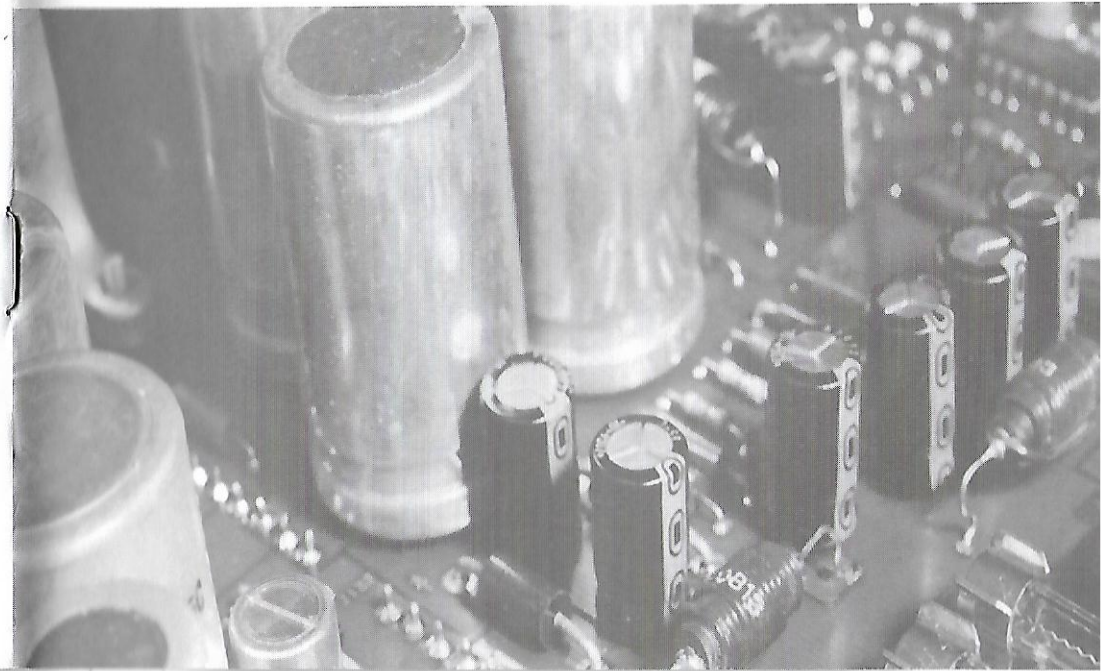


# HOME ALARM SYSTEM INSTALLER MANUAL

9/18 Zones



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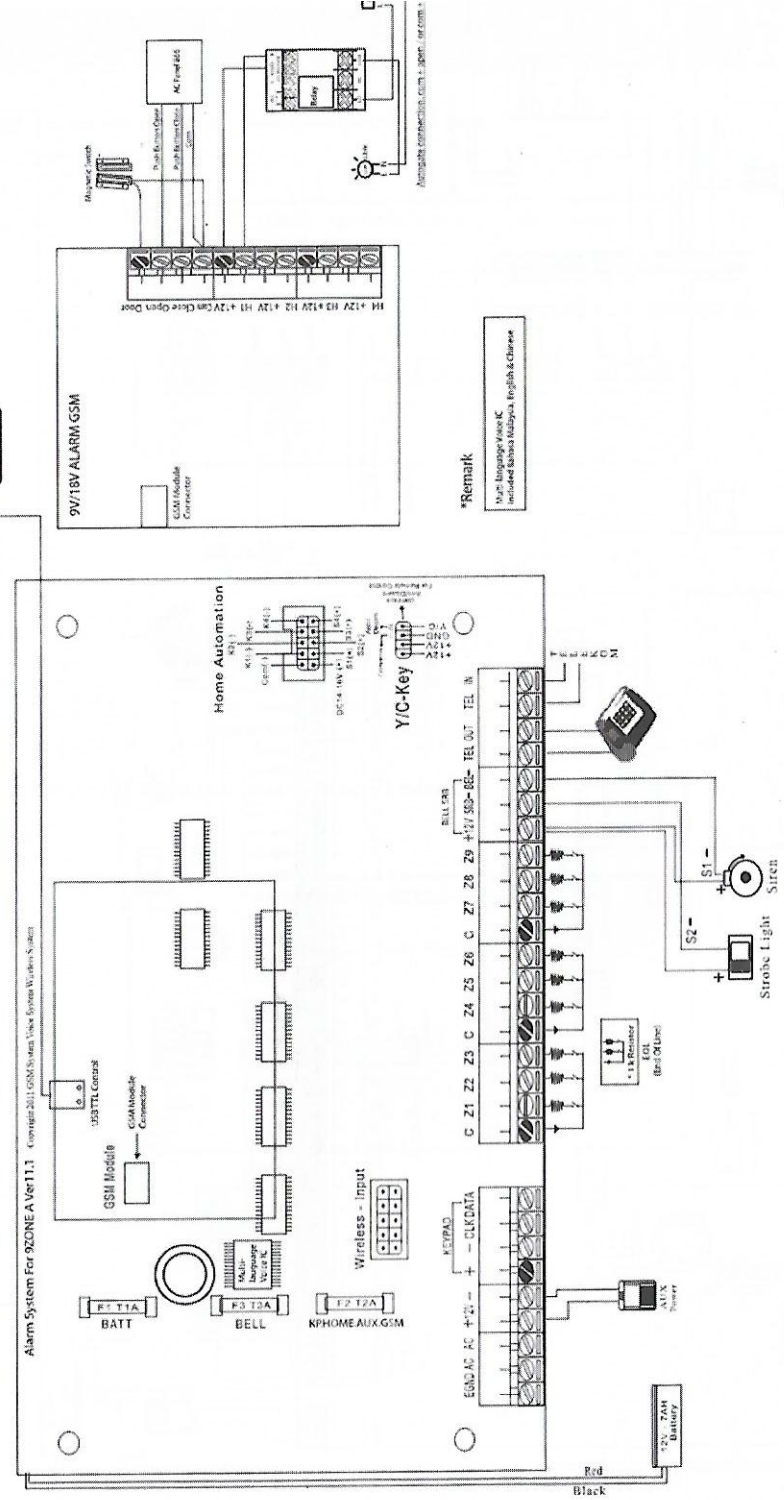
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## Section 1.1: About the System

Specifications	9 & 18 zone alarm system
Panel width	138mm
Panel height	43mm
Panel length	216mm
Maximum operating ambient temperature	50
AC supply voltage (transformer)	16.5 V
DC supply voltage	12-14 V
Nominal battery charge voltage	13.8 V
Low battery detection voltage	10.1 V
Typical battery capacity	12 V, 7 Ah
Reverse battery protection	Yes
AUX fuse	2A
Charge fuse	2A
Siren fuse	2A
Strobe fuse	1A
Supply current (idle)	120mA
Supply current (online)	200mA
Maximum DC output current (intermittent)	2Amp
End of line monitored inputs	Yes
End of line resistor value	1K Ohm
User code length	4 digits
Code lockout time	<10 sec
Number of user	9 users
Number of programmable zones	16 zones
Sensitivity for all zones	0 - 255 level
No-volatile memory for options	Yes
System dialer reporting method	Personal phone and CMS
Dual reporting	Yes
CMS dialing report format	Contact ID
Report types	sent Open / Close , Duress , Test , Zone Burglary, Auto test , Fire, Panic, Restoral
Maximum dialing attempts	10
Fail to communicate to trigger siren option	Yes
Ring detection	Yes
Number of rings to answer phone	0 to 255 ring
Automatic dial tone detection	Yes
Digital decoding / generation	Yes
Line isolation voltage	>1.5W
DTMF output level (typical)	-5 dBm
Handshake receive sensitivity (typical)	-43 dBm
Call progress tone sensitivity (typical)	-43 dBm
DTMF decode sensitivity (typical)	-35 dBm
DTMF decode minimum digit duration	45 mSec
Return loss (typical @1Khz, 50Ma)	20dB

## Section 1.2: Control Panel Hardware Overview

### SYSTEM WIRING DIAGRAM FOR 9 ZONE(V)



Panel Power - AC 16.5V

Keypad - Connect up to 4 keypads

Battery - 7AH

Zones Resister - 1kΩ

Y/C - Key module - Connect to remote control receiver

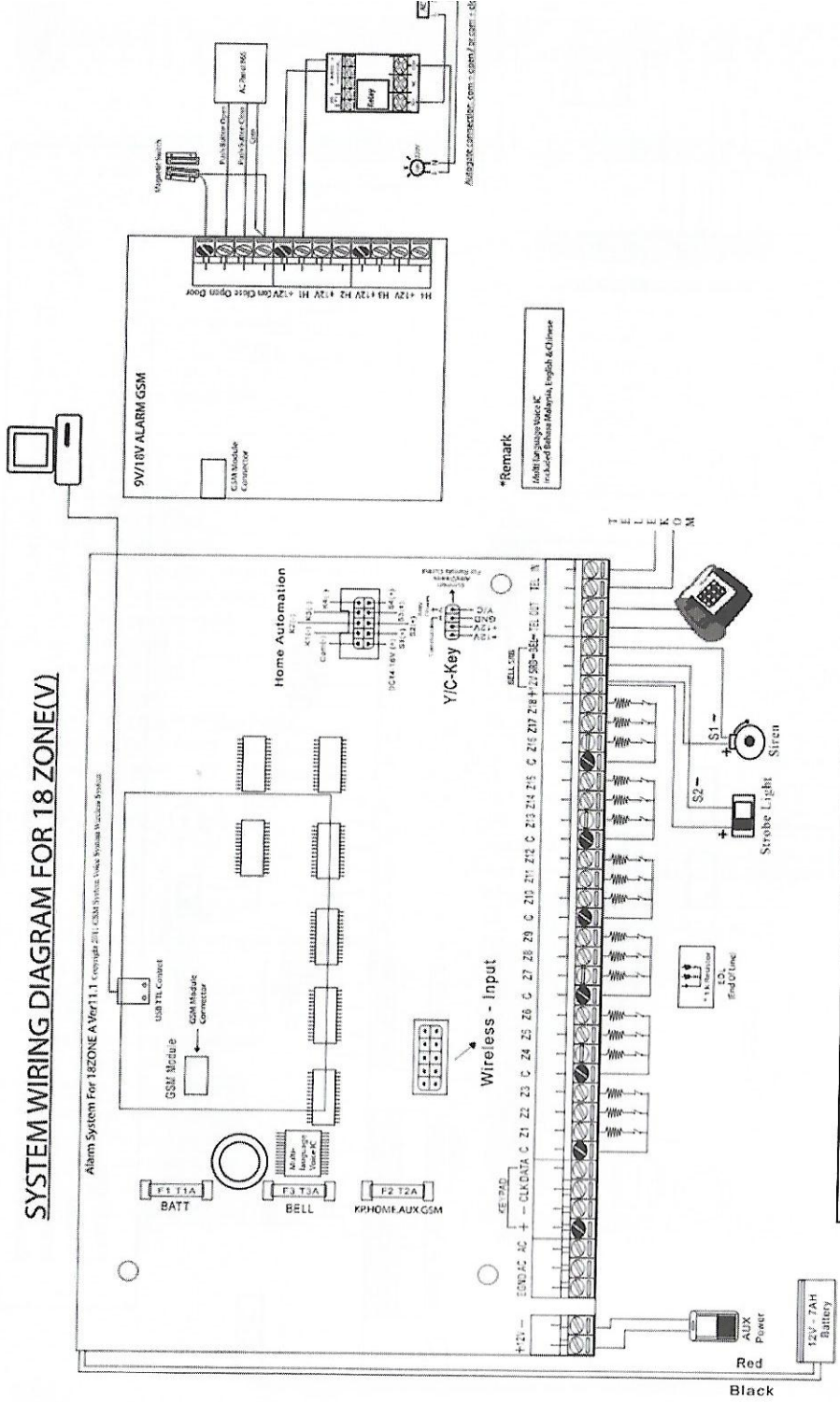
Wireless port - Connect 2 way wireless receiver

Home automation port - Connect to HAM board

SMS GSM Module port - Connect to GSM module SMS

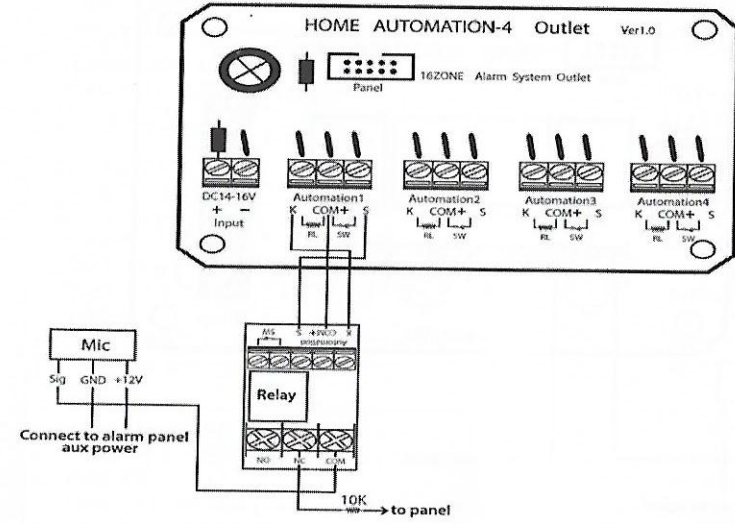
Optional

# SYSTEM WIRING DIAGRAM FOR 18 ZONE(V)

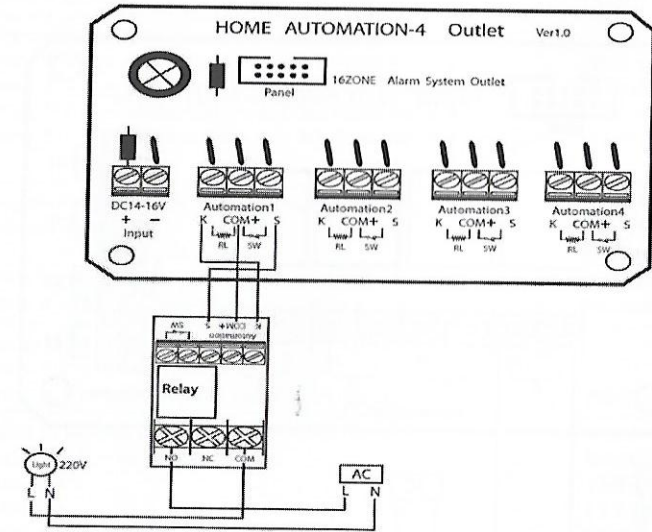


# Section 1.3: Home Automation

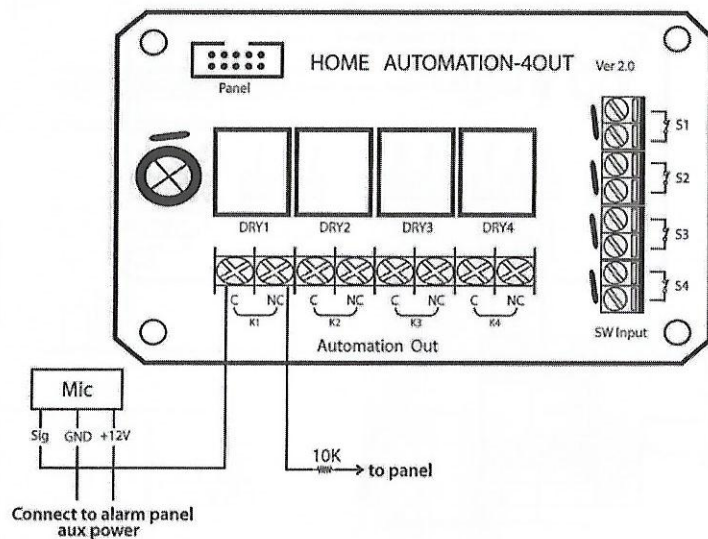
## 1. Wiring diagram for Microphone connection (Version 1 panel)



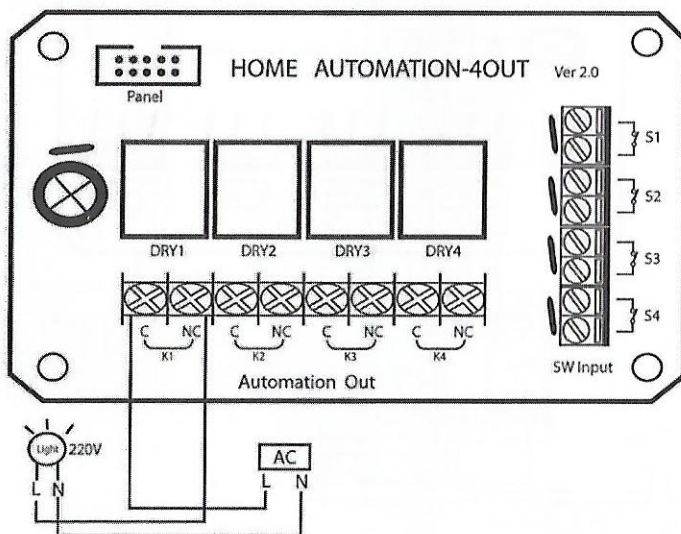
## 2. Wiring diagram for lighting connection (Version 1 panel)



### 3. Wiring diagram for Microphone connection (Version 2 panel)



### 4. Wiring diagram for lighting connection (Version 2 panel)



## Section 2.1: Simple Guide to 9 Zone(V) Alarm Programming

Default Codes:-

Master Code : 1234

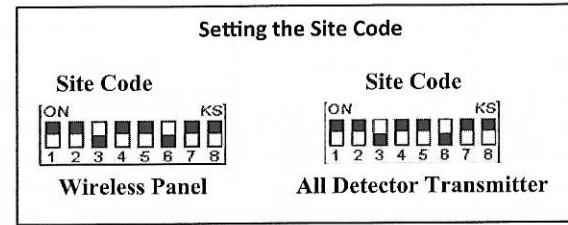
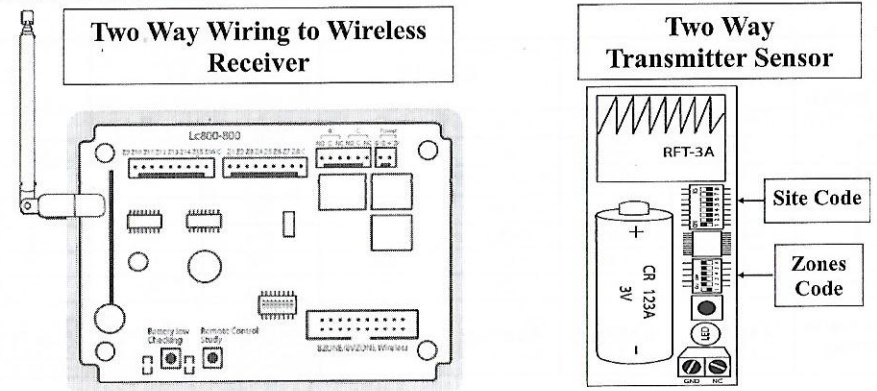
Installer Code : 7788

Step	Procedure	Keypad Display/Result
Step 1	<b>To Restore Panel Default Setting</b> 1. Press * + 2 + Installer Code + 9 9 2. Press # to exit programming.	BYPASS MEMORY READY
Step 2	<b>To Eliminate False Alarm Setting</b> 1. Press * + 2 + Installer Code 2. Press 1 3 3. Press 9 * 0 * 1 * 2 * 3 * 4 * 5 * 6 + # 4. Press 2 1 5. Press 9 * 0 * 1 * 2 * 3 * 4 * 5 * 6 + # 6. Press 2 3 7. Press 9 * 0 * 1 * 2 * 3 * 4 * 5 * 6 + # 8. Press 2 4 9. Press 9 * 0 * 1 * 2 * 3 * 4 * 5 * 6 + # 10. Press 2 5 11. Press 9 * 0 * 1 * 2 * 3 * 4 * 5 * 6 + # 12. Press # to exit programming.	BYPASS MEMORY 3 4 5 6 7 BYPASS MEMORY 1 2 3 4 5 6 7 8 BYPASS MEMORY 1 2 3 4 5 6 7 8 BYPASS MEMORY 1 2 3 4 5 6 7 8 BYPASS MEMORY 1 2 3 4 5 6 7 8 BYPASS MEMORY READY
Step 3	<b>To Program Entry Time</b> 1. Press * + 2 + Installer Code 2. Press 4 0 3. Press 0 3 0 (for 30sec) For example: 040 (40sec), 050 (50sec)..etc 4. Press # to exit programming.	BYPASS MEMORY 4 6 (40sec in default) BYPASS MEMORY READY
Step 4	<b>To Program Exit Time</b> 1. Press * + 2 Installer Code 2. Press 4 2 3. Press 0 9 0 (for 90 sec) 4. Press # to exit programming.	BYPASS MEMORY 4 5 6 7 (120sec in default) BYPASS MEMORY READY
Step 5	<b>To Program Personal Telephone Number</b> 1. Press * + 7 + Master Code + 1 + 1st Phone No. + # 2. Press * + 7 + Master Code + 2 + 2nd Phone No. + # 3. Press * + 7 + Master Code + 3 + 3rd Phone No. + # 4. Press * + 7 + Master Code + 4 + 4th Phone No. + #	READY READY READY READY
Step 6	<b>To Program PIR (Motion Detector) not to be triggered when Home Armed</b> 1. Press * + 2 + Installer Code 2. Press 1 2 + PIR Zone 3. Press # to exit programming.	BYPASS MEMORY PIR ZONE MEMORY
Step 7	<b>To Change Master Code</b> 1. Press * + 6 + Master Code 2. Press 0 + New No. + same New No. (4 digits)	READY (New Master Code set)
Step 8	<b>To Enable RF Remote Control Arming</b> 1. Press * + 2 + Installer Code 2. Press 3 3 3. Press 7 4. Press # to exit programming.	BYPASS MEMORY 1 2 3 4 5 6 1 2 3 4 5 6 7 READY

Default Codes:- Master Code : 1234 Installer Code : 7788

Step	Procedure	Keypad Display/Result
Step 1	<b>To Restore Panel Default Setting</b> 1. Press * + 2 + Installer Code + 9 9 2. Press # to exit programming.	BYPASS MEMORY READY
Step 2	<b>To Program Entry Time</b> 1. Press * + 2 + Installer Code 2. Press 4 0 3. Press 0 3 0 (for 30sec) For example: 040 (40sec), 050 (50sec)..etc 4. Press # to exit programming.	BYPASS MEMORY 4 6 (40sec in default) BYPASS MEMORY READY
Step 3	<b>To Program Exit Time</b> 1. Press * + 2 Installer Code 2. Press 4 2 3. Press 0 9 0 (for 90 sec) 4. Press # to exit programming.	BYPASS MEMORY 4 5 6 7 (120sec in default) BYPASS MEMORY READY
Step 4	<b>To Program Personal Telephone Number</b> 1. Press * + 7 + Master Code + 1 + 1st Phone No. + # 2. Press * + 7 + Master Code + 2 + 2nd Phone No. + # 3. Press * + 7 + Master Code + 3 + 3rd Phone No. + # 4. Press * + 7 + Master Code + 4 + 4th Phone No. + #	READY READY READY READY
Step 5	<b>To Program PIR (Motion Detector) not to be triggered when Home Armed</b> 1. Press * + 2 + Installer Code 2. Press 1 2 + PIR Zone 3. Press # to exit programming.	BYPASS MEMORY PIR ZONE MEMORY
Step 6	<b>To Change Master Code</b> 1. Press * + 6 + Master Code 2. Press 0 + New No. + same New No. (4 digits)	READY (New Master Code set)
Step 7	<b>To Enable RF Remote Control Arming</b> 1. Press * + 2 + Installer Code 2. Press 3 3 3. Press 7 4. Press # to exit programming.	BYPASS MEMORY 1 2 3 4 5 6 1 2 3 4 5 6 7 READY

Setting the System Code for Transmitter



Setting the Sensors/ Transmitters to Specific Zones

Zone / DIP Switch	Zone 1		Zone 2		Zone 3		Zone 4	
	A	B	A	B	A	B	A	B
1	On	Off	On	Off	On	Off	On	Off
2	On	On	Off	Off	On	On	Off	Off
3	On	On	On	On	Off	Off	Off	Off
4	On	On	On	On	On	On	On	On
5	On	On	On	On	On	On	On	On
6*	On	On	On	On	On	On	On	On
Zone Code Setting								

Zone / DIP Switch	Zone 5		Zone 6		Zone 7		Zone 8	
	A	B	A	B	A	B	A	B
1	On	Off	On	Off	On	Off	On	Off
2	On	On	Off	Off	On	On	Off	Off
3	On	On	On	On	Off	Off	Off	Off
4	Off	Off	Off	Off	Off	Off	Off	Off
5	On	On	On	On	On	On	On	On
6*	On	On	On	On	On	On	On	On
Zone Code Setting								

### Section 3.1a: Wireless Setting

#### Setting the System Code for Transmitter (Cont)

Zone / DIP Switch	Zone 9		Zone 10		Zone 11		Zone 12	
	A	B	A	B	A	B	A	B
1	On	Off	On	Off	On	Off	On	Off
2	On	On	Off	Off	On	On	Off	Off
3	On	On	On	On	Off	Off	Off	Off
4	On	On	On	On	On	On	On	On
5	Off	Off	Off	Off	Off	Off	Off	Off
6*	On	On	On	On	On	On	On	On
<b>Zone Code Setting</b>								

Zone / DIP Switch	Zone 13		Zone 14		Zone 15		Zone 16	
	A	B	A	B	A	B	A	B
1	On	Off	On	Off	On	Off	On	Off
2	On	On	Off	Off	On	On	Off	Off
3	On	On	On	On	Off	Off	Off	Off
4	Off	Off	Off	Off	Off	Off	Off	Off
5	Off	Off	Off	Off	Off	Off	Off	Off
6*	On	On	On	On	On	On	On	On
<b>Zone Code Setting</b>								

\* To activate temper switch, turn off the 6<sup>th</sup> DIP

#### IMPORTANT

User can select a maximum of two magnetic switches for **Zone A & B (for each zone)**.  
For vibration switches, user can use up to 10 sensors for each zone.

### Section 3.2: Connection Diagram for 2 Way Wiring to Wireless Receiver

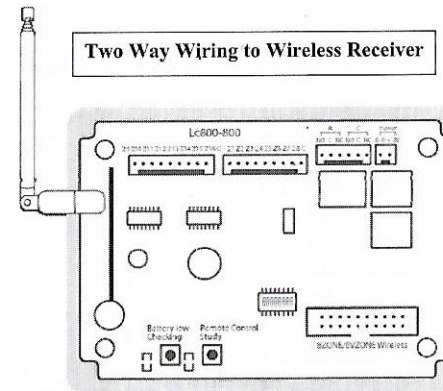


Figure 3

1. DC 12V which connect to the AUX in Alarm panel.
2. Connector for our House brand Alarm system.
3. Connector for others Alarm system.

#### 4. Low Battery Memory Clearance method

When transmitter in low battery condition, the transmitter would not automatically clear the memory. press & hold the Battery Low Checking button until the beep sound is off to clear the zone light after replace a new battery.

#### 5. Low Battery Memory Display method

When transmitter in low battery condition, it will not automatically display the low battery zone. There are 2 method to check the zones.

- 1) Manually press "Battery Low Checking" button to check the zone.
- 2) Using 2 way alarm Remote Control, press button 'D' to check the zone.

#### 6. Receiver for Remote Control (Code Hopping System)

The Hopping Code Technology is made up of ultra high tech hardware and software that serves to "encrypt" the signals transmitted by our security systems remote control. The codes randomly change each time you arm or disarm your alarm following a complex algorithm, so that the codes never repeat. Code Hopping provides you with better security and peace of mind, knowing that only your remote controlled transmitter can operate the systems.

Code Hopping Learning Process

**1. To Register a New Remote Control:**

**Step 1:** Press the "Remote Control Study Button" as indicate in figure 3; hold button for 5 seconds,

Red Led will turn on.

**Step 2:** Press any button of the Remote Control, to complete the Learning process.

**2. To Delete a Remote Control:**

**Step 1:** Press & hold the "Remote Control Learning" button for 10 seconds

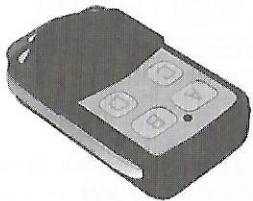
All registered Remote Control will be deleted.

- Note:**
1. Deleting the Remote Control does not change the operating mode of the receiver.
  2. Disconnecting the supply voltage does not cause losing information about the programmed controls or the operating mode of the receiver.

Characteristic of Hopping Code Remote Control

The 4 button Remote Control is use to control the Alarm system, which:

1.



- Button A : Home Automation Control
- Button B : Panic button with Siren triggered
- Button C : Panic button without Siren triggered
- Button D : Arm / Disarm

**Section 4: General Control Panel setting & Caller setting**

Step	Procedure								
Step 1	Press [*] + [2] + [Installer Code]								
Step 2	<table border="1"> <tr> <td>30</td> <td> <b>CMS Reporting Setting:</b>                      Z1: Report Panic (activate by keypad panic button)                      Z2: Report Duress (user # 8 will become duress code)                      Z3: Report Arm / Disarm                      Z4: Report AC loss                      Z5: Report enter / exit programming mode                      Z6: Report telephone line faulty                      Z7: Report Bypass                      Z8: Report Battery low   <b>By Default : LED of Z1, 2, 3, 4, 5, 6, 7 = ON</b> </td> </tr> <tr> <td>31</td> <td> <b>Caller Setting A:</b>                      Z1: Activate personal reporting                      Z2: Activate CMS reporting                      Z3: Activate progress tone monitoring on fix line                      Z4: Activate Fix Line                      Z8: Activate battery low trouble warning on keypad                 </td> </tr> <tr> <td>32</td> <td> <b>Caller Setting B:</b>                      Z1: Activate AC loss personal reporting                      Z2: Activate Battery low personal reporting                      Z3: Activate Double ring answering   <b>By Default : LED of Z1 = ON</b> </td> </tr> <tr> <td>33</td> <td> <b>System Setting:</b>                      Z1: Activate Keypad buzzer during entry delay time                      Z2: Activate Keypad buzzer during exit delay time                      Z3: Activate Short beeping during delay time                      Z4: DTMF dialing, else Pulse dialing                      Z5: Activate one key arming using H or A                      Z6: Activate Keypad panic button P                      Z7: Activate RF remote control arming                 </td> </tr> </table>	30	<b>CMS Reporting Setting:</b> Z1: Report Panic (activate by keypad panic button) Z2: Report Duress (user # 8 will become duress code) Z3: Report Arm / Disarm Z4: Report AC loss Z5: Report enter / exit programming mode Z6: Report telephone line faulty Z7: Report Bypass Z8: Report Battery low  <b>By Default : LED of Z1, 2, 3, 4, 5, 6, 7 = ON</b>	31	<b>Caller Setting A:</b> Z1: Activate personal reporting Z2: Activate CMS reporting Z3: Activate progress tone monitoring on fix line Z4: Activate Fix Line Z8: Activate battery low trouble warning on keypad	32	<b>Caller Setting B:</b> Z1: Activate AC loss personal reporting Z2: Activate Battery low personal reporting Z3: Activate Double ring answering  <b>By Default : LED of Z1 = ON</b>	33	<b>System Setting:</b> Z1: Activate Keypad buzzer during entry delay time Z2: Activate Keypad buzzer during exit delay time Z3: Activate Short beeping during delay time Z4: DTMF dialing, else Pulse dialing Z5: Activate one key arming using H or A Z6: Activate Keypad panic button P Z7: Activate RF remote control arming
	30	<b>CMS Reporting Setting:</b> Z1: Report Panic (activate by keypad panic button) Z2: Report Duress (user # 8 will become duress code) Z3: Report Arm / Disarm Z4: Report AC loss Z5: Report enter / exit programming mode Z6: Report telephone line faulty Z7: Report Bypass Z8: Report Battery low  <b>By Default : LED of Z1, 2, 3, 4, 5, 6, 7 = ON</b>							
	31	<b>Caller Setting A:</b> Z1: Activate personal reporting Z2: Activate CMS reporting Z3: Activate progress tone monitoring on fix line Z4: Activate Fix Line Z8: Activate battery low trouble warning on keypad							
	32	<b>Caller Setting B:</b> Z1: Activate AC loss personal reporting Z2: Activate Battery low personal reporting Z3: Activate Double ring answering  <b>By Default : LED of Z1 = ON</b>							
33	<b>System Setting:</b> Z1: Activate Keypad buzzer during entry delay time Z2: Activate Keypad buzzer during exit delay time Z3: Activate Short beeping during delay time Z4: DTMF dialing, else Pulse dialing Z5: Activate one key arming using H or A Z6: Activate Keypad panic button P Z7: Activate RF remote control arming								
Step 3	Press [#]								



## Section 5.1: Partition Description

Partition	Add	Zones	Program Step
A	21	1 - 16	[*] + [2] + [Installer Code] + [21] + [Zones] + [#]
B	22	—	[*] + [2] + [Installer Code] + [22] + [Zones] + [#]
User A	25	1 - 9	[*] + [2] + [Installer Code] + [25] + [User] + [#]
User B	26	—	[*] + [2] + [Installer Code] + [26] + [User] + [#]

\* By default, all of zones and users is only assigned to partition A.

For e.g.:

To program user 3&4 to partition B

[\*] + [2] + [Installer Code] + [26] + [ON 3 & 4] + [#]

## Section 5.2: Programming the System

### Master and User description

No. of user (n)	User Type	Example
0	Master	[*] + [6] + [Master Code] + [n] + [ ] [ ] [ ] [ ] + [ ] [ ] [ ] [ ]
1	User 1	
2	User 2	
3	User 3	
4	User 4	
5	User 5	
6	User 6	
7	User 7	
8	User 8	

## Section 5.3: System Caller setting

### Personal Report format

1- digit value (address location)	Telephone Number	Maximum Digits	Example
1	1 <sup>st</sup>	16	
2	2 <sup>nd</sup>	16	[*] + [7] + [Master Code] + [value] + [tel. no] + [#]
3	3 <sup>rd</sup>	16	
4	4 <sup>th</sup>	16	

### CMS Account number

Address location	Description	Default Value	Example
70	CMS Account number 1	0000	[*] + [2] + [Installer Code] + [Address] + [Acc No.] + [#]
71	CMS Account number 2	0000	
72	CMS Phone number 1	-	[*] + [2] + [Installer Code] + [address ] + [tel.no] + [#]
73	CMS Phone number 2	-	

## Section 5.4: Installer Code Default Setting

Add	Description	Default Value	Example
76	Change Installer Password	7788	[*] + [2] + [Installer Code] + [76] + [ ] [ ] [ ] [ ] + [ ] [ ] [ ] [ ]

## Section 5.5: Panel & User code Default Setting

Add	Description	Example
99	Reset Panel	[*] + [2] + [Installer Code] + [99]
98	Reset User code	[*] + [2] + [Installer Code] + [98]
88	Reset Panel (Bus Version)	[*] + [2] + [Installer Code] + [88]

## Section 5.6 : Timer Setting

Step	Procedure	Default
Step 1	Press [*] + [2] + [Installer Code]	
Step 2	40 - Entry timer for partition 1 41 - Entry timer for partition 2 42 - Exit timer for partition 2 43 - Exit timer for partition 2 44 - Siren timer for auto reset zone - program siren timer 45 - Fast respond timer - program level of zone sensitivity 46 - Slow respond timer - program level of zone sensitivity 47 - Intelligent zone counter 1 - program pulse counter for intelligent zone group 1 48 - Intelligent zone counter 2 - program pulse counter for intelligent zone group 2 49 - Intelligent zone reset timer 1- program timer for intelligent zone group 1 50 - Intelligent zone reset timer 2- program timer for intelligent zone group 2 51 - HAM 1 (refer to HAM programming) 52 - HAM 2 (refer to HAM programming) 53 - HAM 3 (refer to HAM programming) 54 - HAM 4 (refer to HAM programming) 55 - Keypad lock digit - program key in time of password error before keypad lock 56 - Keypad lock time - program number of second for keypad lock time 57 - Communicator Dialing time - program number of second to wait for answer 58 - Communicator Idle time - program of second to wait for key press before hang-up 59 - Communicator Dial loop - program of time to call on each telephone number 60 - Answer Ring - program number of rings the system answers the incoming call 61 - Communicator Password Error auto hang-up - program number of error password is allowed 62 - CMS Periodic Report	
Step 3	40 - 000 to 255 sec 41 - 000 to 255 sec 42 - 000 to 255 sec 43 - 000 to 255 sec 44 - 000 to 255 minute 45 - [000 to 255 sec] x 1.6ms ( 001 = high; 255=low ) 46 - [000 to 255 sec] x 1.6ms ( 001 = high; 255=low ) 47 - 000 to 255 times 48 - 000 to 255 times 49 - 000 to 255 minutes 50 - 000 to 255 times 51 - 000 52 - 000 53 - 000 54 - 000 55 - 000 to 255 times 56 - 000 to 255 sec 57 - 000 to 255 sec 58 - 000 to 255 sec 59 - 000 to 255 times 60 - 000 to 255 rings 61 - 000 to 255 times 62 - 000 to 255 hour; (000 mean disable)	040 040 120 120 005 008 015 002 003 010 030 008 009 000 000 012 060 040 040 010 008 012 024
Step 4	Press [#]	

## Section 5.7: Zone Characteristic setting

Add	Description	Zones (LED ON)	Description
10	Entrance zone	1	
11	Internal Delay zone	2	
12	Internal zone (Home)	—	
13	Instant zone (Away)	3-7, 9-16	8 zones = ON 3-7 ; 16 zones = ON 3-7, 9-16
14	24 Hour zone (Panic Zone)	8	
15	SMS zones	—	
16	Silent zone	—	Zone will not trigger siren but will activate caller
17	Normally Open zone	—	
18	Zones Respond	—	LED ON = slow respond ; LED OFF = fast respond
19	Intelligent Zone Counter Group 1	—	
20	Intelligent Zone Counter Group 2	—	
21	Zone Partition 1	1-16	8 zones = ON 1-8 ; 16 zones = ON 1-16
22	Zone Partition 2	—	
23	Auto Reset zone	1-16	8 zones = ON 1-8 ; 16 zones = ON 1-16
24	CMS Report zone	1-16	8 zones = ON 1-8 ; 16 zones = ON 1-16
25	Partition 1 user	1-8	
26	Partition 2 user	—	
27	Wireless zones	—	

[\*] + [2] + [Installer Password] + [address location] + [zone location to on] + [#]

## Section 5.8: Program System Time & HAM Timer Setting

Add	Description	Default Value	Format	Example
30	System Time	-	24 hours	
31	Auto Arm Time for Partition 1	9999	24 hours	
32	Auto Disarm Time for Partition 1	9999	24 hours	
33	Auto Arm Time for Partition 2	9999	24 hours	
34	Auto Disarm Time for Partition 2	9999	24 hours	
35	Night Mode begins time	9999	24 hours	[*] + [1] + [Master code] + [Add] + [HHMM]
36	Night Mode end time	9999	24 hours	HH = Hour ; MM = Minute
37	HAM On Time for Partition 1	9999	24 hours	
38	HAM Off Time for Partition 1	9999	24 hours	
39	HAM On Time for Partition 2	9999	24 hours	
40	HAM Off Time for Partition 2	9999	24 hours	
41	HAM Auto Off Timer	005	1 to 255 min	

## Section 5.9: HAM Output Setting (Home Automation)

### HAM Address Location:

Add	Description	Value	Add	Description	Value
51	HAM 1	000	53	HAM 3	000
52	HAM 2	000	54	HAM 4	000

### HAM Definition Value

Value	Description
000 - 015	<b>Follow Zone open ; Enable 24 hour without auto off feature</b> e.g. 000 (follow zone) 1, 000 (follow zone 2) etc. *Suitable for indoor lightning that need to be auto on all time and turn off manually. e.g. Office with low natural light, turn on light or air condition automatically when PIR detect movement in the morning and manually off after office hour.
016 - 031	<b>Follow Zone open ; Enable 24 hour with auto off feature (user programming address 41)</b> *Suitable for indoor lightning that need to be auto on all time and with energy saving. e.g. Store room light
032 - 047	<b>Follow Zone open ; Enable during night mode without auto off feature</b> *Suitable for outdoor lightning need to be auto on during night mode and turn off manually. e.g. Shop with strong natural light, turn on automatically when PIR detect movement during night time and manually off after business hour.
048 - 063	<b>Follow Zone open ; Enable during night mode with auto off feature (user programming address 41)</b> *Suitable for act as sensor light for indoor and outdoor. e.g. Car porch light, Living Hall light and etc.
064	<b>Follow Timer 1 (user programming address 37 &amp; 38)</b>
065	<b>Follow Timer 2 (user programming address 39 &amp; 40)</b>
066	<b>Follow Timer 1 and Timer 2 (user programming address 37 &amp; 40)</b>
067	<b>Follow Entry Exit time ; Enable 24 hour without auto off feature</b> e.g. Office with low natural light that can be turn on upon main door open and turn off automatically after system arm.
068	<b>Follow Entry Exit time ; Enable 24 hour with auto off feature</b> e.g. Staircase light for office that can be turn on automatically upon main door open for illumination and turn off automatically for energy saving. After office hour, upon system arm will turn on automatically for exit illumination and auto off after exit time expired.
069	<b>Follow Entry Exit time ; Enable during night mode without auto off feature</b> e.g. Living hall light with strong natural light that is only necessary during night mode, can turn on automatically during entry and stay on until user turn off manually. Upon system arm during night mode, will turn on until exit timer expired.
070	<b>Follow Entry Exit time ; Enable during night mode with auto off feature</b> e.g. Car porch light that turn on during entry and exit and turn off automatically.

Value	Description
071 - 086	<b>Follow Zone trigger</b> e.g. Terimeter sensor (silent mode zone) trigger warning light or buzzer.
087 - 102	<b>Follow Zone trigger ; Pulse signal</b> e.g. DVR channel switching (using IO port)
103	<b>Manual on/off only</b>
104	<b>*Activate when fully Arm ; cannot turn on/off manually</b>
105	<b>*Activate when trouble condition exist ; cannot turn on/off manually</b>
106	<b>*Activate when zones trigger, auto off some time after system disarm (refer to user programming address 4). Cannot turn off manually while zone still trigger.</b>
107	<b>*Activate when zones trigger, off after disarm. Cannot turn on/off manually</b>

### Information:

- Total 4 HAM outputs.
- Always program the HAM definition value to the select HAM address location.
- HAM definition value 000 = zone1, 015 =zone 16, 016 = zone 1, 018 = zone 3, and etc.

### Programming example:

[ \* ] + [ 2 ] + [ Installer code ] + [ Address location ] + [ Value ]

- **Program Follow zone open, Enable 24 hour w/o auto off feature for 'zone 3' at add '51'**  
[ \* ] + [ 2 ] + [ 7788 ] + [ 51 ] + [ 002 ]
- **Program Activate when fully Arm at address location '52'**  
[ \* ] + [ 2 ] + [ 7788 ] + [ 52 ] + [ 104 ]

## Section 5.9a: Call-in Voice Menu

1) Dial the telephone number connected to this system

2) Enter User Password

3) System will list out Main menu in voice. Select your desired Partition (If partition is enabling).

Key	Menu	Function
1	Disarm	Disarmed system and cancel alarm.
2	Away Arm	Arm system in Away mode.
3	Home Automation (PGM)	Activate Home Automation mode ∅ Press [1] to [4] # = Individual Output On/Off ∅ Press [5] # = All output On Press [6] # = All output Off Press [#] to exit this mode.
4	Bypass	Enter zone number you wish to bypass or un-bypass. Press [#] to exit this mode. eg: zone 11 = [*] + [1], zone 2 = [2] Value [*] = '10'
5	Memory Mode	Announce previous triggered zone. Press [#] to exit this mode.
6	Panic	Switch on Siren and Strobe light only.
#	Exit	End call-in and hang up.

### Information:

- The System answer a call from caller when it detects telephone line ringing and the number of rings reaches the number programmed in the system by your installer.
- The caller will be prompted for his/her User code to access main menu. After performing your desired function, press [#] to hang-up.
- The system will hang up the call when attempts to enter the correct User code exceeds your preset times.
- If the system does not receive any command key entry in the Main menu for periods longer than your preset seconds, it will hang up immediately.
- You may not enter Bypass mode if your system is armed. Disarm first and then enter Bypass mode.

## Section 5.9b: Call-Out Voice Menu

1) User pick up call

2) Enter User Password

3) System will voice prompt to indicate corresponding triggered zone.

Key	Menu	Function
1	Disarm	Disarmed system and cancel alarm.
2	Away Arm	Arm system in Away mode.
3	Home Automation (PGM)	Activate Home Automation mode ∅ Press [1] to [4] # = Individual Output On/Off ∅ Press [5] # = All output On Press [6] # = All output Off Press [#] to exit this mode.
4	Bypass	Enter zone number you wish to bypass or un-bypass. Press [#] to exit this mode. eg: zone 11 = [*] + [1], zone 2 = [2] Value [*] = '10'
5	Memory Mode	Announce previous triggered zone. Press [#] to exit this mode.
6	Panic	Switch on Siren and Strobe light only.
#	Exit	End call-out and hang up.

### Information:

- Call-Out function refers to Personal reporting format as part of the features available in your alarm security system. Please check with your installer if this feature is enabled.
- User pick up a call and enters Main menu, the system will not call the next in line telephone number. The system will only call the next number when user immediately ends the call after listening to system Arm/Disarm status or alarm event.
- If system call to the first programmed telephone number has not been picked up, the system will cancel the call and dial the next telephone number in line.
- The system will not perform Call-out function once the maximum number of group dial attempts programmed in the system is reached and no User/ receiving party have picked up the calls.
- If the system does not receive any command key entry in the main menu for periods longer than your preset seconds, it will hang up immediately.

Arm / Disarm	User Code or Master Code (without partition) User Code 1 (To Arm / Disarm Partition 1) User Code 2 (To Arm / Disarm Partition 1) Master Code 0 (To Arm / Disarm Both Partition)
Home Arming	H (Hold 3 sec to on both partition)
Away Arming	A (Hold 3 sec to on both partition)
Bypass	[*] + [4] + [Master code] + [zone to bypass] + [#]
Display previous triggered zone	[*] + [5] (press any key to exit)
Display Trouble	[*] + [0] (press any key to end)  1=AC Fail 2=Battery Low 3=CMS Fail 4=GSM Fail 7=System Time Fail
Add Password	[*] + [6] + [Master code] + [n] + [new p/w repeat 2 times]  Value [n] means: 0= Master code 1 to 8= User code 1 to 8
Delete Password	[*] + [6] + [Master code] + [n] + [#]
Personal Phone number	[*] + [7] + [Master code] + [1 or 2 or 3 or 4] + [Phone number] + [#]
Door Chime	[*] + [81] + [zones] + [#]
Walk Test	[*] + [82] + [zones] + [#]
Manual Testing CMS	[*] + [83]
Home Automation 1 to 4 (On/Off function)	[*] + [9] + [1 or 2 or 3 or 4] to On/Off the PGM
Home Automation (All on)	[*] + [95]
Home Automation (All off)	[*] + [96]
Back to Ready	[#]

Panel Default Setting at address location '99':  
[\*] + [2] + [Installer code] + [99] + [#]

Zone Characteristic Setting :

Add	Description	Zones
10	Entrance	1
11	Internal delay	2
12	Internal (home)	—
13	Instant (away)	3 - 7, 9 - 16
14	24 hours	8
16	Silent	—
18	Zone Respond	—

\*Zone respond = Sensitivity zone, adjust sensitivity level at add location 45 & 46

System Dialer Setting for Personal / CMS Report Format:

Add	Zone Led On	Description
31	1	Enable Personal Reporting
	2	Enable CMS Reporting
	4	Enable Fix Line

\* Enable Double ring answering (fax bypass)  
Add location '32'  
[\*] + [2] + [Installer code] + [32] + [3] + [#]

Personal Report Telephone Number:

Add	Tel No.	Maximum Digits
1	1st	16
2	2nd	16
3	3rd	16
4	4th	16

CMS Account and Phone Number:

Add	Tel No.	Default Value
70	CMS Account no.1	0000
71	CMS Account no.2	0000
72	CMS Phone no.1	nil
73	CMS Phone no.2	nil

General Control Panel Setting :

Add	Zone Led On	Description
33	1	Buzzer on during entry delay
	2	Buzzer on during exit delay
	3	Short beeping during delay
	5	Enable quick Arm using 'Home' or 'Away'
	6	Enable Keypad Panic button 'P'
	7	Enable RF remote control Arming

Timer Setting:

Add	Description	Default
40	Entry timer for partition 1	040
42	Exit timer for partition 1	040
44	Siren timer (minute)	005
45	Fast respond timer	008
46	Slow respond timer	015
60	Answer ring	008

## Section 7.1: Warranty Terms

The Seller warrants its products to be free from defects in materials and workmanship under normal use for a period of one year. Except as specifically stated herein, express or implied warranties whatsoever, statutory or otherwise, including without limitation, any implied warranty of merchantability and fitness for a particular purpose, are expressly excluded. Because Seller does not install or connect the products and because the products may be used in conjunction with products not manufactured by Seller. Seller cannot guarantee the performance of the security system. Seller obligation and liability under this warranty is expressly limited to repairing or replacing, at the Seller's option, any product not meeting the specifications. In no event shall the Seller be liable to the buyer or any other person for any loss or damages whether direct or indirect or consequential or incidental, including without limitation, any damages for lost profits stolen goods, or claims by any other party, caused by defective goods or otherwise arising from the improper, incorrect or otherwise faulty installation or use of the merchandise sold.

## Section 7.2: International Warranty

The warranty for international customers is the same as above warranty terms, with the exception that we shall not be responsible for any customs fees, taxes, or VAT that may be due.

## Section 7.3: Disclaimer of Warranty

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) and of all other obligations or liabilities on the part of us. We neither assume nor authorize any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

**WARNING:** We recommend that the entire system be completely tested on a regular basis. However, despite, frequent testing, and due to, but not limited to criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

### Out of Warranty Repairs

We will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to us must first obtain an authorization number. We will not accept any shipment whatsoever for which prior authorization has not been obtained. A product which determines to be repairable will be repaired and returned. A set fee which we have predetermined and which may be revised from time to time, will be charged for each unit repaired. Products which we determine not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be changed for each replacement unit.

## Section 7.4: Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to us must first obtain an authorization number. We will not accept any shipment whatsoever for which prior authorization has not been obtained.

### Conditions to Void Warranty

This warranty applies only to effects in parts and workmanship relating to normal use. It does not cover:

- Damage incurred in shipping or handling
- Damage caused by disaster such as fire, flood, wind, earthquake or lightning
- Damage due to causes beyond the control of us such as excessive voltage, mechanical shock or water damage
- Damage caused by unauthorized attachment, alterations, modifications, or foreign objects
- Damage caused by peripherals (unless such peripherals were supplied by us).
- Defects caused by failure to provide a suitable installation environment for the products
- Damage caused by use of the products for purposes other for which it was designed
- Damage from improper maintenance
- Damage arising out of any abuse, mishandling or improper application of the products.

We're liability for failure to repair the products under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall we be liable for any special, incidental, or consequential damages based upon breach of warranty or breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

## Section 7.5: Maintenance

### Specifications are subject to change without prior notice for technical improvement.

With normal use, the system requires minimum maintenance. The following point should be observed.

1. Do not wash the keypad with a wet cloth. Light dusting with a barely damp cloth should remove normal accumulations of dust.
2. It is recommended that the standby battery be replaced every year.
3. For other system devices such as passive infrared, microwave motion detectors, glass break detectors or smoke detectors, consult the respective manufacturer's literature for testing and maintenance.

## Section 7.6: Copy Right

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