movement detection, (unless the battery is low).

If necessary re-adjust the detection pattern by changing the mounting position of the PCB within the PIR housing.

4. Remove the back cover of the PIR detector. The Smart Home Box should chime and display 'PIR Detector Tamper' to show that the detector's tamper switch has been activated.

5. Press  to return to the top level menu of TEST MODE.

6. Reconfigure the PIR Detector for normal mode by setting DIP1 of SW2 to OFF and refit in position.

Note: When the detector is fully installed i.e. battery cover is refitted; the unit will not detect movement for approximately 2 minutes after each activation. (This feature is present to conserve battery power and maximize the battery life).

MAGNETIC CONTACT DETECTOR(S)

The Magnetic contact consists of two parts; a Detector and a Magnet. They are designed to be fitted to doors or windows with the Magnet mounted on the opening part and the Detector mounted on the fixed frame. Opening the protected door/window will remove the magnetic field, trigger the Detector and generate an alarm condition, (if the system is armed and the alarm zone active).

The Detector is powered by one 3.6V 1/2 AA size Lithium cells which under normal conditions will have typical life in excess of 5 years. Under normal battery conditions with battery cover fitted the LED on the Detector will not illuminate when the Detector is triggered, (unless in test mode). However, under low battery conditions this LED will be illuminated when the detector is triggered. When this occurs the battery should be replaced as soon as possible.

For double security, there are two tamper switches fitted on the Detector. Either removing the Detector from the protected door/window or removing the battery cover will generate a full alarm condition.

The Magnetic Contact Detector is of self-contained wired Magnetic Contact. This contact must be of a normally closed contact type with the contacts being opened in order to generate an alarm condition.

CHOOSING A MOUNTING LOCATION

The Magnetic Contact Detector is suitable for mounting in dry interior locations only.

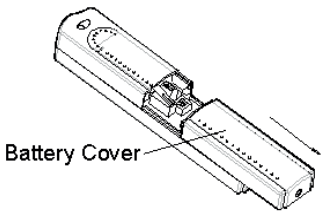
Decide which doors/windows are to be protected by Magnetic Contact Detectors, (usually the front and back doors as a minimum will have Magnetic Contact Detectors fitted). Additional detectors may also be fitted where required to other vulnerable doors or windows, (e.g. garage, patio/conservatory doors etc).

Note: Take care when fixing the Detector to a metal frame, or mounting within 1m of metalwork (i.e. radiators, water pipes, etc) as this could affect the radio range of the device. If required, it may be necessary to space the magnet and detector away from the metal surface using a plastic or wooden spacer to achieve the necessary radio range.

INSTALLING THE MAGNETIC CONTACT DETECTORS

Ensure that the system is in Test Mode.

1. Undo and remove the fixing screw from the bottom edge of the Detector. Remove the battery cover by sliding and lifting it off. (DO NOT use a screwdriver to lever the cover off).



2. Fit the 3.6V Lithium battery supplied, with the negative (-) towards the battery spring.
3. Mount the Detector to the fixed part of the frame along the opening edge opposite the hinges using either the double sided adhesive tape or screws provided.

   If fixing the Detector with screws; fit the Keyhole slot in the top of the Detector over the head of the smaller pan-head screw. Secure the bottom of the Detector using the 12mm countersunk head screw fitted within the battery compartment. You will need to drill out the centre of the fixing screw hole using a 3mm drill. Do not over tighten the fixing screws as this may distort or damage the casing.

4. Fit the Magnet to the moving part of the door/window opposite the Detector using the adhesive tape or 15mm fixing screws.

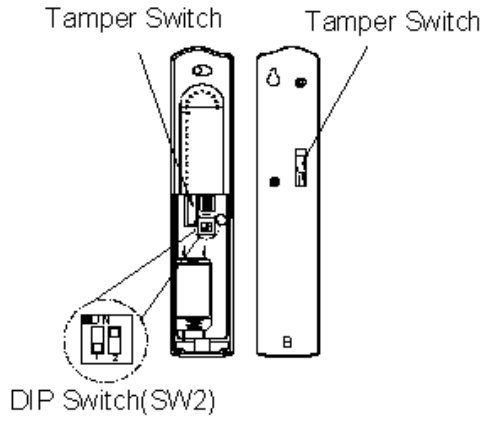
   Ensure that the parallel gap between the Magnet and Detector is less than 10mm and that the arrow on the Magnet is pointing towards and aligned with the mark on the Detector.

5. If several windows need to be protected, remove the self-contained wired supplied and adopt the wire according to the specifications as mentioned below. This should be wired to the terminal block provided in the battery compartment in series connection. The wired contact should be connected using two core (24AWG) wire of maximum length 1.5m.
   A cable entry cut-out is available and adjacent to the terminal block.

6. Refit the battery cover.

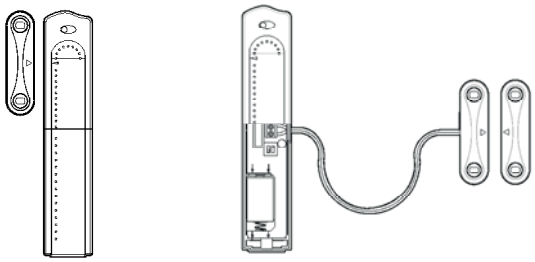
SETTING THE MAGNETIC CONTACT DETECTORS

1. Located on the PCB of the Detector is a two-position DIP switch (SW2).



2. DIP switches 1-2 are used to enable/disable the internal or external wired magnetic contact.

On/Off Selection	DIP1 of SW2	DIP 2 of SW2
ON	Internal on	External on
OFF	Internal off	External off



Internal connection External wired connection

If setting the DIP1 & DIP2 to 'Off', only the internal contact will be active. When two contacts are in use for internal and external connection simultaneously, one activation will be counted if one of the contacts is opened; while both contacts must be all close, the Detector will then be treated as close.

3. If external contacts are wired to the Detector, set the DIP1 to 'Off' and DIP2 to 'On'.

   IMPORTANT: If external contacts are not connected, set the DIP1 to 'On' and DIP2 to 'Off' for the detector to operate correctly.

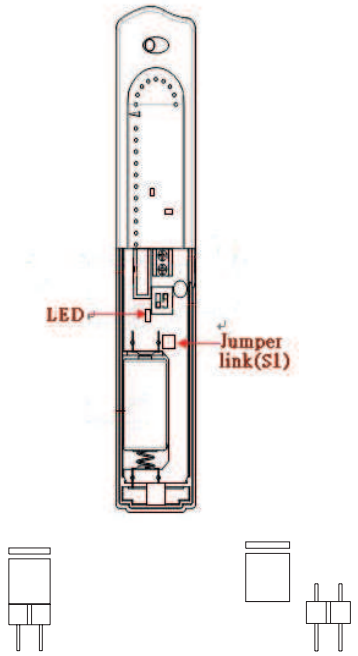
4. In order to communicate with the Smart Home Box, the ID code of the Detector needs to be learned by the Smart Home Box. To proceed with ID code learning:

   a. Set the Smart Home Box into '3. Security Sensor Zone' and press ↵ .

b. Select '3-1 Wireless Sensor Zone' and press ↵.
c. 'Input (01-32) Sensor Zone' and press ↵.
d. An indication of ':1 Learning ID' will be shown and press ↵.

By pressing tamper switch either located adjacent to the PCB or rear cover of the Detector will emit the ID code to the Smart Home Box instantly.

5. For quick start, jumper link (S1) will quick start the battery this will take approx. 2 minutes. By placing the jumper link (S1) into position, the LED adjacent to the (S1) jumper link will become illuminated, this implies the battery start up has been completed. It is important to remove the jumper link (S1) after this has been observed to save battery power.



Jumper link (S1)

Note: On first battery start up, because of the nature of the battery protection the battery may incur a low battery status and may not start up straight away, but will automatically start within 10 minutes.

Note: Only one of pins of Jumper link (S1) will be inserted in position as factory default setting.

TESTING THE MAGNETIC CONTACT DETECTORS

Ensure that the system is in Test Mode

1. Press

to put the system into Test mode.
'WALK TEST' will be displayed.

2. Press ↵ to activate Walk Test.
' Walk Test Waiting…' will be displayed.

3. Remove the battery cover by sliding off. As the battery cover is removed the LED on the Detector will illuminate for approx. 1 second to indicate that the tamper switch has been activated. In addition, the Smart Home Box will chime to indicate that an alarm signal has been received and 'Magnetic Contact Tamper' will be displayed.

4. Open the door/window to detach the magnet from the Detector. As the magnet is parted from the detector the LED will illuminate for approx. 1 second to indicate that the Detector has been triggered. In addition, the Smart Home Box will chime to indicate that an alarm signal has been received and the identity of the zone that the detector is set for will be displayed.

Note: In normal mode with the battery cover fitted, the LED on the detector will not illuminate when the detector is triggered, (unless the battery is low).

5. If connected, operate the wired Magnetic Contact. As the contact is opened the LED on the Detector should illuminate for 1 second to indicate that it has been triggered and the Smart Home Box will acknowledge the alarm signal.

6. Refit the battery cover on the Detector.

7. Press ESC to return to the top level menu of TEST MODE.

ON/OFF RECEIVER

It is a plug-in receiver to receive the Radio Frequency signal from the Smart Home Box and through the Smart Home Box controls the On/Off status of the plug-in light fixture or home appliances.

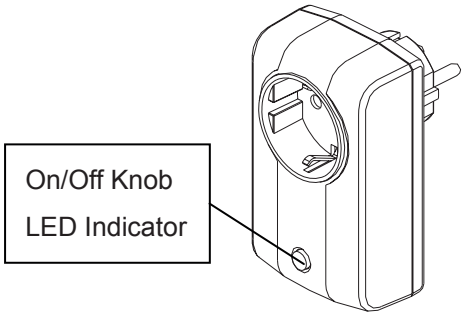
INITIAL POWER UP

Plug the receiver to the electrical outlet, the LED on the receiver will be flashing slowly. This implies that the receiver does not memorize any ID code and cannot be controlled by the Smart Home Box. However, pressing the On/Off knob will control directly the On/Off

status of the plug-in light fixtures or home appliances without controlling via Smart Home Box.

LEARNING ID CODE

In order to communicate with the Smart Home Box, the Smart Home Box will send ID code to the receiver. To proceed with ID code learning:



1. In the front cover, there is an On/Off knob with LED indicator.

2. Press the knob for 3 seconds until the LED flashes rapidly, and then release the knob. The receiver is about to learn the ID code.

3. Set the Smart Home Box into Home Automation mode. Select '6-1 Green Control', input Green Control number and select ':1 Link Panel to Receiver' so as to emit the ID code to Green Control.

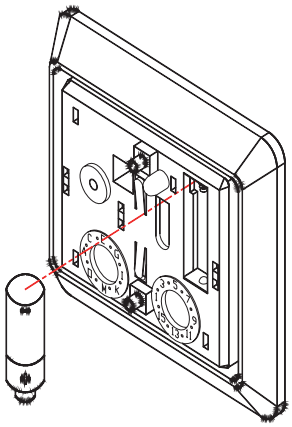
4. If the receiver learns the ID code properly, the LED will turn on and then off. If failure, re-try step (2), (3) as mentioned above.

Note: DO NOT connect the receiver to light fixture, electrical fans or other appliances to avoid possible dangers which might be caused by ON/OFF test.

WALL SWITCH

INSERTING THE BATTERY

1. Using a flat screwdriver to detach the front case. Fit the 23A 12V battery in the compartment with battery leads '+' to '+' and '-' to '-'.



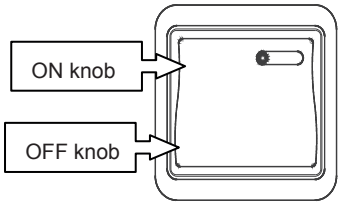
2. By pressing the wall switch, the LED will illuminate, implying that the battery has been inserted properly.

EMITTING ID CODE

In order to communicate with the Smart Home Box, the wall switch will send ID code to the Smart Home Box. To proceed with ID code learning.

1. Set the Smart Home Box into Home Automation mode. Select '6-2 Green Remote/Sensor', input Green Remote/Sensor number and select ':1 Learning ID'. Wait for the wall switch to send ID code to the Smart Home Box.

2. Press the OFF knob, a command of OFF signal and ID signal will send out. Keep holding the OFF knob for more than 3 seconds until the Smart Home Box learns the ID code successfully.



INSTALLATION

For the best results, fix the wall switch on a solid surface, 1.2m above the ground. To affix the wall switch to an existing wall box, simply secure the bottom case to the wall box using the 2 screws provided. Alternatively, you may use the double-side tape provided to affix it anywhere you desire. After installing, replace the front case.

TESTING THE WALL SWITCH

Ensure that the system is in Test Mode

1. Press , 1, 2, 3, 4,

   to put the system into Test mode.
   'WALK TEST' will be displayed.

2. Press to activate Walk Test.
   ' Walk Test Waiting…' will be displayed.

3. By pressing ON or OFF knob each time, the Smart Home box will chime in response.

EXTERNAL CONNECTIONS

The Smart Home Box incorporates a terminal block for connection of hard-wired Zones (33-36), Siren or Telephone Dialer unit. The connection terminal block is located inside the Smart Home Box behind the front cover.

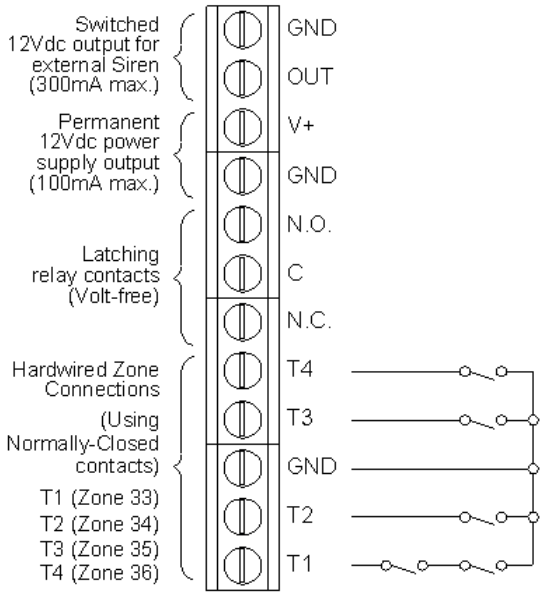
To access the terminal block

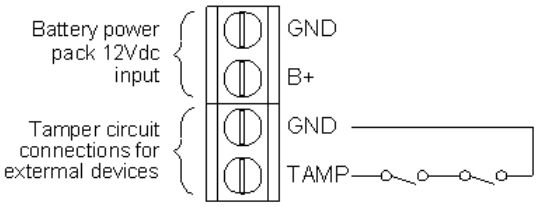
Press , 1, 2, 3, 4,
this puts the system into Test Mode and prevents an alarm occurring. Undo the two fixing screws on the top edge of the Smart Home Box and open the front cover.

Before making any connections, ensure that the memory jumper link P1 is in the 'OFF' position and then remove the DC power jack and disconnect one of the back-up batteries.

Hardwired zone and tamper switches should be Volt free and Normally Closed, with the contacts opening in order to initiate an alarm.
Note: Jumper link P51 (on top left corner) should be fitted into the ON position only if the external hardwired tamper circuit is used, otherwise it must be in the OFF position.

After making your external connections, reconnect the power supply and Back-up Battery. Then close the Smart Home Box cover and tighten the fixing screws on the top edge of the Smart Home Box.





Terminal Block Detail

TESTING THE SYSTEM

INITIAL TESTING

As the system is initially installed it is recommended that each device is tested in turn as it is installed, (refer to testing instructions for particular device).

TESTING AN INSTALLED SYSTEM

The Smart Home Box has a programmed test routine. You may test the system at any time, however it is recommended that the system is tested at regular intervals not exceeding 3 months.

With the system in Disarm Mode

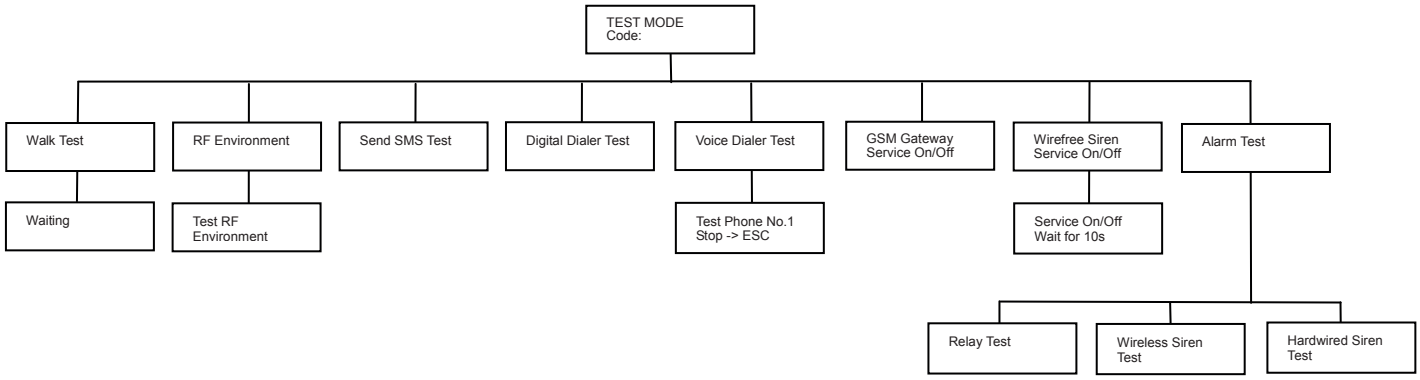
Press [🔓] [?] [?] [?] [?] , [↵]

User Password

This puts the system into Test Mode.

Use the [▲] and [▼] buttons to scroll through the menu and press [↵] to select the displayed test function or sub-menu.

Note: After completing all required test functions, press [ESC] to leave Test mode and return to Disarm mode.



WALK TEST

Before commencing testing, please ensure that there is no movement in any PIR protected area, all doors/windows protected by Magnetic Contact Detectors are closed and that all battery covers and housings are correctly fitted.

Scroll through the top level Test Mode menu until **'WALK TEST'** is displayed and press [↵].

'Walk Test Waiting…' will be displayed.

1. Trigger each detector on the system by either walking into a PIR protected area or by opening a door/window protected by a Magnetic Contact detector. As each detector is triggered the Smart Home Box will chime to indicate that an alarm signal has been received and the identity of the zone that the detector is configured for will be displayed.

2. Operate detector anti-tamper switches by opening the case of the device. As the switches are operated the Smart Home Box will chime and **'Z01 Tamper'** will be displayed.

3. Activate each button on the Remote Control in turn, the Smart Home Box will chime and display the message as following:

Button Pressed	Message Display
Disarm	'R01 Disarm'
Night Arm	'R01 Night Arm'
Fully Arm	'R01 Fully Arm'
Panic Switch	'R01 Panic'

4. If PIR Detector is in low battery status, the Smart Home Box will chime and **'Z01 Low Battery'** will be displayed; whereas if **'Z02 Low Battery'** is displayed, it implies Magnetic Contact is in low battery status.

Press ESC to exit Walk Test and return to the top level Test Mode menu.

RF ENVIRONMENT TEST

Scroll through the top level Test Mode menu until **'RF Environment'** is displayed.

If the ambient environment is full of radio frequency, an indication of **'ENVIRON . . POOR'** will be shown on the LCD screen.

DIGITAL DIALER TEST

Scroll through the top level Test Mode menu until **'DIGITAL DIAL TEST'** is displayed and press ↵.

In order to test the digital dialer properly, the prerequisite is to set the telephone number, unit ID number and to turn on '4-2-1 Monitor Center' in the programming mode. If the telephone number is o.k, **'TEST….PASS'** will be shown. If **'TEST….FAIL'** is shown with 'LINE STATUS' LED flashing, please check the telephone line is well connected and retry the test again.

When testing is in progress, simply press ESC to stop testing.

VOICE DIALER TEST

Scroll through the top level Test Mode menu until **'VOICE DIAL TEST'** is displayed and press ↵.

In order to test the voice dialer properly, the prerequisite is to set the telephone number, record the message for main and intruder, and to turn on voice dial in the programming mode. If 'LINE STATUS' LED is flashing, please check the telephone line is well connected and retry the test again.

When testing is in progress, simply press ESC to stop testing.

WIREFREE SIREN SERVICE ON/OFF

Scroll through the top level Test Mode menu until **'Wirefree Siren Service ON/OFF'** is displayed and press ↵.

This offers the flexibility of removing or changing siren's battery. Wait for 10 seconds until ON/OFF duration has elapsed, then go ahead with fixing the siren as desired.

ALARM TEST

Scroll through the top level Test Mode menu until **'ALARM TEST'** is displayed and press ↵.

Scroll though the menu until the required alarm displayed and press ↵ to operate the selected alarm for 5s.

Select **'Wirefree Siren Test'** to operate the External Solar Siren.

Select **'Hardwire Siren Test'** to operate the Smart Home Box Siren and external hardwired Siren (if connected).

Select **'Relay Test'** to operate the External hardwired (N.O./N.C.) relay contacts.

Press ESC to exit Alarm Test and return to the top level Test Mode menu.

DEFAULT SETTINGS

User Setup

Password	Admin: 1234
	User 1~7: Not Programmed
Name	Admin. User 1~7
Tel/SMS Remote	Admin: ON User 1~7: OFF
Latchkey Report	OFF
Record User Message	Not Programmed
Replay User Message	Not Programmed
Remoter	Not Programmed

Home Box Setup

Alarm Time		180s
Internal Siren		ON
External Siren	Wire Siren	ON
	Wireless Siren	ON

Night Alarm	ON
Key Tone	ON
Back Light	20s
Error Beep	30s
Auto Report Function	12h
RF Jamming Detection	OFF
Alarm Relay	On Until Disarm
Zone Lock	ON
Exit Delay	30s
Exit Delay Beep	ON
Entry Delay	OFF
Entry Delay Beep	OFF
Date dd/mm/yy	1/1/2011 Sat.
Time hh:mm:ss	12:00:00
Wirefree Keypad	OFF
Event & Schedule	ON

Security Sensor Zone (1-36)

Learning ID	Not Programmed
Location	None
Model Type	Magnetic
Security Type	Intruder
Chime Mode	OFF
Night Arm	OFF
Partial Arm	OFF
Magnetic O/C Detector	ON
Auto Report	ON
Sensor Status	OFF
Sensor Reset	Not Programmed
Siren at Trigger	ON

Phone / Line

Voice Dialer Setup

Voice Dial	ON
Record Voice	Not Programmed
Play Voice	Not Programmed

Monitor Center Setup

Monitor Center	ON
Phone Number	Not Programmed
Unit ID No.	Not Programmed
Call Attempts	3
Arm/Disarm By User	OFF
Cyclic Test	Disable

Remote Telephone Control Setup

Remote Type	One Call
One Call Ring	Ring 6
Double Call Time	13s

Dial Method Setup

Dial Method	DTMF

Notification Setup

Set Telephone Number

Input Text	Not Programmed
Input Number	Not Programmed
Level Panic	ON
Level 1	ON
Level 2	ON

Telephone Confirm

Tel Confirm	1

Dial Round

Dial Round	3

Play Time

Play Time	70s

Call Abort

Call Abort	OFF

Green Home

Green Control

Link Panel to control	Not Programmed
Alarm Trigger	OFF
All On	OFF
SMS Remote	OFF
Model Type	Dimmer
Control Status	OFF

Green Remote/Sensor

Learning ID	Not Programmed
Device Status	OFF

Enhance

Enhance Device

Model Type	Not Programmed
Learning ID	Not Programmed
Device Status	OFF

GSM Gateway SMS Remote

GSM Gateway SMS Remote	ON

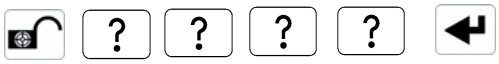
Backup & Restore

Backup	Today's DD/MM/YY
Restore	Not Programmed

RESET

After carrying out the following steps, the Smart Home Box will not return to factory default, instead, the memory of any settings and learnt devices (e.g. PIR detector, magnetic contact detector and remote control) will all be washed out. To reset the Smart Home Box:

1. Press



User Password

to place the system in Test Mode.

2. Undo the Smart Home Box cover fixing screws and open the cover.

3. Switch OFF the mains supply to the plug-in PSU Adaptor and remove the plug from the DC power socket in the Smart Home Box.

4. Remove either back-up battery and disconnect the battery leads.

5. Set jumper link P1 to the ON position.

6. Reconnect the battery leads and replace the back-up battery in position.

   Reconnect the PSU Adaptor plug to the DC power socket in the Smart Home Box and switch On the supply to the PSU Adaptor.

7. As the Smart Home Box powers-up, 'EEPROM Reset' will be displayed indicating reset is taking progress. Once the memory reset has been completed, 'DISARM READY' will be displayed. The Smart Home Box will now be reconfigured with new settings.

8. Reset jumper link P1 to the OFF position.

9. Close the Smart Home Box cover and refit the fixing screws.

Note: please always remember the next step you should carry out after resetting the Smart Home Box is ID code learning for each device.

PROGRAMMING INSTRUCTIONS

With the system in Disarm Mode.

Press [🔑], [?] [?] [?] [?], [↵]

Admin Password

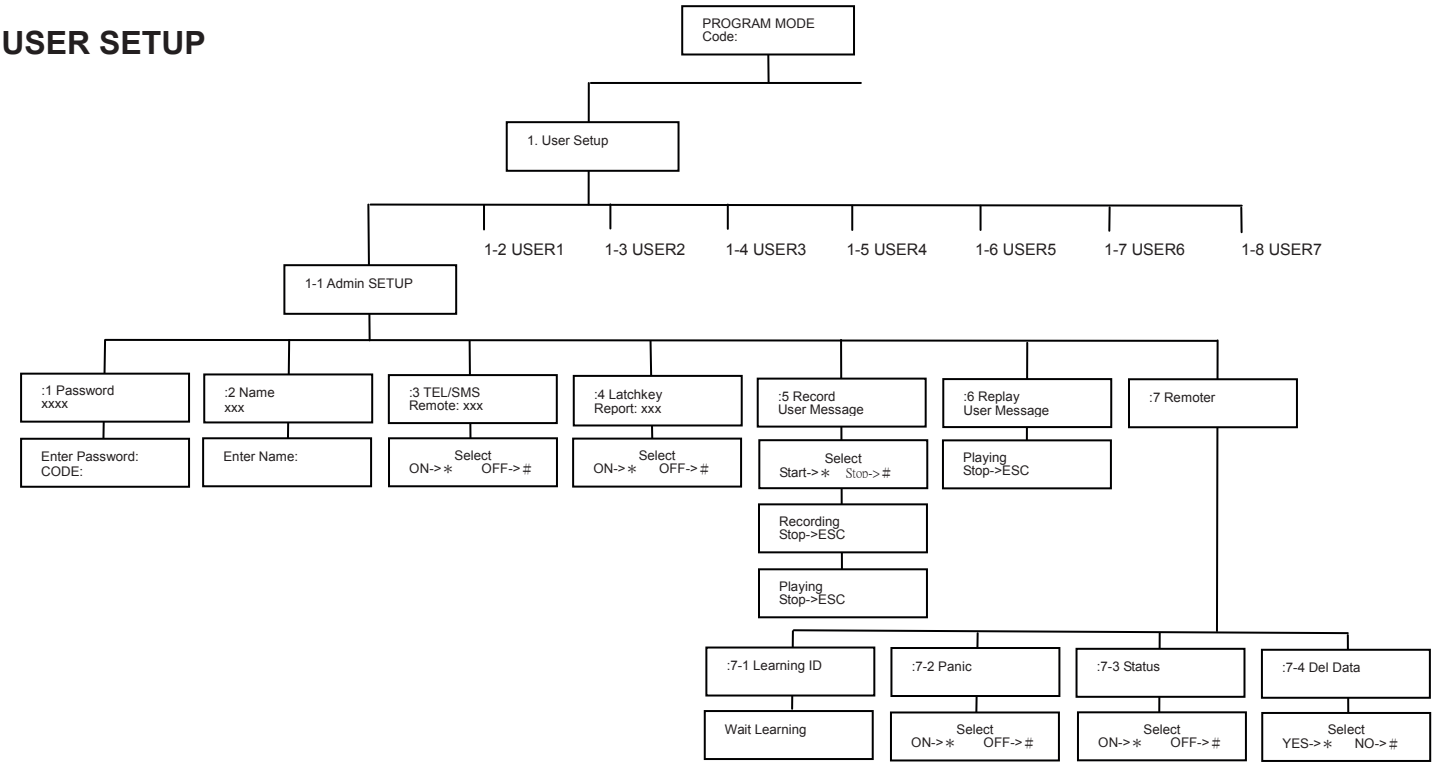
The system is now in the Programming Mode

Use the [▲] and [▼] buttons to scroll through the programming menu. Press [↵] to select the displayed programming function or sub-menu.

Note: Programming is only available under Disarm Mode. While you are using the PC to do the program setting, the keypad on the Smart Home Box will become inactive unless you press [ESC] for 3 seconds.

After programming all required functions press [ESC] to leave Programming mode and return to Disarm mode.

USER SETUP



Scroll through the top level programming menu until **'1. USER SETUP'** is displayed and press [↵].

Use the [▲] and [▼] buttons to scroll through the menu until the required user to be configured is displayed and press [↵].

Note: After configuring all required users press [ESC] to return to the top level programming menu.

ADMIN. & USERS 1-7

Default setting: not programmed

Scroll through the menu until the required User to be configured is displayed and press [↵].

ADMIN. & USER PASSWORD

Scroll through the menu until **':1 Password'** is displayed. For security purpose, the Admin. password won't be displayed, only User password will be shown on the display.

To change the setting press [↵].

Enter the new 4 digit Password and then

Press [↵] to save and exit, or
Press [ESC] to exit without saving.

USER NAME

This enables each user's name to be shown on the

display once the system is armed/disarmed by the particular user. The maximum memorized capacity for each user name is 15 digits.

Scroll through the menu until **':2 Name'** is displayed.
To change the setting press  .

Enter the user name by using the Smart Home Box's keypad.

Press  to save and exit, or
Press  to exit without saving.

The table below lists the alphabets & no. on keypad:

Alphabet	Number
. @ / : - _ → ^	1
ABC abc	2
DEF def	3
GHI ghi	4
JKL jkl	5
MNO mno	6
PQRS pqrs	7
TUV tuv	8
WXYZ wxyz	9
# $ % * + < > ＜＞ = [ ] ←→ `	0
! ? - , ' ; ( ) & " | ¥	*
	#

Press  to toggle between alphabet and number.

Press  to move the cursor left.

Press  to move the cursor right.

Press  to delete the character under the cursor.

Press and hold  to erase the entire phone number.

REMOTE SYSTEM CONTROL
This feature, if enabled, allows the system to be remotely controlled via the telephone or SMS.

Scroll through the menu until **':3 TEL/SMS Remote'** is displayed.

To change the setting press  .

Press  to enable the remote system control,
or
Press  to disable the remote system control.

LATCHKEY REPORT
It is useful for a parent at work who wants to be sure that his children have returned from school and have disarmed the system. A special 'latchkey' message will be sent out to the user of first telephone number when the system is disarmed by a 'latchkey user'.

Default setting: OFF

Scroll through the menu until **':4 Latchkey Report'** is displayed.

Press  to enable the function of latchkey report, or
Press  to disable the function of latchkey report.

RECORD USER MESSAGE
This enables each user to record a short 3s message for use with the latchkey facility. Once the system is disarmed by one of the users, the system will send the recorded message (e.g. system disarmed by user-1) via PSTN to inform the user of first telephone number.

Scroll through the menu until **':5 Record User Message'** is displayed.

To record a new message press  .

Press  to start the voice recorder, (max. duration: 3s). Once completed, the recording will automatically be played back, or

Press  to exit without changing.

Note: After recording the message, press  to stop the recorder and cancel any remaining message time.

REPLAY USER MESSAGE
Scroll through the menu until **':6 Replay User Message'** is displayed.

Press  to replay the user message.
Press  to exit.

CODE LEARNING FROM REMOTE CONTROL
The Smart Home Box can learn up to 8 remote controls. This setting enables the Smart Home Box to learn the specific code from each remote control.

Scroll through menu until **':7 Remoter'** is displayed and press  .

Code Learning

Pressing  ,  or  button on the remote control will enable the Smart Home Box to learn the ID code.

Scroll through the menu until **':7-1 Learning ID'** is displayed.

Three results would turn up after learning as follows:

Learning OK – the ID code was learned by the Smart Home Box successfully.

Time Out – the time involved for learning the ID code is 60s. During this duration, fail to press the  button on the remote control would result in overdue programming.

ID Duplicate – the same ID code was learned by the Smart Home Box beforehand.

Panic Switch

This feature, if enabled, allows the Smart Home Box to alarm when the panic switch on the remote control is pressed in case of an emergency.

Default setting: ON

Scroll through the menu until **':7-2 Panic'** is displayed.

To change the setting press  .

Press  to enable the function of Panic Switch, or
Press  to disable the function of Panic Switch.

Status

This enables the remote control to control the Smart Home Box in the event that the remote control was lost unexpectedly.

Default setting: ON

Scroll through the menu until **':7-3 Status'** is displayed.

To change the setting press  .

Press  to enable the function of remote control or
Press  to disable the function of remote control.

Delete Remote Control

In case of unexpected factors, this facility allows you to delete the remote control setting from the Smart Home Box.

Scroll through the menu until **':7-4 Del data'** is displayed.

To change the setting press  .

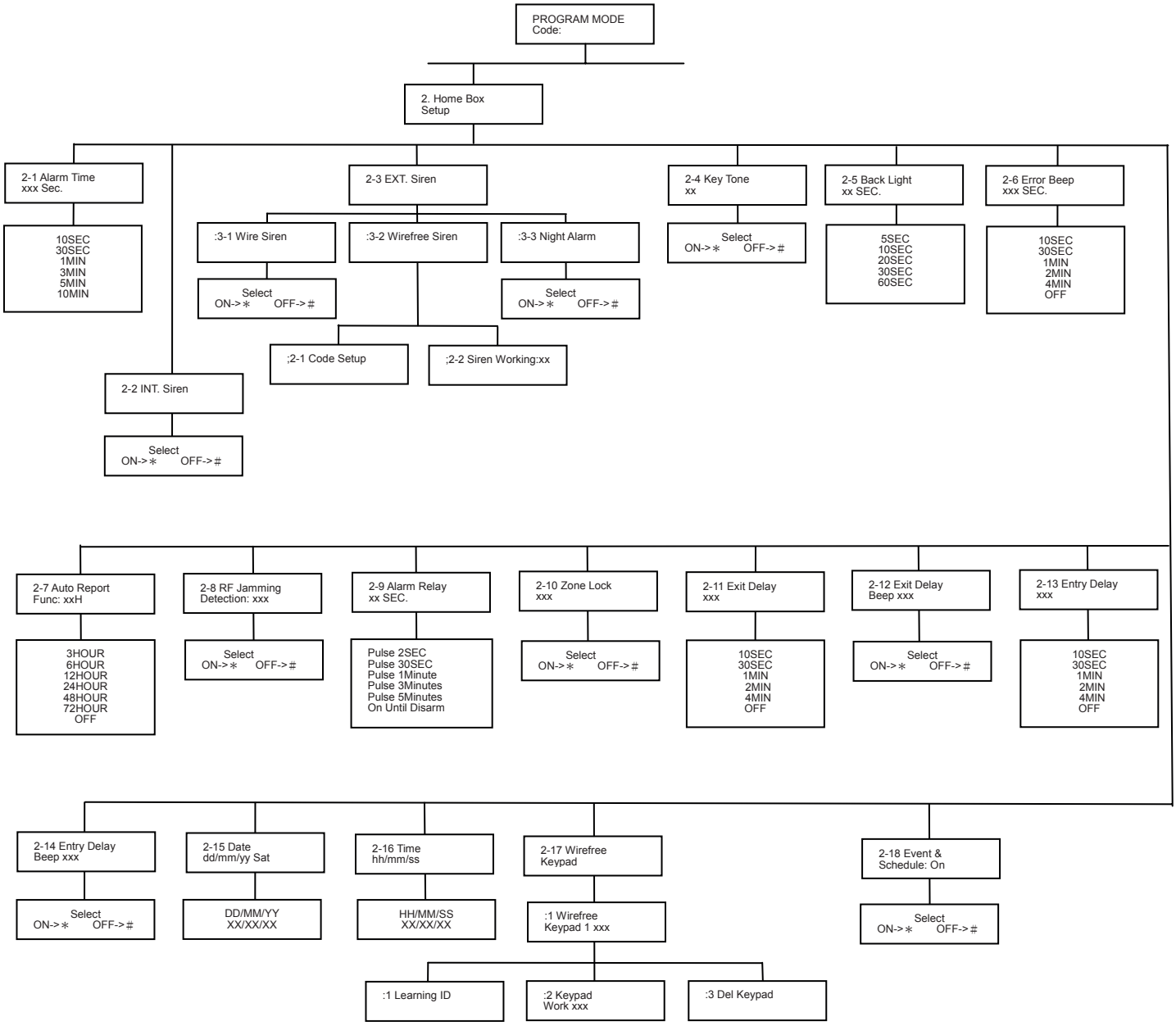
Press  to delete the remote control setting, or
Press  to keep the same setting.

Press  to return to the top level User-Setup menu.

Note: After the system enters the programming mode, if no further programming setting is taken within 10 minutes, the system will return to disarm mode automatically.

Note: By means of either using PC or Smart Home Box's keypad to enter the programming mode, the system will enter disarm mode first then programming mode in sequence.

HOME BOX SETUP



Scroll through the top level programming menu until **'2. HOME BOX SETUP'** is displayed and press  .

Note: After completing the system setup press  to return to the top level programming menu.

ALARM DURATION

It sets the length of time alarm is on once the system is triggered.

Default setting: 180s

Scroll through the menu until **'2-1 Alarm Time'** is displayed. The current setting will also be displayed. To change the setting press  .

Scroll through available options, **(10SEC, 30SEC, 1MIN, 3MIN, 5MIN AND 10MIN)** until the required setting is displayed and then

Press  to save and exit, or
Press  to exit without saving.

Note: Following initiation of a Full Alarm condition the External Siren will continue to sound until either the system is disarmed; or the Smart Home Box Alarm Duration Time expires.

Press  to return to top level System Setup menu.

INTERNAL SIREN

To enable/disable the function of internal siren, scroll through the menu until **'2-2 INT. Siren'** is displayed. The current setting will also be displayed.

Default setting: ON

To change the setting press  .

Press  to enable the Siren, or
Press  to disable the Siren.

EXTERNAL SIREN

Wire Siren

To enable/disable the function of external siren (connect via hard-wire), scroll through the menu until **':3-1 Wire Siren'** is displayed. The current setting will also be displayed.

Default setting: ON

To change the setting press  .

Press  to enable the Hardwired Siren, or
Press  to disable the Hardwired Siren.

Wireless Siren

Scroll through the menu until **':3-2 Wirefree Siren'** is displayed and press  .

Code Learning

The wireless siren has a row of 8 DIP switches. In order to communicate with the Smart Home Box properly, the house code for the wireless siren needs to be learned by the Smart Home Box.

Scroll through the menu until **':2-1 Code setup'** is displayed and press  . Press the Smart Home Box's keypad 1-8 by selecting 0 or 1 respectively in turn. (1 means the dip switch is set in ON position, 0 is set in OFF position).

Press  to save and exit, or
Press  to exit without saving.

ENFORCEMENT FOR WIRELESS SIREN

Default setting: ON

Scroll through the menu until **':2-2 Siren Working'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable the Wireless Siren, or
Press  to disable the Wireless Siren.

NIGHT ALARM

To avoid the alarm sound being disturbed the neighborhood from 22:00 pm to 6:00 am when alarm is triggered, this feature, if disabled, the Smart Home Box will not initiate a full alarm condition during this period of time.

Default setting: ON

Scroll through the menu until **':3-3 Night Alarm'** is displayed.

To change the setting press  .

Press  to enable the alarm sound, or
Press  to disable the alarm sound.

KEY TONE
This feature, if enabled, allows the Smart Home Box to sound a tone each time the keypad is pressed.

Default setting: ON

Scroll through the menu until **'2-4 Key Tone'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable Key Tone, or
Press  to disable Key Tone.

The setting will become effective after it returns back to the top level programming menu.

SMART HOME BOX BACK LIGHT
This controls the time period that the backlight for the Smart Home Box display will stay illuminated for after the last key is pressed.

Default setting: 20s

Scroll through the menu until **'2-5 Back Light'** is displayed. The current setting will also be displayed.

To change the setting press  .

Scroll through available options, (5, 10, 20, 30 and 60s) until the required setting is displayed.

Press  to save and exit, or
Press ESC to exit without saving.

WARNING BEEP
When any abnormal conditions have occurred such as the system being triggered or detectors' low battery, the 'ALARM MEM/MESSAGE' LED on the Smart Home Box will be on accompanying warning beep as a reminder. This feature, if enabled, allows the Smart Home Box to be emitted a warning beep periodically once abnormal conditions is occurred.
Note: to avoid warning beep being disturbed from 10:00 pm to 6:00 am, the Smart Home Box will not emit warning beep during this period of time.

If 'ALARM MEM/MESSAGE' LED is flashing while the system is disarmed and the Smart Home Box beeps periodically, this indicates an alarm has occurred. To cancel the LED and stop the beeping you must access the event log, so as to eliminate the flashing 'ALARM MEM/MESSAGE' LED and the beeping as well.

Default setting: 30S

Scroll through the menu until **'2-6 Error Beep'** is displayed. The current setting will also be displayed.

To change the setting press  .

Scroll through available options, **(10SEC, 30SEC, 1MIN, 2MIN, 4MIN and OFF)** until the required setting is displayed and then

Press  to save and exit, or
Press ESC to exit without saving.

AUTO REPORT
The associated detectors will emit a radio signal to the Smart Home Box once an hour as an acknowledgement of proper operation. If within a certain period of time, the Smart Home Box does not receive a radio signal from the detectors, this feature (if it's enabled) allows the Smart Home Box to show an abnormal indication as a reminder.

Default setting: 12H

Scroll through the menu until **'2-7 Auto Report Func.'** is displayed. The current setting will also be displayed.

To change the setting press  .

Scroll through available options, **(3, 6, 12, 24, 48, 72 HOUR & OFF)** until the required setting is displayed and then

Press  to save and exit, or
Press ESC to exit without saving.

JAMMING DETECTION
This feature controls the Smart Home Box RF jamming detection circuitry, which if enabled, will continuously scan for radio jamming signals on the system operating frequency.

Default setting: OFF

Scroll through the menu until **'2-8 RF Jamming Detection'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable Jamming Detection, or
Press  to disable Jamming Detection.

ALARM RELAY

This setting controls the operation period for the NO/NC hardwired output relay contacts following an alarm condition being initiated.

If this is set to **'ON Until Disarm'** then the relay will latch and remain On until the system is next disarmed.

Scroll through the menu until **'2-9 Alarm Relay'** is displayed. The current setting will also be displayed.

Default setting: ON Until Disarm

To change the setting press  .

Scroll through available options, **(Pulse 2Sec, 30Sec, 1Min, 3Min, 5Min and On Until Disarm)** until the required setting is displayed and then

Press  to save and exit, or
Press ESC to exit without saving.

ZONE LOCKOUT

This feature, if enabled, prevents a single zone from triggering an alarm condition more than three times before the system is disarmed. However, if disabled, there is no limit on the number of times a zone can trigger an alarm condition.

Default setting: ON

Scroll through the menu until **'2-10 Zone Lock'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable Zone Lockout, or
Press to disable Zone Lockout.

EXIT DELAY

It controls how long the exit delay expires.

Default setting: 30s

Scroll through the menu until **'2-11 Exit Delay'** is displayed. The current setting will also be displayed.

To change the setting press  .

Scroll through available options, **(10SEC, 30SEC, 1MIN, 2MIN, 4MIN and OFF)** until the required setting is displayed and then

Press  to save and exit, or
Press ESC to exit without saving.

EXIT DELAY BEEP

This controls the warning beep which operates during the Exit Delay period when Arm is initiated.

Default setting: ON

Scroll through the menu until **'2-12 Exit Delay Beep'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable the Exit-delay beep, or
Press  to disable the Exit-delay beep.

ENTRY DELAY

This facility controls the delay time which allows the user to enter the property without initiate an alarm. If it's set to OFF, the system will alarm immediately once a detector is triggered.

Default setting: OFF

Scroll through the menu until **'2-13 Entry Delay'** is displayed. The current setting will also be displayed.

To change the setting press  .

Scroll through available options, **(10SEC, 30SEC, 1MIN, 2MIN, 4MIN and OFF)** until the required setting is displayed and then

Press  to save and exit, or
Press ESC to exit without saving.

ENTRY DELAY BEEP

This controls the warning beep which operates during the Entry Delay period when Arm is active.

Default setting: OFF

Scroll through the menu until **'2-14 Entry Delay Beep'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press * to enable the Entry-delay beep, or
Press # to disable the Entry-delay beep.

DATE
This feature is for setting of local date.
Default setting: 1/1/2011 Sat

Scroll through the menu until **'2-15 Date'** is displayed and press ↵.

Enter the date in the format 'DD/MM/YY'.

Press ↵ to save and exit, or
Press ESC to exit without saving.

TIME
This feature is for local time setting.
Default setting: 12:00:00

Scroll through the menu until **'2-16 Time'** is displayed and press ↵.

Enter the time in the format 'hh/mm/ss'.

Press ↵ to save and exit, or
Press ESC to exit without saving.

WIRELESS KEYPAD
This feature, if enabled, allows the Smart Home Box to be controlled up to 6 pcs of wireless keypad with ease.

Default setting: OFF

Scroll through the menu until **'2-17 Wirefree Keypad'** is displayed. The current setting will also be displayed and press ↵.

Scroll through the menu until **':1 Wirefree Keypad 1: xxx'** is displayed and press ↵ to enter code learning.

Code Learning
Scroll through the menu until **':1 Learning ID'** is displayed.

Three possibilities would happen as follows:

Learning OK– the ID code was learned by the Smart Home Box successfully.

Time Out – the time involved for learning the ID code is 60s. During this duration, fail to press the 🔓 button on the remote control would result in overdue programming.

ID Duplicate – the same ID code was learned by the Smart Home Box beforehand.

Keypad Off
Scroll through the menu until **':2 Keypad Work: xxx'** is displayed and press ↵.

Press * to enable the Wireless Keypad, or
Press # to disable the Wireless Keypad.

Delete Keypad
Up to 6 pcs of wireless keypad can be controlled by the Smart Home Box.

Scroll through the menu until **':3 Del Keypad'** is displayed and press ↵.

Press * to delete the Wireless Keypad, or
Press # to keep the Wireless Keypad.

The same method is applied for learning other keypads, for example scroll through the menu until **':2 Wirefree Keypad 2: xxx'** is displayed and press ↵ to enter code learning.

EVENT & SCHEDULE
To enable/disable the preset schedules and event under Fully Arm and Partial Arm, scroll through the menu until **'2-18 Event & Schedule'** is displayed.

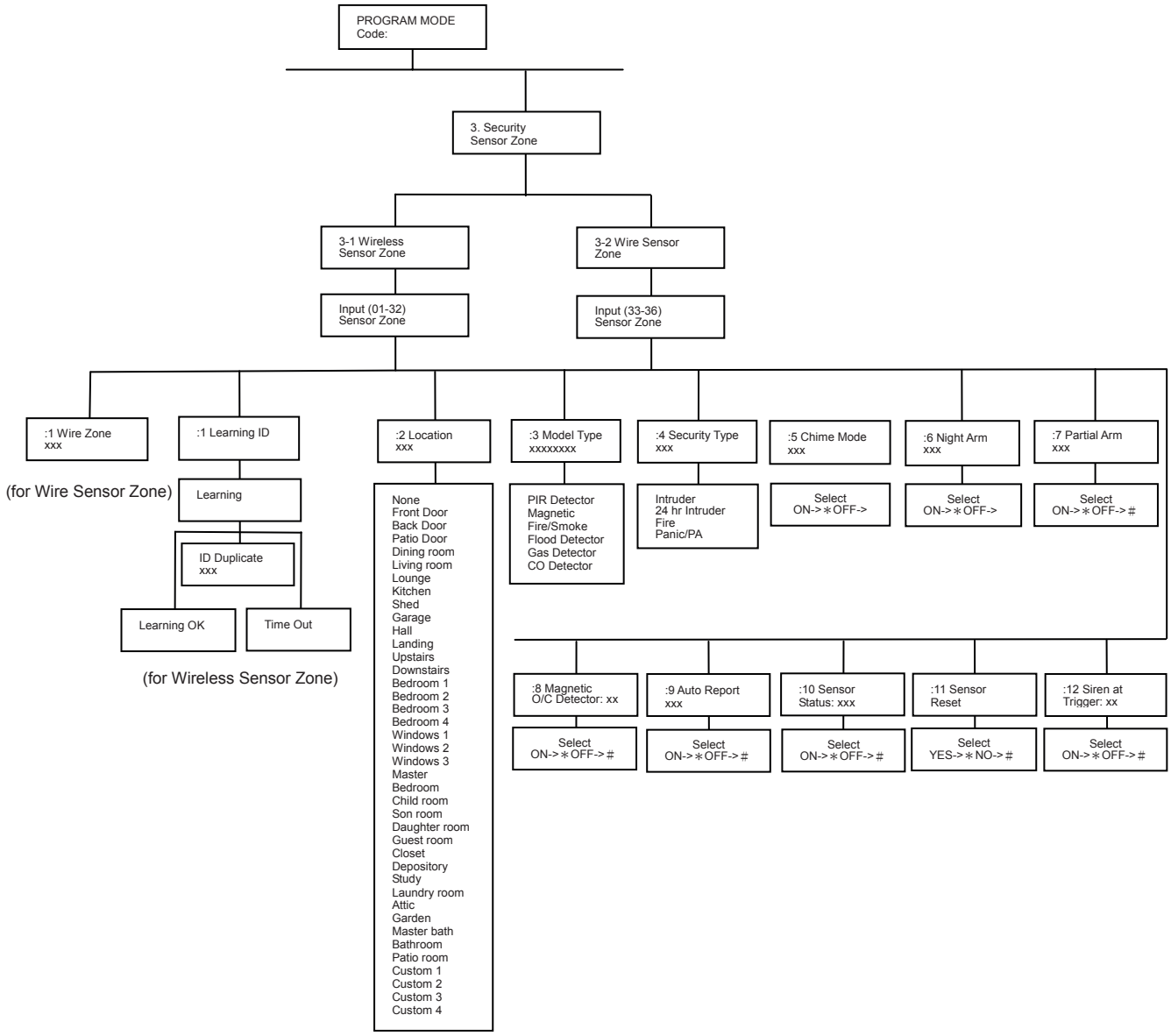
Default setting: ON

To change the setting press ↵.

Press * to enable all schedules & events or
Press # to disable all schedules & events.

Note: The schedules and events set under holiday arm and Night arm will not be affected by this function setting; they still execute even event & schedule is set to off.

SECURITY SENSOR ZONE SETUP



This section is for setting of adding and categorizing of security devices (e.g. PIR detector). Scroll through the programming menu until **'3. SECURITY SENSOR ZONE'** is displayed and press ↵.

Enter the sensor zone number to be configured and press ↵.

CODE LEARNING

This enables the Smart Home Box learns ID from each detector.

Scroll through the menu until **':1 Learning ID'** is displayed and press ↵.

Pressing tamper switch/learning key on the detector will emit ID code to the Smart Home Box instantly.

Three possibilities would happen as follows:

Learning OK – the ID code was learned by the Smart Home Box successfully.

Time Out – the time involved for learning the ID code is 60s. During this duration, fail to press the tamper switch/learning key on the detector would result in overdue programming.

ID Duplicate – the same ID code was learned by the Smart Home Box beforehand.

Note: Once code learning is completed, it is recommended to assign appropriate Model Type and Security Type for the learned detectors to ensure central monitoring station receives correct event codes when event occurs. Please note, to receive code number 113 (Flood Detector) and 151 (Gas Alarm), the Model Type must be assigned as Flood Detector and Gas Detector.

For wire zone (33-36), the function of **':1 Wire Zone'** is disabled.

LOCATION

Default setting: 'None'

Scroll through the menu until **':2 Location'** is displayed. To change the setting press ↵

Scroll through available options until the required setting is displayed.

Press ↵ to save and exit, or
Press ESC to exit without saving.

MODEL

Each detector can be defined as one of model types. Scroll through the menu until **':3 Model Type'** is displayed. The current setting will also be displayed.

To change the setting press ↵.

Scroll through available options until the required setting is displayed. Once the model type is selected, the security type is chosen as well. The following shows the security type each model is categorized to:

Intruder

PIR Detector, Magnetic

Fire

Fire/Smoke Detector

Panic/PA

Flood Detector, Gas Detector and CO Detector

Press ↵ to save and exit, or
Press ESC to exit without saving.

SECURITY TYPE

Each sensor zone may be programmed to operate in one of 4 different modes depending on the type of alarm function it is required to perform. The following security types are available:

Intruder

- provides standard intruder monitoring with ARM functions.

24 Hour Intruder

- used to provide 24 hour monitoring of areas requiring continuous security protection even the system is disarmed, (e.g. gun lockers). Activation of any detector on a security zone will immediately initiate a Full Alarm condition.

Fire

- used to provide 24-hour monitoring of any Fire/Smoke detectors fitted to the system. Activation of any detector will immediately initiate a Full Alarm condition.

Panic/PA

- used to provide 24-hour monitoring of any emergency being occurred. Activation of any Panic and Flood Status will immediately initiate a Full Alarm condition.

Note: Panic/PA, 24-hour Intruder and Fire modes all operate on a 24 hour basis, (i.e. they are able to initiate Full Alarm condition at any time irrespective of whether the system is Armed or Disarmed).

Default setting: 'Intruder'

Scroll through the menu until **':4 Security Type'** is displayed. The current setting will also be displayed. To change the setting press  .

Scroll through available options until the required setting is displayed.

Press  to save and exit, or
Press  to exit without saving.

CHIME

This controls whether the Chime facility is available on the zone. For example, if a Magnet Contact Detector is set as disable in Partial Arm while the Chime facility is set to ON, then once the Magnet Contact Detector has been triggered, the Smart Home Box will send out a Ding-Dong sound.

Default setting: OFF

Scroll through the menu until **':5 Chime Mode'** is displayed. The current setting will also be displayed. To change the setting press  .

Press  to enable the sensor zone's Chime facility, or
Press  to disable the sensor zone's Chime facility.

NIGHT ARM

This facility controls whether the sensor zone is active when the system is set to night arm.

Default setting: OFF

Scroll through the menu until **':6 Night Arm'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable sensor zone's night arm facility, or
Press  to disable sensor zone's night arm facility.

Press  to save and exit, or
Press  to exit without saving.

PARTIAL ARM

This facility controls whether the sensor zone is active when the system is set to Partial Arm.

Default setting: OFF

Scroll through the menu until **'7: Partial Arm'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable the sensor zone in Partial Arm, or
Press  to disable the sensor zone in Partial Arm.

MAGNETIC CONTACT DETECTOR

This allows the Smart Home Box to be notified as to whether the magnetic contact detector is active or inactive when the system is disarmed.

Default setting: ON

Scroll through the menu until **':8 Magnetic O/C Det.'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable the Magnetic Contact Detector, or

Press  to disable the Magnetic Contact Detector.

AUTO REPORT

This feature, if enabled, allows the detector to give feedback to the Smart Home Box periodically with its latest status.

Default setting: ON

Scroll through the menu until **':9 Auto Report'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable Auto Report function, or
Press  to disable Auto Report function.

SENSOR ZONE STATUS

This controls whether the detector is implemented on the sensor zone.

Default setting: OFF

Scroll through the menu until **':10 Sensor status'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable the implementation of Detector on the sensor zone, or
Press  to disable the implementation of Detector on the sensor zone.

Note: Once device learning is completed, the setting will be set to ON.

SENSOR ZONE RESET

This feature, if enabled, allows the deletion of the detector on the zone.

Scroll through the menu until **':11 Sensor Reset'** is displayed.

Press  to delete the setting of Detector on the sensor zone, or

Press  to keep the latest setting without changing.

SIREN AT TRIGGER

This decides whether the Smart Home Box will sound or become silent when the sensor is triggered.

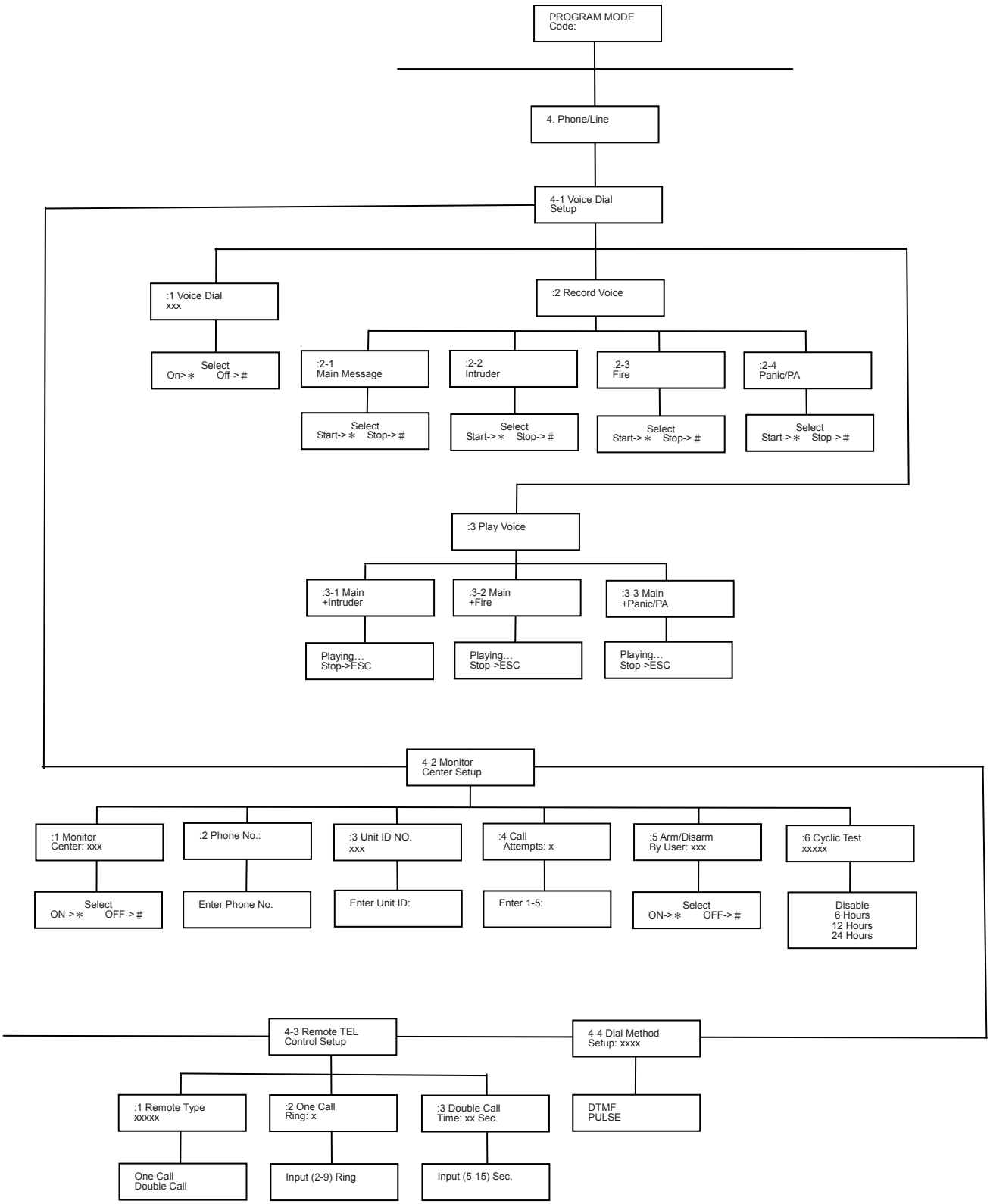
Default setting: ON

Scroll through the menu until **':12 Siren at Trigger'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to enable the Sirens on the sensor zone, or
Press  to disable the Sirens on the sensor zone.

PHONE/LINE SETUP



Scroll through the programming menu until **'4-1. Voice Dial Setup'** is displayed and press  .

Note: After completing the Phone/Line Setup press ESC to return to the top level programming menu.

VOICE DIALER

This feature, if enabled, allows the enforcement of voice dialer.

Default setting: ON

Scroll through the menu until **':1 Voice Dial'** is displayed. The current setting will also be displayed.

Press  to enable the function of voice dialer, or
Press  to disable the function of voice dialer.

RECORD ALARM MESSAGES

Scroll through the menu until **':2 Record Voice'** is displayed and press  .

Scroll through the available menu options until the required message type to be recorded is displayed.

a) Main Alarm message, (12 seconds max).
b) Intruder Alarm message, (4 seconds max).
c) Fire Alarm message, (4 seconds max).
d) Panic/PA Alarm message, (4 seconds max).

To record a new message press  .

Press  to start the Voice Recorder. Once completed the recording, it will automatically be replayed.
or
Press  to exit without changing.

Note: After recording the message, press ESC to stop the recorder and cancel any remaining message time.

REPLAY ALARM MESSAGES

Scroll through the menu until **':3 Play Voice'** is displayed and press  .

Scroll through the available menu options until the required message type is displayed.

a) Main + Intruder Messages
b) Main + Fire Messages
c) Main + Panic/PA Messages

To replay the message press  .

Press ESC to return to the top level Voice Dial setup menu.

MONITOR CENTER SETUP

Scroll through the menu until **'4-2 Monitor Center Setup'** is displayed and press  .

Note: After completing the Monitor Center Setup, press ESC to return to the top level programming menu.

MONITOR CENTER

This feature, if enabled, allows the enforcement of monitor center. The current setting will also be displayed.

Default setting: ON

Press  to enable the function of monitor center, or
Press  to disable the function of monitor center.

PHONE NUMBER

Scroll through the menu until **':2 Phone No:'** is displayed. The current setting will also be display.

To change the setting press  .

Enter the phone number (32 digits max. ranging from 0~9, *, #, ).

Press  to save and exit, or
Press ESC to exit without saving.

Notes:

Press  to move the cursor left.

Press  to move the cursor right.

Press  to delete the character under the cursor.

Press and hold  to erase the entire phone number.

UNIT ID NUMBER

This helps central monitoring station set an ID number for the user whose system is connected to their center.

Scroll through the menu until **':3 Unit ID No:'** is displayed. The current setting will also be displayed.

To change the setting press  .

Enter the ID number (4 digits max. ranging from 0-9, B,C,D,E, F)

Press  to save and exit, or
Press  to exit without saving.

Notes:

Press  and then 1, a 'B' will be presented.

Press  and then 2, a 'C' will be presented.

Press  and then 3, a 'D' will be presented.

Press  and then 4, an 'E' will be presented.

Press  and then 5, a 'F' will be presented.

When pressing  for 3 seconds, it will return to numbers.

CALL ATTEMPTS

This sets the maximum number of times that the dialer will attempt to contact the central monitoring station.

If the dialer contacts to the central monitoring station once successfully, it will stop dialing.

Default setting: 3

Scroll through the menu until **':4 Call Attempts'** is displayed. The current setting will also be displayed.

To change the setting press  .

Enter the required number (1-5).

Press  to save and exit, or
Press  to exit without saving.

ARM/DISARM BY USER

This determines when user makes a selection for disarming (Open) or arming (Close) the system, an event code 401 is needed to be sent to the central monitoring station. When setting to 'On', an event code 401 will be emitted, setting to 'Off', an event code 401 won't be emitted.

Default setting: OFF

Scroll through the menu until **':5 ARM/DISARM By User'** is displayed. The current setting will also be displayed.

To change the setting press  .

Press  to commence sending the event code.

Press  , event code will not be sent.

CYCLIC TEST

This function allows you to set the time interval for the dialer to report to the central monitoring station.

Default setting: Disable

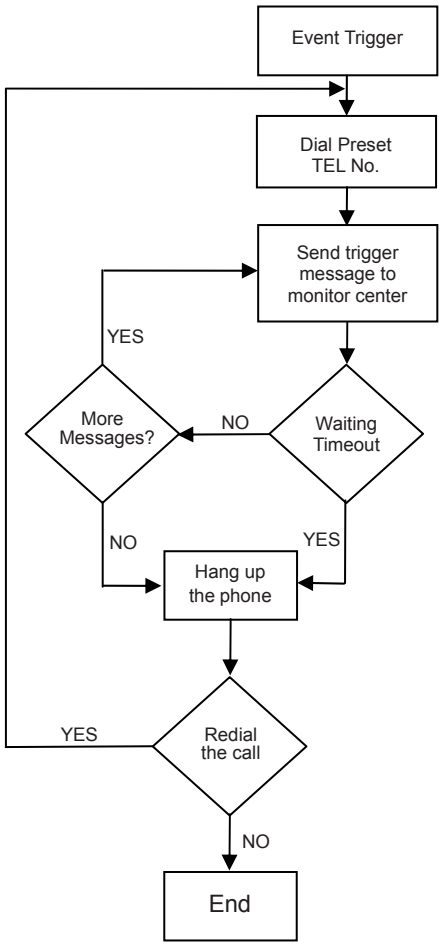
Scroll through the menu until **':6 Cyclic Test'** is displayed. The current setting will also be displayed.

To change the setting press  .

Scroll through available options, (Disable, 6 Hours, 12 Hours and 24 Hours), until the required setting is displayed.

Press  to save and exit, or
Press  to exit without saving.

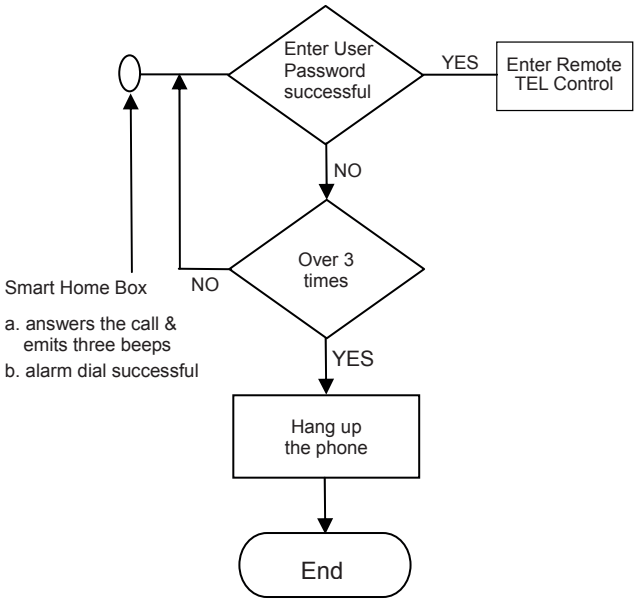
Call Routing Sequence (Monitor Center)



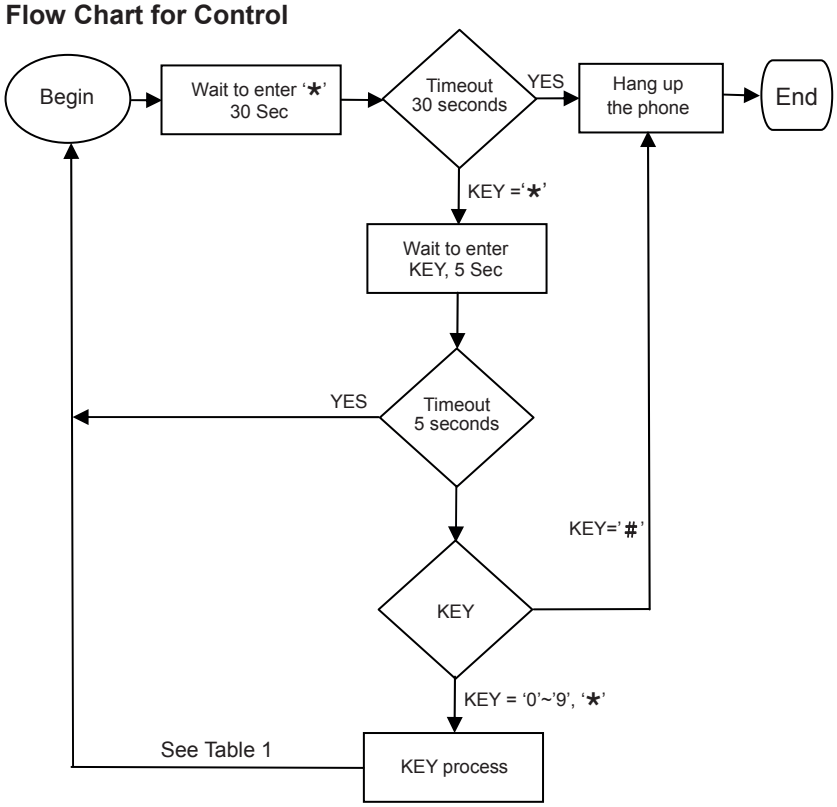
Note: If you find Monitor Center is not working properly, please check the telephone no. and Unit ID no. you enter are correct.

REMOTE TEL CONTROL SETUP

Flow Chart for Remote TEL Control



Flow Chart for Control



Scroll through the manual until **'4-3 Remote TEL Control Setup'** is displayed and press ↵.

After completing the Remote TEL Control Setup press ESC to return to the top level programming menu.

Key on the phone	Type of setting	Result
* 1	Full arm	Begin
* 2	Partial arm	Begin
* 3	Holiday arm	Begin
* 4	Disarm	Begin
* 5	Turn off all of green control	Begin
* 6	Siren off	Begin
* 7	Siren on	Begin
* 8	Listen In (see **Note**)	Begin
* 9	Read the status of Smart Home Box	Begin
* 0	Read the status of AC power supply	Begin
*#	Hang up the phone	End

Note:
Press * and then 8 on the phone to enter listen-in state to monitor what is happening in the protected property of which timeout is 5 minutes.

NUMBER OF DIALING CALL

This facility controls the number of dialing call via the connected telephone line.

Default setting: one call

Scroll through the manual until **':1 Remote Type'** is displayed and press  .

To change the setting press  .

Scroll through available options (e.g. one call & double call) until the required setting is displayed.

One Call

The number of ring for the Smart Home Box must be greater than that of the set number of rings. By doing so, the Smart Home Box will answer the call and emit three beeps on the phone line to prompt for a User Password to be entered using the telephone keypad.
Refer to the section "**NUMBER OF RINGS FOR ONE CALL'** below for the setting.

Double Call

This feature is suitable for use when the fax or answer machine is connected to Smart Home Box externally. The operating procedure is as follows:

1. Dial up the system and hang up after two rings.
2. Redial up the system within 25s as maximum (10s as minimum), the system will pickup the phone and emit 3 beeps to remind the user to enter passwords for long term controlling.
   Note: The maximum and minimum period for redialing up the system will vary depending on the interval of ring you entered. Refer to **'INTERVAL OF RING FOR DOUBLE CALL'** for the setting.
3. Enter the User Password as normal.

NUMBER OF RINGS FOR ONE CALL

The number of rings for one call must be set within 2-9.

Default setting: 6

Scroll through the menu until **':2 One Call Ring'** is displayed and press  .

Enter the required number of ring (2-9).

Press  to save and exit, or
Press ESC to exit without saving.

INTERVAL OF RING FOR DOUBLE CALL

The interval of ring in each country varies greatly. Always add extra 2s to your countries' interval of ring.

Default setting: 13s

Scroll through the menu until **':3 Double Call Time'** is displayed. The current setting will also be displayed.

To change the setting press  .
Enter the required interval of ring (5s-15s).

Note: The duration of dialing the second call will vary depending on the interval of ring you enter.

Enter 5s, it becomes 6-20s.
Enter 13s, it becomes 14-28s.
Enter 15s, it becomes 16-30s.

DIAL METHOD

This feature enables the telephone dialer to be configured for type of exchange it is connected to.

Default setting: DTMF (Tone)

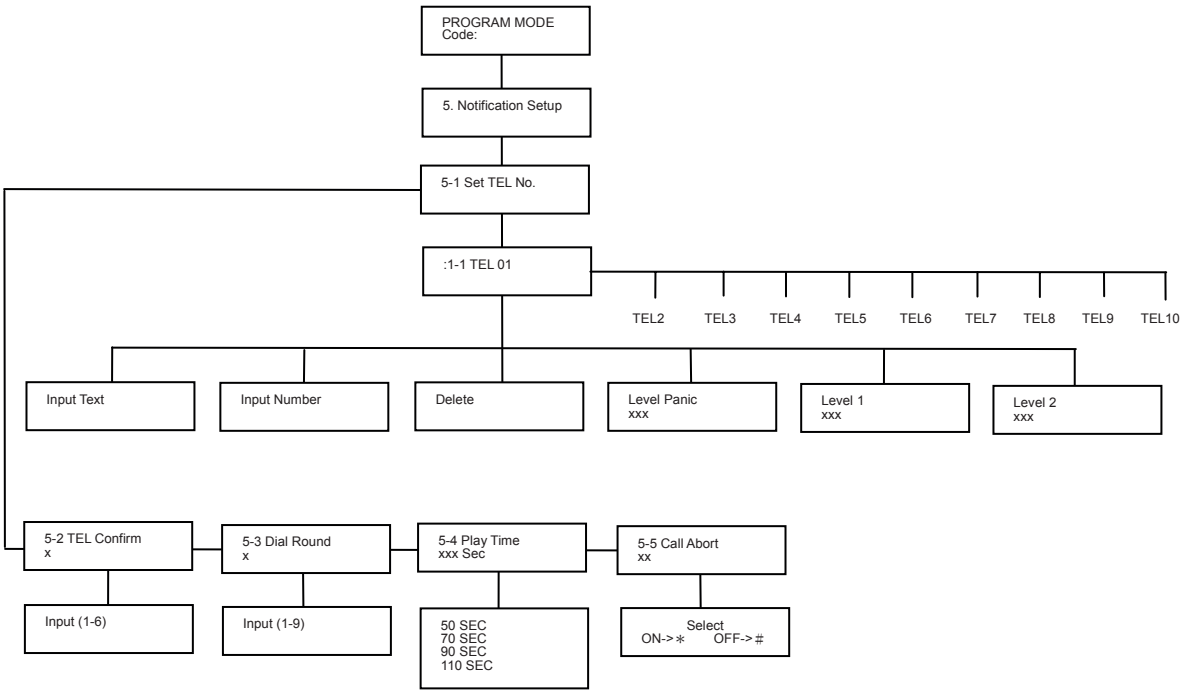
Scroll through the menu until **'4-4 Dial Method Setup'** is displayed. The current setting will also be displayed.

To change the setting press  .

Scroll through available options, (DTMF/PULSE), until the required setting is displayed and then

Press  to save and exit, or
Press ESC to exit without saving.

NOTIFICATION SETUP



NOTIFICATION SETUP

Scroll through the programming menu until **'5. Notification Setup'** is displayed and press  .

Note: After completing the Notification Setup press  to return to the top level programming menu.

TELEPHONE NUMBERS

Scroll through the menu until **'5-1 Set TEL NO.'** is displayed and press  .

Scroll through the menu until the required Telephone number (1-10) is displayed. The current setting of each telephone number and text will also be displayed.

To change the setting press  .

Input Text

To alter the name of TEL 1, enter the name (15 characters max.) by inputting letters of alphabet.

Press  to toggle between alphabet and number.

Input NO.

Enter the required telephone number (32 digits. max.) by inputting 0~9, *, #.

Press  to move the cursor left.

Press  to move the cursor right.

Press  to delete the character under the cursor.
Press and hold  to erase the entire phone number.

Delete

To delete the name and telephone number.

Press  to delete the data, or
Press  to retain the data.

Level Panic

When the Smart Home Box is triggered and the alarm goes off, this feature, if enabled, allows the voice dialer in the Smart Home Box dial to this phone number and GSM Gateway send SMS to mobile phone number simultaneously.

Default setting: ON

Press  to enable the function of dialing and sending SMS, or
Press  to disable the function of dialing and sending SMS.

Level 1

When the Smart Home Box is triggered but alarm will not go off, this feature, if enabled, allows the voice dialer in the Smart Home Box dial to this phone number and GSM Gateway send SMS to mobile phone number simultaneously.

Default setting: ON

Press  to enable the function of dialing and sending SMS, or
Press  to disable the function of dialing and sending SMS.

Level 2

When the Smart Home Box is triggered, alarm will not go off and the voice dialer in the Smart Home Box will not dial to this phone number. This feature, if enabled, only allows GSM Gateway send SMS to mobile phone number.

Default setting: ON

Press  to enable the function of sending SMS, or
Press  to disable the function of sending SMS.

TEL CONFIRM TIMES

This sets the number of acknowledged phone numbers will be required to report back to the Smart Home Box in order to stop the voice dialer. For example, if it is set to "2" then the dialing sequence will continue until an acknowledgment is received from two different numbers, (e.g. Phone No. 1 and Phone No. 3). The recipient must acknowledge the message by pressing the  button on their telephone keypad.

Default setting: 1

Scroll through the menu until **'5-2 TEL Confirm'** is displayed. The current settings will also be displayed.

To change the setting press  .

Enter the required number (1-6).

Press ↵ to save and exit, or
Press ESC to exit without saving.

DIAL ROUND

This sets the maximum number of times that the dialer will attempt to contact each enabled telephone number in the call routing sequence.

Default setting: 3

Scroll through the menu until **'5-3 Dial Round'** is displayed. The current setting will also be displayed.

To change the setting press ↵.

Enter the required number (1-9).

Press ↵ to save and exit, or
Press ESC to exit without saving.

ALARM MESSAGE PLAY TIME

This is the total time for which the alarm messages will be played & repeated when a call made by the voice dialer is answered.

Default setting: 70s

Scroll through the menu until **'5-4 Play Time'** is displayed. The current setting will also be displayed.

To change the setting press ↵.

Scroll through the available options, (50, 70, 90 and 110s) until the required setting is displayed.

Press ↵ to save and exit, or
Press ESC to exit without saving.

CALL ABORT

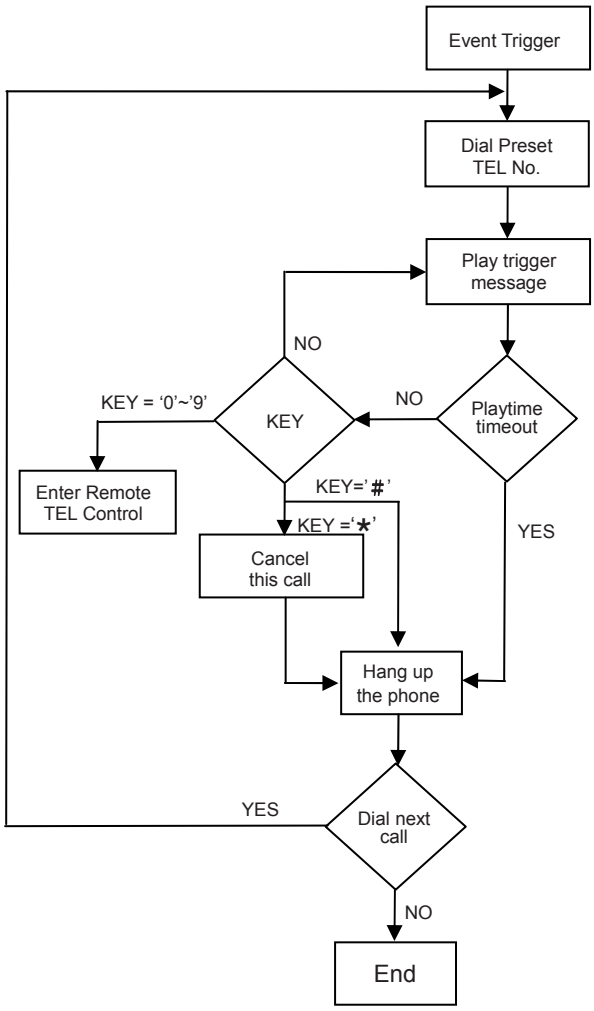
This feature, if enabled, will delay the activation of the telephone dialer following an alarm for a period of approx. 33s to allow the system to be disarmed.

Default setting: OFF

Scroll through the menu until **'5-5 Call Abort'** is displayed. The current setting will also be displayed.

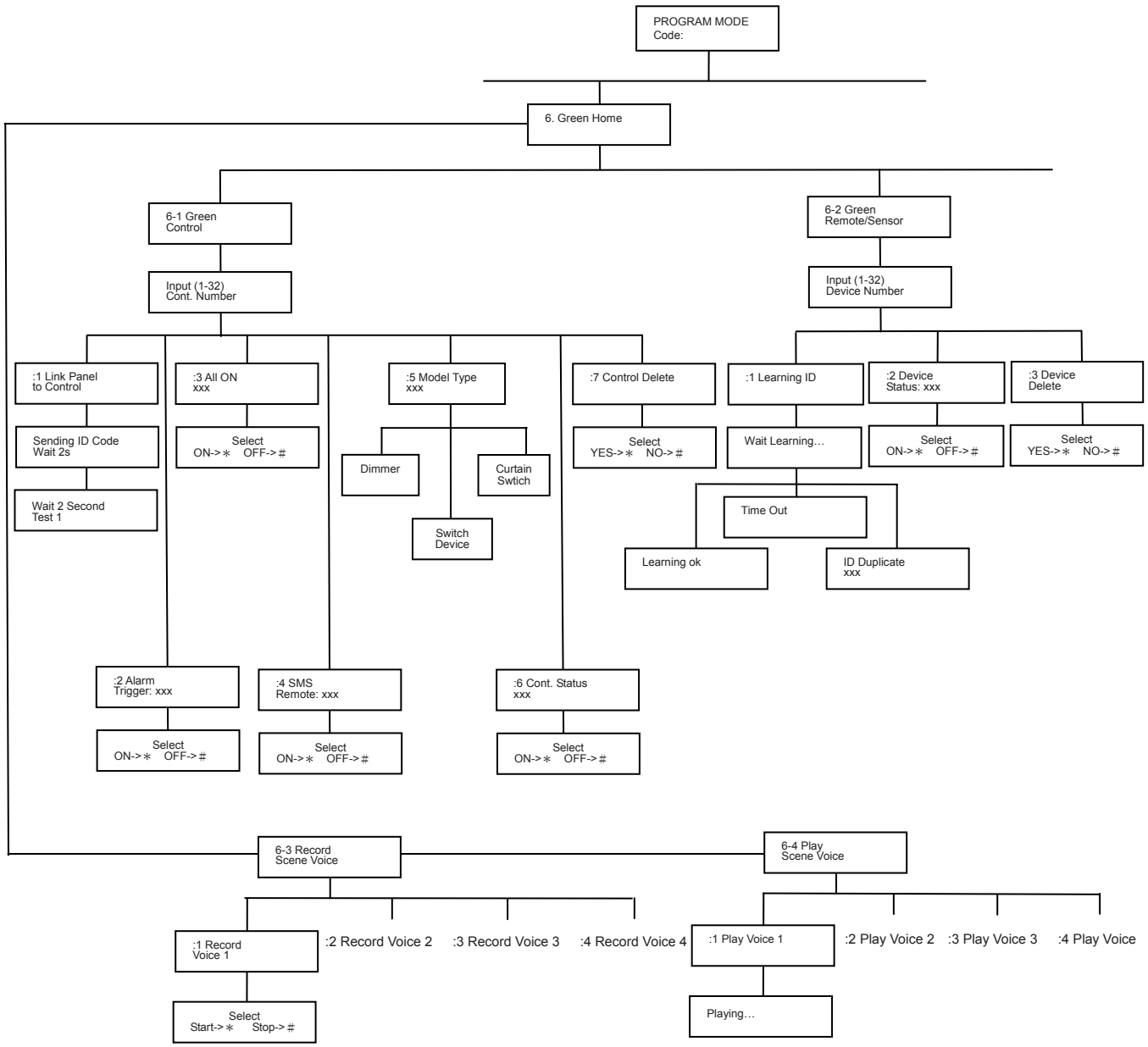
To change the setting press ↵.

Press * to enable Call Abort, or
Press # to disable Call Abort.



Note: If you find Voice Dial is not working properly, please check the telephone no. you enter is correct, Level Panic, Level 1 are set to ON and the message you recorded in Main Message is working.

GREEN HOME SETUP



Green Home setting is designed specially for home automation types of devices, i.e. device with 433 MHz radio frequency. Scroll through the top level programming menu until **'6. GREEN HOME'** is displayed and press ↵.

Note: To return to top level programming menu, press ESC.

Green Control

For receiver type of devices (e.g. ON/OFF plug, dimmer), scroll through the menu until **'6-1 Green Control'** is displayed.

Enter green control number (1-32) to be configured and press ↵.

Code Learning

This enables the green control learns ID code from the Home Box.

Firstly, press the knob of the receiver for 3 seconds until the LED flashes rapidly, and then release the knob. The receiver is waiting to learn the ID code.

Set the Smart Home Box into code learning status, scroll through the menu until **':1 Link Panel to Control'** is displayed and press ↵.

Press On/Off knob on the receiver to receive ID code from the Smart Home Box instantly.

Two possibilities would happen as follows:

Sending ID code Wait 2s – the ID code was emitted from Smart Home Box.

Wait 2 Second Test – the code was learned by the receiver. The receiver turns On/Off automatically once after learning was successful.

Note: DO NOT connect the receiver to light fixture, electrical fans or any other appliance to avoid possible dangers which might be caused during this 2-Second Test.

Alarm Trigger

This controls devices of a group to turn on/off once alarm is on. Scroll through the menu until **':2 Alarm Trigger'** is displayed.

Default setting: off

To change the setting press ↵.

Press * to enable the devices, or
Press # to disable the devices.

Note: Please pay attention to the appliance that is connected to the green control. If **Alarm Trigger** is set to ON, the green control will activate automatically once the alarm is triggered and the appliance such as coffee maker connected to the green control will start cooking. It could be dangerous if no one is at home.

All Turn ON

This sets the receivers of this group is to turn ON/OFF. Scroll through the menu until **':3 All On'** is displayed.

Default setting: OFF

To change the setting press ↵.

Press * to turn on the group devices, or

Press # to turn off the group devices.

SMS Remote (for GSM Gateway)

It enables/disables the device to be controlled remotely. For instance, if the green control is connected with a coffee maker and this feature is set to OFF, then this coffee maker cannot be set to ON via remote control.

To enable/disable this function, scroll through the menu until **':4 SMS Remote'** is displayed.

Default setting: OFF

To change the setting press ↵.

Press * to enable **SMS Remote**, or

Press # to disable **SMS Remote**.

Model Type

To select device type, scroll through the menu until **':5 Model Type'** is displayed and press ↵.

Scroll through available options, **(Curtain Switch, Dimmer and Switch Device)** until the required model type is displayed and then

Press  to save and exit, or
Press  to exit without saving.

Note: If model type is selected incorrectly, the device will not function properly.

Control Status

Scroll through the menu until **':6 Control Status'** is displayed.

Default setting: OFF

To change the setting press  .

Press  to enable the green control, or
Press  to disable the green control.

Press  to save and exit, or
Press  to exit without saving.

Note: ON implies enable whereas OFF implies disable. The default setting will switch to ON automatically once code learning is completed.

Control Delete

Scroll through the menu until **':7 Control Delete'** is displayed.

To change the setting press  .

Press  to delete the group, or
Press  to retain the group.

Note: Once "delete" is selected, the green control (receiver) is removed together with any setting that is related to the green control.

Green Remote/Sensor

For transmitter type of devices, scroll through the menu until **'6-2 Green Remote/Sensor'** is displayed.

Enter device number (1-32) to be configured and press  .

Code Learning

This enables the Smart Home Box learns ID from Green Remote/Sensor.

Scroll through the menu until **':1 Learning ID'** is displayed and press  .

Press learning key 3 seconds on the transmitter to emit ID code to the Smart Home Box instantly.

Three possibilities would happen as follows:

Learning OK – the ID code was learned by the Smart Home Box successfully.

Time Out – the time for ID code learning is 30s. During this time, if the Smart Home Box failed to capture the ID code emitted by transmitter, it would result in overdue programming.

ID Duplicate – the same ID code was learned by the Smart Home Box beforehand.

Device Status

This sets the Green Remote/Sensor is to be enabled or disabled. Scroll through the menu until **':2 Device Status'** is displayed.

Default setting: OFF

To change the setting press  .

Press  to enable the Green Remote/Sensor, or

Press  to disable the Green Remote/Sensor.

Note: ON implies enable whereas OFF implies disable. The default setting will change to ON automatically once code learning is completed.

Device Deletion

To delete the device, scroll through the menu until **':3 Device Delete'** is displayed.

To change the setting press  .

Press  to delete the device, or

Press  to retain the device.

RECORD SCENE VOICE

This voice record is set for scene, event and schedule. Scroll through the menu until **'6-3 Record Scene Voice'** is displayed and press  .

Scroll through the menu until the required number of voice to be recorded is displayed and press  .

Press  to start recording or
Press  to stop recording.

Note: the record time is 4 seconds.

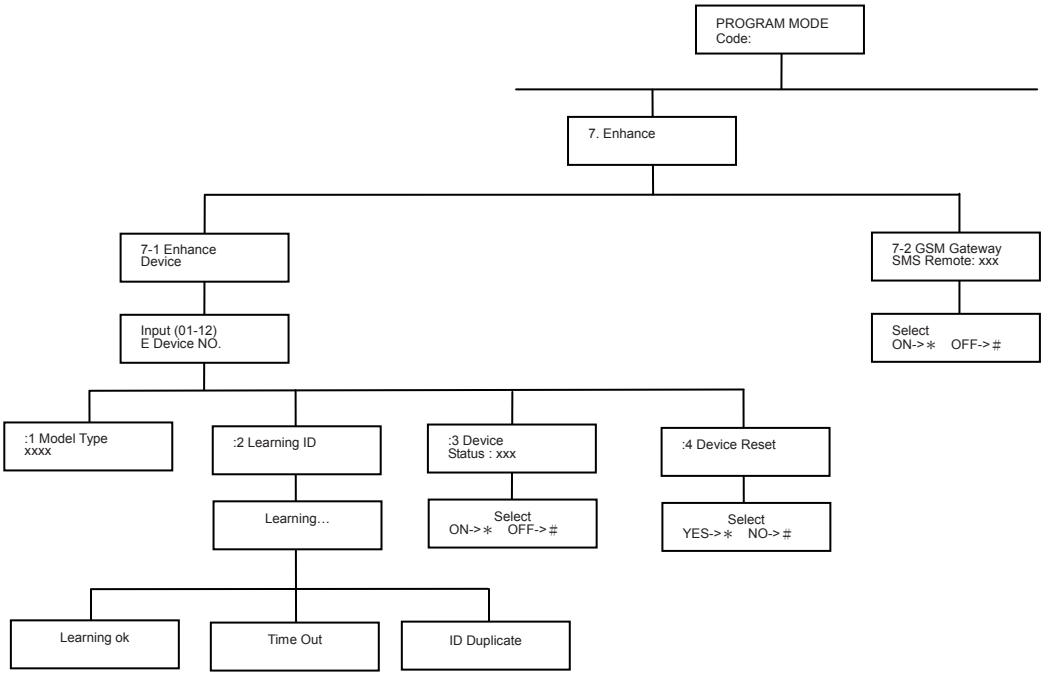
PLAY SCENE VOICE

Scroll through the menu until **'6-4 Play Voice'** is displayed, press  and then scroll through the menu until the voice to be played is displayed and press  .

To replay the message press  .

Press  to return to the top level play scene voice setup menu.

ENHANCE SETUP



Enhance setting is designed specially for transceiver type of devices, i.e. device with 868 MHz radio frequency.

Scroll through the top level programming menu until **'7. Enhance Device'** is displayed and press  .

Enter device number (1-12) to be configured and press  .

Model Type

After inputting Device Number, **':1 Model Type'** is displayed. The model name of the learned device will be displayed.

Code Learning

This enables the Smart Home Box learns ID from each transceiver.

Scroll through the menu until **':2 Learning ID'** is displayed and press  .

Press learning key on the device will emit ID code to the Smart Home Box instantly.

Three possibilities would happen as follows:

Learning OK – the ID code was learned by the Smart Home Box successfully.

Time Out – the time for ID code learning is 30s. During this time, if the Smart Home Box failed to capture the ID code emitted by device, it would result in overdue programming.

ID Duplicate – the same ID code was learned by the Smart Home Box beforehand.

Device Status

This sets the device to be enabled or disabled. Scroll through the menu until **':3 Device Status'** is displayed.

Default setting: OFF

To change the setting press  .

Press  to enable the device, or
Press  to disable the device.

Note: ON implies enable whereas OFF implies disable. The default setting will change to ON automatically once code learning is completed.

Device Deletion

To delete the device, scroll through the menu until **':4 Device Reset'** is displayed.

To change the setting press  .

Press  to delete the device, or
Press  to cancel deletion.

GSM Gateway SMS Remote

To enable/disable GSM Gateway to control Smart Home Box remotely, scroll through the menu until **'7-3 GSM Gateway SMS Remote'** is displayed.

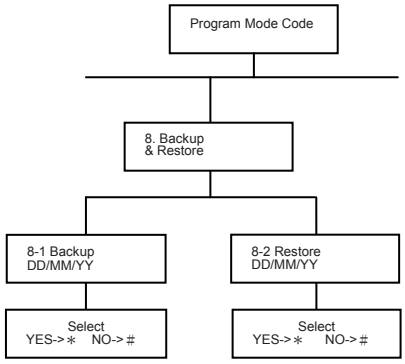
Default setting: ON

To change the setting press  .

Press  to enable remote control, or
Press  to disable remote control

If Smart Home Box is controlled by GSM Gateway using SMS message turns out to be not safe enough, the user may disable this feature.

BACKUP & RESTORE



Scroll through the programming menu until **'8. BACKUP & RESTORE'** is displayed and press .

Use the and buttons to scroll through the menu until the required option is displayed and press .

BACKUP

Scroll through the menu until **'8-1 Backup DD/MM/YY'** is displayed.

To enter the setting press .

Press to backup, or

Press to cancel backup.

Note: the date displayed will be local current date.

RESTORE

Scroll through the menu until **'8-2 Restore DD/MM/YY'** is displayed.

To enter the setting press .

Press to restore, or

Press to cancel restoration.

Note: the date displayed will be last back-up date.

OPERATING INSTRUCTIONS

When leaving the premises, the system must be Armed. However, before doing so, check that all windows are closed and locked, all protected doors are closed and Motion Detectors are not obstructed. Ensure that pets are restricted to areas not protected by Motion Detectors.

The system has four arming modes, Fully Arm, Holiday Arm, Partial Arm and Night Arm. The Night Arm is similar to Partial Arm which allows selected zones to be left in Disarm while the remaining system stays in Arm, whereas Holiday Arm is similar to Fully Arm.

When the system is Armed (in any mode) the Smart Home Box will display the arming mode and the status of the Latch Key for a few seconds. If enabled, the system Exit-Delay will start and be counted down on the display. As the Exit-Delay expires the Smart Home Box will beep, with the beep rate increasing in steps as the delay expires. At the end of the Exit-Delay all active zones will be Armed. By this time the user should already be out of the property with the door closed.

If while the system is armed a detector on an active zone is triggered, if enabled, the programmed Entry-delay for all zones will start and be counted down on the display. As the Entry-Delay expires the Smart Home Box will beep, with the beep rate increasing in steps as the delay expires. If the system has not been disarmed when the Entry-Delay expires an alarm will occur. If however, the Entry-Delay for the triggered zone has been disabled an alarm will occur immediately.

At the end of the programmed alarm duration the Siren and Smart Home Box alarms will stop and the system will automatically re-Arm.

FULLY ARM

To set the Smart Home Box in Fully Arm, using either the Remote Control or the Smart Home Box as follows:

Remote Control:

Press the 'Arm' button, 

Smart Home Box:

Press the 'Arm' button followed by the User Password and then the 'Enter' button:

User Password

By pressing  , the programmed exit delay will be overridden to 5 seconds.

Note: Once the system is armed, the 'ARM' LED stays on steadily.

HOLIDAY ARM

Remote Control:

Press the 'Arm' button,  enabling the Smart Home Box to enter Fully Arm. Press the 'Arm' button  again to enter Holiday Arm.

Smart Home Box:

Toggle the 'Arm' button between 'Fully Arm' and 'Holiday Arm'. When 'Holiday Arm' appears, input User Password and then the 'Enter' button. If the User Password is correct, an indication of 'Holiday Arm' will be shown on the LCD screen.

User Password

By pressing  , the programmed exit delay will be overridden to 5 seconds.

Note: Once the system is armed, the 'ARM' LED stays on steadily.

NIGHT ARM

To set the Smart Home Box in Night Arm, using either the Remote Control or the Smart Home Box as follows:

Remote Control:

Press the 'Night Arm' button,  .

Smart Home Box:

Press the 'Night Arm' button followed by the User

Password, and then the 'Enter' button. If User password is correct, an indication of 'Night Arm' will be shown on the LCD screen:

User Password

By pressing 0, the programmed exit delay will be overridden to 5 seconds.

Note: Once the system is in Night Arm, the 'ARM' LED is flashing on and off alternatively.

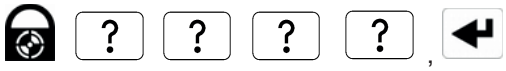
PARTIAL ARM

Remote Control:

Press the 'Night Arm' button, , enabling the Smart Home Box to enter 'Night Arm'. Press the 'Night Arm' button again to enter 'Partial Arm'.

Smart Home Box:

Toggle the 'Night Arm' button between 'Night Arm' and 'Part-Arm'. When 'Part-Arm' appears, input the User Password and then the 'Enter' button. If the User Password is correct, an indication of 'Part-Arm' will be shown on the LCD screen.



User Password

By pressing 0, the programmed exit delay will be overridden to 5 seconds.

Note: Once the system is in Partial Arm, the 'ARM' LED is flashing on and off alternatively.

DISARM

To disarm the Smart Home Box, using either the Remote Control or the Smart Home Box as follows:

Remote Control:

Press the 'DISARM' button, .

Smart Home Box:

User Password

If the system is disarmed and the 'ALARM MEM/MESSAGE' LED is flashing with the panel beeping every few seconds, this indicates that an alarm condition has occurred. Use the Event Log to find out and make a note of where the alarm occurred to assist in tracing the cause of the alarm.

QUICK SET

The following lists a series of quick set functions by using digit buttons. Please make sure the Smart Home Box is in DISARM mode before you operate them.

Countdown Shortening

To shorten the countdown time in 5s, overriding the programmed exit delay.

Press 0 ? ? ? ?

User Password

This allows the system enters Fully Arm Mode.

Chime

Press 2 to toggle the Chime facility between ON and OFF.

Note: If the Chime is ON and the system is then armed, the Chime will remain ON even though the system is disarmed later.

Mute

Press 3 to toggle the Mute facility between ON and OFF.

Note: If the Mute is ON, no voice guidance will be made during operation. If the mute is OFF, voice guidance will be active. However, if 'LINE STATUS' LED illuminates while the mute is ON, there is no voice guidance will be available.

GREEN CONTROL FUNCTION

Press 6 to enter green control selection function, and use the ▲ and ▼ buttons to select desired green control to be executed, and then press .

Use (On), (Off), (Start) and (Stop) buttons to control the green control related actions.

Scene

Press 7 to enter scene selection function, and use and buttons to select desired scene to be execute, and then press .

All On/All Off

Press to turn ON all the green control device,
or
Press to turn OFF all the green control device.

Note: Our curtain switch devices cannot be executed All On/All Off function.

Event Log

The Event Log will store the last 100 system arm, disarm, alarm and detector Low Battery events. The Event Log will record the time, date and details for each event. If when the system is disarmed the 'ALARM MEM/MESSAGE' LED is flashing and the Smart Home Box beeps every 10s which is changeable (refer to 'home box' setup under sub-menu 'error beep' for selection), this indicates that an alarm has occurred. To cancel the LED and stop the beeping you must access the event log and press ESC to exit so as to eliminate the flashing 'ALARM MEM/message' LED and the beeping as well.

To access the Event Log, press 8.

The Event-Log will automatically start scrolling through and displaying the event data starting with the most recent event. The data for each event is shown on two screens (event name first follow by event day) , and each screen will be displayed for 5 seconds before moving on to the next screen and then the next event.

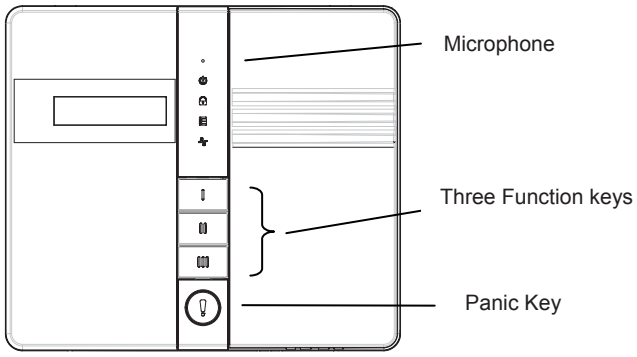
Use the and buttons to manually scroll through the event log to the required position as necessary.

Press ESC to return to Disarm.

LED INDICATION

The LED indication represents the following status:

	On steadily	Flash	Off
	AC power in use	Battery in use	-----
	System is Fully/holiday armed	System is set in Partial/Night arm	System is disarmed
	Message	Alarm memory	Normal
	Telephone in use	Abnormal telephone line	Normal telephone line



FUNCTION KEY

There are four Function Keys on the front panel of the Smart Home Box.

The package includes PIR Detector, Magnet Contact Detector, Green Control and Green Remote Sensor. Once function key is pressed, the devices will enter arm/disarm (security/home automation) mode. The table below lists the preset setting of these four devices after function key is pressed.

Device / Function Key	Preset Message	PIR Detector	Magnet Contact Detector	Green Control
I (Fully Arm)	I will watch over the house!	Security	Security	OFF
II (Disarm)	Welcome home	Home Automation	Home Automation	ON
III (Night Arm)	Good night, sweet dream	Home Automation	Security	Unchange

Setting Sequence:

Press [I] -> plays “I will watch over the house!” -> system enters fully arm mode -> PIR Detector sets to ON while Magnet Contact Detector and Green Control sets to OFF.

Note: Pressing [III] function key will initiate the preset event setting and sets the event to ON. So if a movement is detected by PIR Detector, the Green Control will turn ON and then turn OFF 5 minutes later.

Panic Switch

The Smart Home Box also incorporates a Panic Switch. Press [!] 2 seconds will immediately initiate a full alarm condition whether the system is Armed or Disarmed.

Tamper

If the battery cover of any device is removed or if the Motion Detector or Smart Home Box is removed from the wall then a Full Alarm condition will be initiated even if the system is Disarmed. The alarm condition will continue either for the alarm duration when the system will automatically reset or until the system is Disarmed.

The ‘ALARM MEM/MESSAGE’ LED on the Smart Home Box will flash and the panel will beep every few seconds to indicate an alarm has occurred.

Note: The Tamper protection facility on the Motion Detector operates independently. If the Tamper on the Motion Detector is activated this will not be indicated at the Smart Home Box.

TELEPHONE LINE DETECTION

When setting to the voice dialer and If ‘LINE STATUS’ LED is flashing, it implies bad telephone line connection or telephone network being out of order. Check the telephone line and re-test it.

When setting to the digital dialer and if ‘LINE STATUS’ LED is flashing, it implies two causes of failure. One is bad telephone line connection or telephone network being out of order. The other cause of failure is derived from the central monitoring station. Consult with the central monitoring station for help.

REMOTE SYSTEM CONTROL

If the Remote System Control facility is enabled, the Smart Home Box will answer the call after the set number of rings and emit three beeps on the phone line to prompt for a User Password to be entered using the telephone keypad.

A valid User Password will be acknowledged with voice guidance. An incorrect code will be acknowledged with voice guidance.

If the User Password is not entered within 30s or is entered incorrectly three times then the Smart Home Box will automatically hang-up the line.

By pressing the [#] button on the telephone keypad within 30 seconds, the Smart Home Box will automatically hang-up the line.

Use with an External Answer-Phone

If the Remote System Control is to be used in conjunction with an external Answer-Phone then:

The number of ‘one call ring’ for the Smart Home Box must be greater than that of the External Answer-Phone, otherwise the Smart Home Box will always pickup the call before the Answer-Phone.

To access the Remote System Control facility the Smart Home Box has a ‘double call dial-in’ feature to enable the Smart Home Box to pick-up the phone call before the external Answer-Phone cuts in. The ‘double call dial-in’ procedure is as follows:

1. Dial up the system and hang up after two rings.

2. Redial up the system within 28s as maximum (14s as minimum), the system will pickup the phone after 1 ring.

3. Enter the User Password as normal.

The following functions may be access via the remote. The system will acknowledge each signal with voice guidance.

Press * 1 to initiate ARM.

Press * 2 to initiate Partial Arm.

Press * 3 to initiate Holiday Arm.

Press * 4 to Disarm the system.

Press * 5 to turn OFF all of Green Control.

Press * 6 to turn the Siren OFF.

Press * 7 to turn the Siren ON.

Press * 8 to Listen-In via the Smart Home Box Microphone.

Press # to stop Listen-In

Note: Listen-in will be automatically cancelled after 5 minutes if not cancelled manually.

Press * 9 to interrogate the system status. A message playing the latest status can be heard.

Press * 0 to read the status of AC power supply.

Press * # to end the remote system control and hang up the Smart Home Box line.

BATTERY MONITORING

All system devices continuously monitor their battery condition. The Smart Home Box also monitors the battery condition of all PIR and Magnetic detectors. If the battery level of any device drops below acceptable levels then its low battery indication will be activated. In addition if any PIR or Magnetic Contact detector has a low battery status it will be recorded by the Smart Home Box and a message stored in the event log.

In the event of AC adaptor being disconnected from the Smart Home Box, the Smart Home Box by consuming the DC rechargeable battery can sustain 8 hours of normal operation (under Disarm mode). However, the battery for that device should be replaced as soon as possible.

Note: Before removing the battery cover on any device to replace the battery ensure that the system is put into Test mode to avoid initiating a Full Alarm condition.

The low battery indication for each system component is as follows:

Smart Home Box

During a period of mains supply interruption, the Smart Home Box will be powered by the rechargeable backup batteries. Under this circumstance, a radio signal will be emitted to the central monitoring station or the telephone voice dialer will call the set numbers right away; this procedure will repeat again after 4 hours. Under normal battery conditions the Power LED on the panel will flash at 1s intervals.

Remote Control

When the Remote Control is operated under low battery conditions the transmit LED will continue to flash after the button has been released.

Under normal battery conditions the LED will extinguish when the button is released.

PIR Detectors

Under low battery conditions the LED behind the detector lens will flash when movement is detected to indicate that the battery needs to be replaced.

Under normal battery conditions the LED does not illuminate unless the PIR detector is in Walk Test mode.

Magnetic Contact Detectors

Under low battery conditions, when the Detector is activated the transmit LED will be illuminated for approximately 1s as the door/window is opened.

Under normal battery conditions the LED will not illuminate as the Detector is operated, (unless the Detector is in Test Mode with the battery cover

removed).

Wall Switch

Under low battery conditions, when the button is pressed, the LED will flash.

Under normal battery conditions the LED will illuminate steadily as the button is pressed.

MAINTENANCE

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

SMART HOME BOX

The rechargeable batteries have a typical life of 3-4 years and need no maintenance during this period, provided they are kept charged. The batteries will be damaged if they are stored in a discharged state for long periods.

DETECTORS AND REMOTE CONTROL

The Detectors require very little maintenance. The batteries should be replaced once a year or when a low battery status is indicated.

IMPORTANT: Should you, for any reason, have to completely power-down the system (e.g. to move the system to a new premises) first put the system into Test mode before removing the Smart Home Box cover and disconnecting the power supply and backup batteries.

BATTERIES

Before removing the battery cover on any device to replace the battery, ensure that the system is put into Test mode to avoid initiating an Alarm.

The specifications for replacement batteries are as follows:

Remote Controls	1 x 3V CR2032 Lithium Cells (or equivalent)
Magnetic Contact Detectors	1 x 3.6V 1/2 AA Size Lithium Cells (or equivalent)
PIR Detectors	1 x 3.6V 1/2 AA Size Lithium Cells (or equivalent)
Wall Switch	1 x 12V 23A Size Battery (or equivalent)

Note: Rechargeable batteries should NOT be fitted.

At the end of their useful life the batteries should be disposed of via a suitable Recycling Centre. Do not dispose of with your normal household waste. DO NOT BURN.

The Rechargeable batteries contain Sulphuric Acid – DO NOT ATTEMPT TO OPEN THE CASING.

ALARM RECORD

Complete the following information during installation for future reference when adding to your system and to assist Trouble Shooting.

			Security Sensor Zone Settings			
Zone	Detector Type(s)	Location	Type	Chime	Night Arm	Partial Arm
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

Zone	Detector Type(s)	Location	Type	Chime	Night Arm	Partial Arm
33						
34						
35						
36						

You may make a note of your User Password and Installer Password below.

System Password

User 1: _____ User 2: _____ User 3: _____

User 4: _____ User 5: _____ User 6: _____

User 7: _____

Admin. User: _____

Voice Dialer Phone Numbers

Phone No. 1: _____ Phone No. 2: _____

Phone No. 3: _____ Phone No. 4: _____

Phone No. 5: _____ Phone No. 6: _____

Phone No. 7: _____ Phone No. 8: _____

Phone No. 9: _____ Phone No. 10: _____

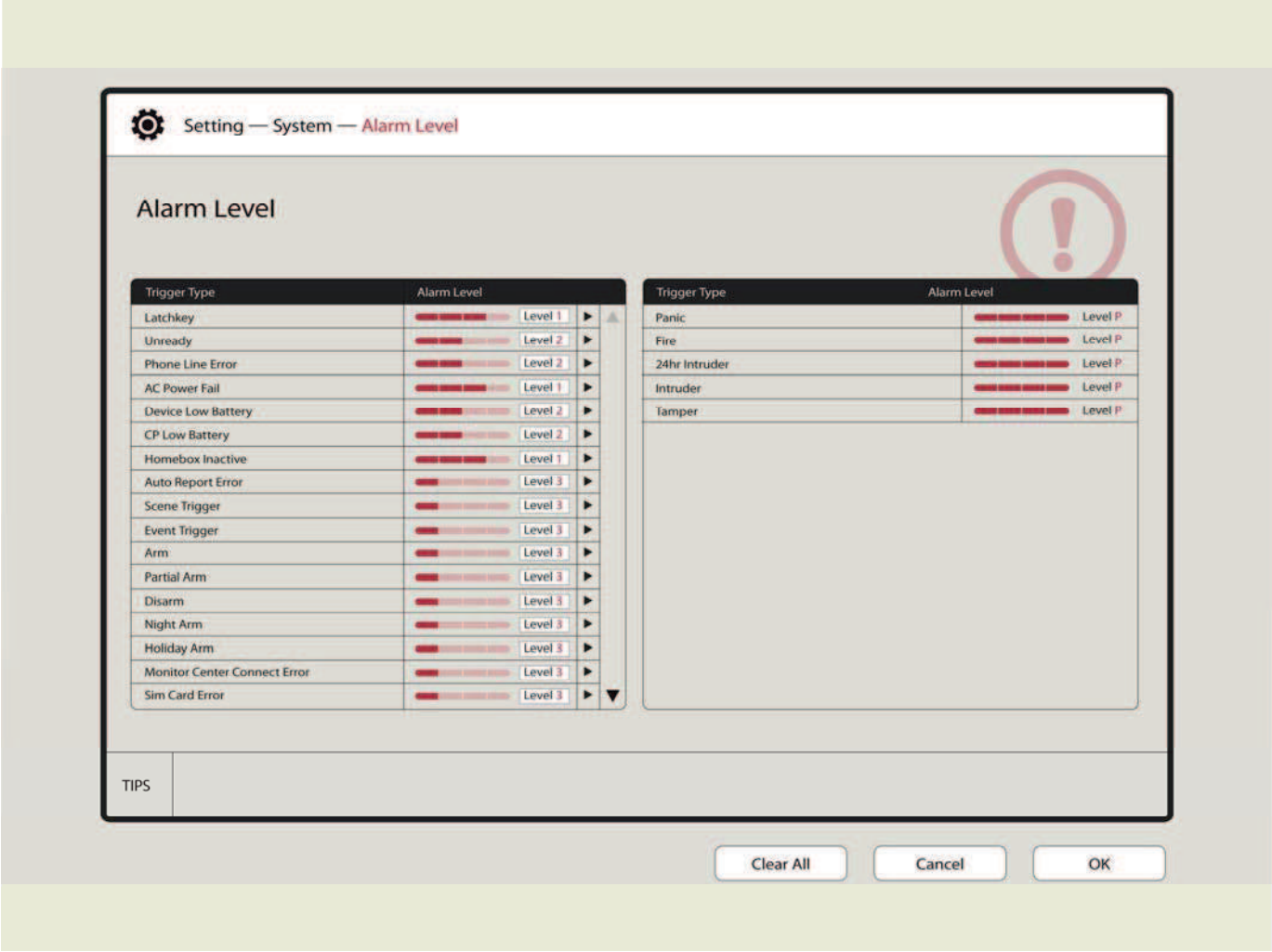
Digital Dialer Phone Numbers

Phone No. _____ System ID No. _____

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

ALARM LEVEL

To help you distinguish the difference among Level Panic, Level 1, Level 2 and Level 3, their definition read as follows:



Level Panic: **Alarm + Voice Dialer + SMS for GSM Gateway + Error Beep + Event Log**
When the Smart Home Box is triggered (fire, panic, intruder and 24h intruder) in the event of fire incident, an alarm will occur, the built-in voice Dialer will dial the preset phone number, GSM gateway will send SMS message, error beep will generate at regular intervals after alarm duration has expired and this specific event will be recorded in the event log as well.

Level 1: **Voice Dialer + SMS for GSM Gateway + Error Beep + Event Log**
When the Smart Home Box is triggered in the event of AC power failure, the built-in Voice Dialer will dial the preset phone number, GSM gateway will send SMS message and this specific event will be recorded in the event log as well.

Level 2: **SMS for GSM Gateway + Error Beep + Event Log**
While the Smart Home Box is set from disarm to fully arm but door/window has not been closed properly, GSM

Gateway will send SMS message, error beep will generate at regular intervals and this specific event will be recorded in the event log as well.

Level 3: **Event Log**

When the Smart Home Box is armed or disarmed, this specific event will be recorded in the event log.

TROUBLESHOOTING

Smart Home Box not working – Power LED OFF or flashing

1. Mains power failure – check if other electrical circuits are operable.
2. Check that mains adaptor is plugged in and socket is switched ON.
3. Check mains fuse in Plug has not blown.
4. Check that DC jack plug from mains adaptor is connected in Control Panel.
5. Check fuse/MCB in Consumer Unit on the circuit serving the Control Panel.

   Note: Before replacing any fuses or resetting the MCB, the cause of the failure should be investigated and rectified.

Smart Home Box not accepting User Password

1. Pause between key depressions too long. Do not pause for more than 5 seconds between pressing keys.
2. Incorrect code entered.
3. Reset to factory defaults and reprogram system.

Smart Home Box not responding to detectors

1. Ensure that the 'Code Learning' from the Detectors is correctly proceeded.
2. Ensure detector is within effective radio range of Control Panel and equipment is not mounted close to metal objects.
3. Detector battery low – replace battery.

Voice-Dialer not responding to Alarm

1. Telephone line not connected or faulty – check phone line with another phone.
2. Set 'Voice Dial' to on.
3. Incorrect phone numbers programmed
4. Phone numbers disabled in dialing sequence
5. Alarm messages not recorded
6. Under Notification Setup of programming instructions, set 'Level Panic' and 'Level 1' to on.

Smart Home Box not contacting central monitoring station service on alarm

1. Telephone line not connected or faulty – check phone line with another phone.
2. Set 'Monitor Center' to on
3. Incorrect phone number for central monitoring station service programmed
4. Incorrect system ID number for central monitoring station service programmed.
5. Central monitoring station service not commissioned or signed up.

Smart Home Box not responding to Remote Phone Access

1. Telephone line not connected or faulty – check phone line with another phone
2. Set 'TEL/SMS Remote' to on
3. Incorrect User Password entered

Latch Key not responding when system disarmed

1. Telephone line not connected or faulty – check phone line with another phone
2. Set 'Voice Dial' to on
3. Set 'Latchkey Report' to on
4. No Latch-Key phone numbers programmed
5. Under Notification Setup of programming instruction, set 'Level 1' of 'TEL Phone 1' to on

Full alarm condition occurs when system has not been triggered by an intruder or is disarmed

1. Tamper switch activation
   - check all detector battery covers to ensure correctly fitted
   - check Control Panel and Siren are securely mounted to the wall and tamper switch is closed
2. Panic alarm operated from a Remote Control or Keypad
3. Jamming detection circuit operated

LED on remote control not illuminating, or is dim when unit is operated

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

PIR 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
4. Ensure that the detector is not in a draughty area
5. Sensitivity detection set too high –reset to low sensitivity detection

PIR Detector not detecting a person's movement

1. Check battery connections are good.
2. Sensitivity detection set too low– reset to high sensitivity detection.
3. Check that the detector is correctly set up.
4. Ensure DIP switches 1-2 of SW2 are correctly set.
5. Ensure that detector is mounted the correct way up.
   (i.e. with detection window at the bottom)
6. Ensure that the detector is mounted at the correct height, (i.e. 2-2.5m).
7. Allow up to three minutes for detector to stabilize.

PIR Detector LED flashes on detection of movement, (device in normal operation mode)

1. Low battery – replace battery.

Event & Schedule not working under disarm, fully arm and partial arm

Set 'Event & Schedule' to on

Magnetic Contact Detector not working

1. Ensure batteries are connected with correct polarity.
2. Ensure battery connections are good.
3. Ensure 'Code Learning' emitted to Control Unit is correctly proceeded.
4. If no external contacts are connected ensure correct setting is made on the DIP switch
5. If external contacts are connected
   a. Check that all contacts are closed.
   b. Check all contacts are wired in series.

Magnetic Contact Detector false alarming

1. Ensure that gap between magnet and detector is less than 10mm.
2. Tamper switch below battery cover not depressed – check battery cover is fitted correctly and that fixing lugs are not broken.

LED on Magnetic Contact Detector illuminating when door or window is opened.

1. Low battery – replace batteries.

DIGITAL DIALER TRANSMISSION PROTOCOL

Contact ID Event Codes

Definition	Code
Fire/Smoke Alarm	110
Panic Alarm	120
Intruder Alarm	130
24hr Intruder	133
System Tamper	137
AC Failure	301
System Low Battery	302
Sensor Tamper	383
Sensor Low Battery	384
Cancel/Abort Alarm	406
System Test	601
Disarm(Open)/Arm(Close) by User	401
Periodic Test Report	602
Flood Alarm	113
Gas Alarm	151

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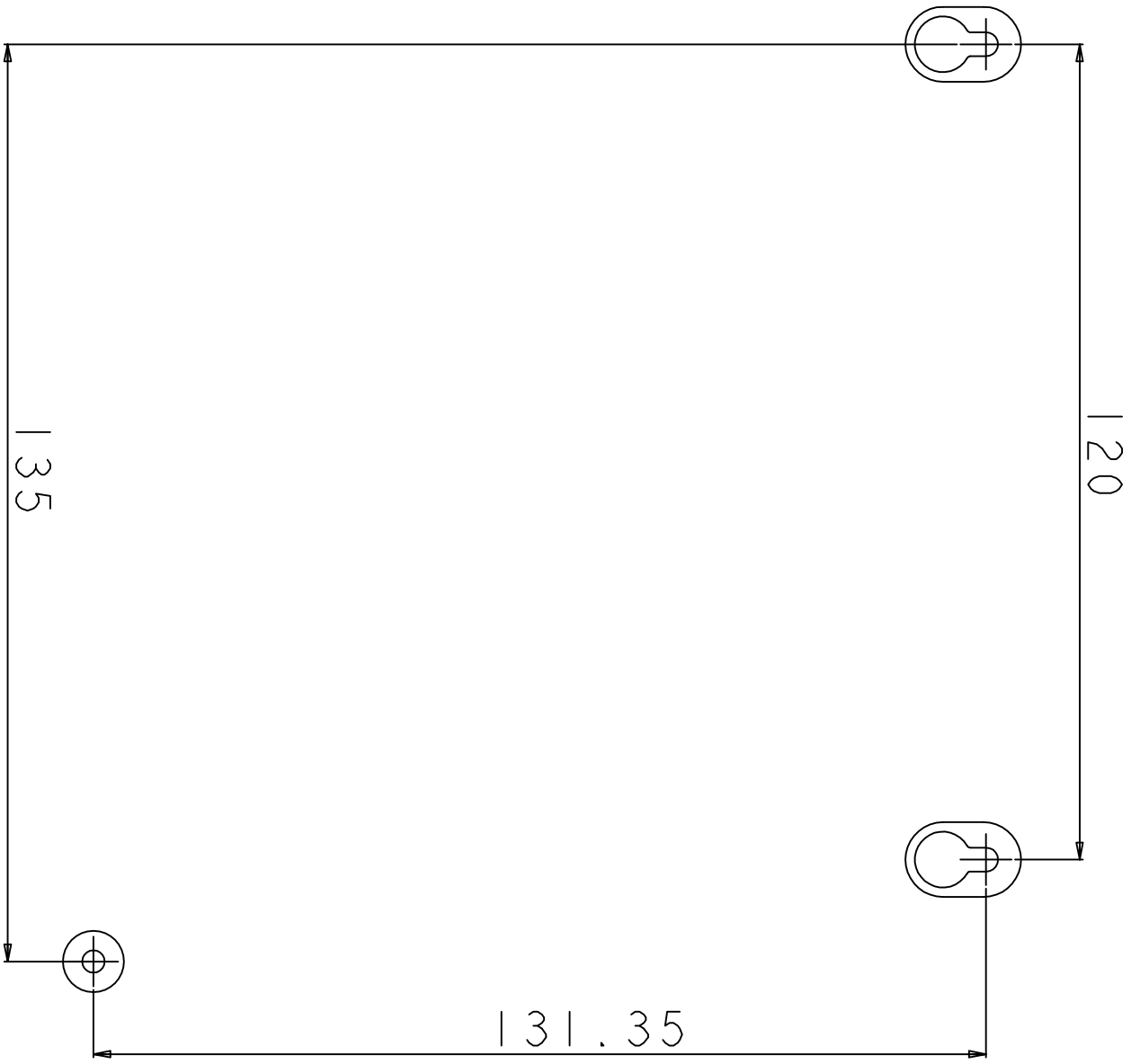
135
120
131.35