



 **SERIES** **L8**
Alarm System

Installer Manual

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Panel Features

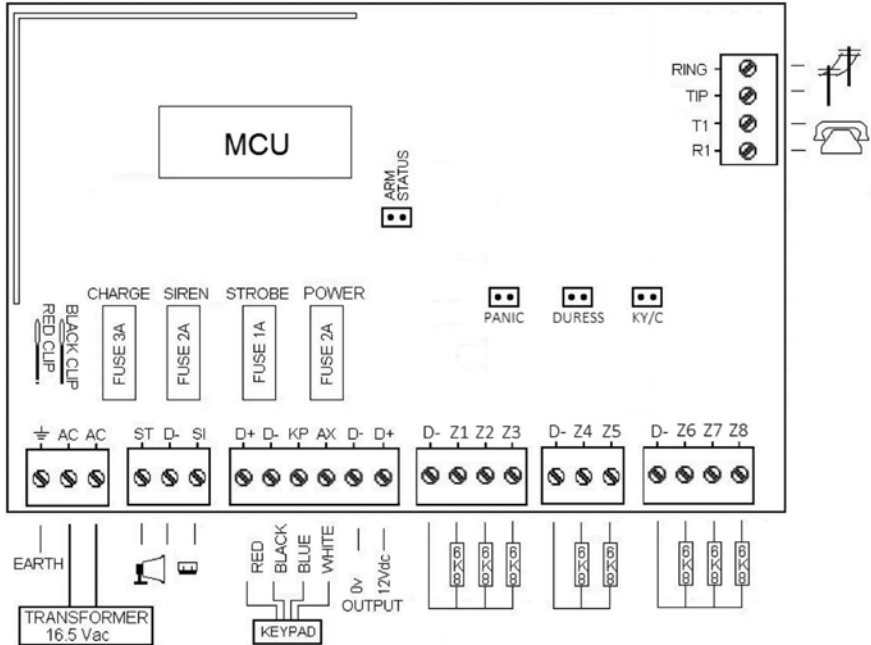
9 user codes including Master code, subdividing into priority and non priority users
Programmable 8 zones with end-of-line supervisory
Individual delay zone, hand-over zone, instant zone and 24-hour zone
5 levels of sensitivity for individual zones
Individual siren & strobe setting for all zones
Pulse count for all zones
Normally-open input for Arm/Disarm key-switch
Normally-open input for Panic alarm
Normally-open input for Duress
Built-in splitter

Programmable Away and Home arm monitoring for individual zone
Programmable Entry and Exit time
Individual zone Bypass function
Memory review for 100 events
Walk-test function
System Test function
Quick key entry for Away, Home, Zone Bypass, Review event memory mode
Individual Chime zone
Duress alarm
Home instant, A.C. fail delay, Force arming, Auto Bypass options
Programmable automatic daily system test
Programmable siren On/Off squawk
Dynamic battery test

Dual reporting for CMS and Personal format
CMS reporting in Contact ID format
Personal reporting with function menu selection in Beeping tone format
Call-in with function menu selection in Beeping tone format
Remote access to Away arming, Home arming and Disarm system
Remote access to Bypass zone, trigger Panic alarm, check System and Emergency Status
8 Personal reporting dialing numbers
2 CMS account numbers
2 CMS reporting dialing numbers for each CMS account numbers
Fax bypass

Anti-take over function
Activate and deactivate Installer code
Factory default for CMS & Personal report format
Assign time for automatic daily system test
Assign time for automatic Arm and Disarm system

Terminal Connections



Powering Up The Control Panel

- Keypad will produce 3 short beeps
- 24-hour zones will be temporary disabled. Arm the system once to re-enable the 24-hour zones.

Reset Installer Code

- Short **KY/C** pin for 3 seconds during power-up to default Installer code back to [1111]
- Keypad will beep 3 times and remove from shorting the pins immediately
- If address location '68' is set to value '013', then the Installer code cannot be reset.

Master, Installer & User Description

Master (User-1)

- Factory default [0000]
- Allow Arm Away, Arm Home, Disarm, Bypass zone and Review event memory
- Activate Panic and Duress alarms
- Enable Walk-test and Test modes
- Cancel system dialler using keypad when calling to Personal telephone number only
- Programming access limited to address locations:

Data selection	Address locations
Timers	'53', '54', '56', '57', '59', '60', '87', '88', '89', '90'
User codes	'70', '72-79'
Telephone numbers	'91-98'
Restrict Installer Code	'68'

Installer (User-2)

- Factory default [1111]
- Allows Review event memory
- Activate Panic alarms
- Enable Walk-test and Test modes
- Programming access to all address locations except address location '68'

Priority Users (User-3 to User-5)

- Allows Arm Away, Arm Home, Disarm, Bypass zone and Review event memory
- Activate Panic and Duress alarms
- Enable Walk-test and Test modes
- Cancel system dialler using keypad when calling to Personal telephone number only

Non priority Users (User-6 to User-9)

- Allows Arm Away, Arm Home, Disarm, Bypass zone and Review event memory
- Activate Panic and Duress alarms
- Enable Walk-test and Test modes


Maid Code (User-10)

- Maid Code is not allowed to Disarm the system if the system was armed by Master code
- Allows Arm Away, Arm Home, Disarm, Bypass zone and Review event memory
- Activate Panic and Duress alarms
- Enable Walk-test and Test modes

Programming The Control Panel

Enter Programming Mode


- 1) Press [**Installer Code**] + [**7**]

 The Line light blinks to indicate Programming mode.

- 2) Enter 2-digit address location [] []


- 3) Enter a data type

Data Type	First Key Entry	Final Key Entry
Option	Toggle individual options on/off using keys (1-8)	'*' to store and return to Program mode (Step 2)
	Turn on all options with key '9'	
	Turn off all options with key '0'	
Time or Enable/Disable function or Code	3 digits using keys (0-9)	N/A
Code or Account number	4 digits using keys (0-9)	N/A
Telephone number	16 digits or less using keys (0-9)	'*' to store and return to Program mode (Step 2)
Clear code, account number and telephone number	Key '#'	N/A
Return to Program mode (Step 2)	Key '*'	N/A






 The existing value will be displayed by the keypad lights

- 4) You may continue to enter a new address location (Step 2), or

- 5) Press [*] to exit Programming mode

 The Line light will turn off to indicate exit from Programming mode

Legend Description

-  Refers to locations that are not used
-  Refers to locations that are available to program
-  Refers to locations defaulted for general use
-  Refers to locations defaulted exclusively for CMS report format
-  Refers to locations defaulted exclusively for Personal report format

Panel default setting

Data type Option	Address location	CMS Default							Personal Default
		1	2	3	4	5	6	7	8
Default mode	50								

Information

1. Enter option '1' and '8' to default all address locations back to factory default.
2. Enter option '1' to default address locations '21-27', '48', '81', '82', '84', '85' which are associated with CMS report format only.
3. Enter option '8' to default address locations '11-17', '44', '91-98' which are associated with Personal report format only.

Programming Example

1. Default all programming options at address location '50'
 [Installer] + [7] + [5] [0] + [1] [8] + [*] + [*]
 program mode address option store exit

Master Code, Installer Code, User Codes, Maid Code

Data type: Code	Address location	Default Code
User-1 (Master)	70	0000
User-2 (Installer)	71	1111
User-3	72	
User-4	73	
User-5	74	
User-6	75	
User-7	76	
User-8	77	
User-9	78	
User-10 (Maid)	79	

Information

1. Always program a maximum of 4-digits.
2. Ensure all codes programmed are not similar to each other.
3. Ensure all codes programmed are not the duress code of another user code

Programming Example

1. Program Master code as '3838' at address location '70'
 [Installer] + [7] + [7] [0] + [3] [8] [3] [8] + [*]
 program mode address code exit
2. Delete User-10 code at address location '79'
 [Installer] + [7] + [7] [9] + [#] + [*]
 program mode address clear exit

Zone Characteristic Setting

Data type: Option	Address location	Delay 1	Siren 2	3	4	Strobe 5	Away 6	Home 7	24hrs 8
Zone 1	01	✓	✓			✓	✓	✓	
Zone 2	02		✓			✓	✓	✓	
Zone 3	03		✓			✓	✓	✓	
Zone 4	04		✓			✓	✓	✓	
Zone 5	05		✓			✓	✓	✓	
Zone 6	06		✓			✓	✓	✓	
Zone 7	07		✓			✓	✓	✓	
Zone 8	08		✓			✓	✓	✓	

Data type: Option	Address location	Sensitivity					Chime	Hand over	Pulse
		1 (32ms)	2 (64ms)	3 (96ms)	4 (128ms)	5 (160ms)	6	7	8
Zone 1	31		✓				✓		
Zone 2	32		✓				✓		
Zone 3	33		✓				✓		
Zone 4	34		✓				✓		
Zone 5	35		✓				✓		
Zone 6	36		✓				✓		
Zone 7	37		✓				✓		
Zone 8	38		✓				✓		

Technical Data

- Delay** - Assign zone to activate all alarm outputs at the end of Entry time when triggered during arm mode. If Delay option is off, the zone becomes Instant zone which will activate all alarm outputs immediately when triggered.
- Handover** - Assign zone to delay from activating all alarm outputs until the end of Entry time if a Delay zone is triggered first. A Handover zone will behave as an Instant zone if triggered first.
- 24-hour** - Assign zone to activate all alarm outputs immediately when triggered regardless of system Arm or Disarm.
- Pulse** - Assign zone to activate all alarm outputs when triggered to a programmed number of times within a programmed time period during Arm mode. If two or more zones are programmed as pulse zones, each zone that triggers within time window will be counted as a total number to activate alarm.
- Chime** - Enable keypad buzzer to sound a low frequency tone when a zone is triggered in Disarm state. Chime is switched off when system is armed in Away or Home mode.
- Away** - Assign zone to be monitored during Away arm mode.
- Home** - Assign zone to be monitored during Home arm mode.
- Siren** - Assign siren output to activate when individual zone is triggered during arm mode.
- Strobe** - Assign strobe output to activate when individual zone is triggered during arm mode.
- Zone sensitivity** - Program level of individual zone sensitivity with option '1' the most sensitive and option '5' the least sensitive.

Information

- Program only one type per zone with these selections; Delay, Handover, 24-hour

Programming Example

- Program Zone 3 as Away monitored zone only at address location '03'

[Installer] + [7] + [0] [3] + [7] + [*] + [*]
 program mode address clear store exit

Non-Zone Characteristic Setting for Personal Report Format

Data type: Option	Address location		Siren	Dialler		Strobe			
		1	2	3	4	5	6	7	8
Open / Close	11								
Reserved	12								
Duress input	13								
Panic input	14		○	○		○			
Test input	15								
Low battery	16								
AC power fail	17								

Non-Zone Characteristic Setting for CMS Report Format

Data type: Option	Address location		Siren	Dialler		Strobe			
		1	2	3	4	5	6	7	8
Open / Close	21			●					
Reserved	22								
Duress input	23			●					
Panic input	24		●	●		●			
Test input	25			●					
Low battery	26			●					
AC power fail	27			●					

Technical Data

- Open/Close** - Select output option to send a report to a central monitoring station when system is armed and disarmed by any User.
- Duress input** - Select output option to activate for Duress alarm. Entering Duress code via keypad will Disarm the system and force the system to report of an emergency to CMS.
- Panic input** - Select output option to activate when User activates Panic alarm function via keypad.
- Test input** - Select output option to activate when User enters Test mode via keypad.
- Low battery** - Select output option to activate when back-up battery is determined as low for more than 2 minutes. System will send restore signal once battery strength has recovered for 30 seconds.
- AC power fail** - Select output option to activate when A.C. power supply is not present. AC power reporting becomes active only after the first arming of system.

Programming Example

- Enable Personal reporting when AC power fail at address location '17'

[Installer] + [7] + [1] [7] + [3] + [*] + [*]
 program mode address option store exit

- Disable CMS reporting when Battery is low at address location '26'

[Installer] + [7] + [2] [6] + [3] + [*] + [*]
 program mode address clear store exit

General Control Panel Setting

Data type: Option	Address location	Keypad light	Quick Away	Quick Home	Force Arm Siren continue /squawk	AC fail delay	Quick Review	Force Arm Alarm On/Off	Quick Bypass
		1	2	3	4	5	6	7	8
	45	✓	✓	✓		✓	✓		✓

Data type: Option	Address location	Entry beep	Exit beep	No Force Arm		Home squawk	Away squawk	Home instant	No Arm battery low
		1	2	3	4	5	6	7	8
	46	✓	✓						

Technical Data

- Keypad light** - Select option to always switch on keypad lights. If option is un-selected, keypad zone and arm lights will switch off after 1 minute. Press any key to view keypad lights again.
- Quick Away** - Select option to enter Arm Away mode without User code entry
- Quick Home** - Select option to enter Arm Home mode without User code entry
- Quick Bypass** - Select option to enter Bypass zone mode without User code entry
- Quick Review** - Select option to enter Review event memory mode without User code entry
- AC fail delay** - Select option to ON, then system will delay 30 minutes before registering A.C. power fail. Select option to OFF, then system will register A.C. power fail after 1 minute.
- No Force Arm** - Select option to ON, then system will not Arm via keypad if Instant zones found opened except Delay zone. Select option to OFF, force arm is enabled and any Instant zone found not ready upon arming, will be automatically bypassed and reported to CMS. The system will resume monitoring the zone once it is closed again for the duration of that armed period.
- Force Arm Alarm On/Off** - Select option to ON, then siren and dialler activate at the expiry of Exit time after force arming the system. Select option to OFF, then siren and dialler will not activate if the system is force armed.
- Force Arm siren continue/squawk** - Select option to ON, then siren sound continuously after system is force armed. Select option to OFF, then siren will only output a squawk after system is force armed. Siren will not output anything if "Force Arm Alarm On/Off" option (address location '45', option '7') is selected to OFF.
- Entry beep** - Select option to allow keypad buzzer to beep during the duration of Entry time.
- Exit beep** - Select option to allow keypad buzzer to beep during the duration of Exit time.
- Home squawk** - Select option to enable siren to squawk twice upon Home arming and one squawk when disarmed.
- Away squawk** - Select option to enable siren to squawk twice upon Away arming and one squawk when disarmed.
- Home instant** - Select option to switch all assigned Home zones as Instant zones even if previously programmed as Delay zone.
- No Arm when battery low** - Select option to disallow system from arming via keypad if backup battery is determined as low.

Timer Setting

Data type: Time setting	Address location	3-Digit Time Value	Default Value	Units
Siren squawk time	51	000 - 100	050	msec
Non zone sensitivity	52	001,002,003,004,005,006,007,008	002	level
Entry time	53	000 - 255	045	second
Exit time	54	000 - 255	090	second
Siren time	55	000 - 255	005	minute
System time (hour)	56	000 - 023	000	hour
System time (minute)	57	000 - 059	000	minute
Auto daily test (hour)	59	000 - 023	003	hour
Auto daily test (minute)	60	000 - 059	000	minute
Auto Arm (hour)	87	000 - 023	255	hour
Auto Arm (minute)	88	000 - 059	255	minute
Auto Disarm (hour)	89	000 - 023	255	hour
Auto Disarm (minute)	90	000 - 059	255	minute

Technical Data

1. **Siren squawk time** - Program length of squawk time.
2. **Non zone sensitivity** - Program level of non zone sensitivity with value '001' the most sensitive and value '008' the least sensitive.
3. **Entry time** - Program time duration to Disarm system after a Delay zone is violated.
4. **Exit time** - Program time duration to exit premise after system armed.
5. **Siren time** - Program duration of Siren output during alarm.
6. **System time** - Program current time into system.
7. **Auto daily Test** - Program time for system to automatically send daily test report.
8. **Auto Arm** – Program time to automatically Arm the system on daily basis.
9. **Auto Disarm** – Program time to automatically Disarm the system on daily basis.

Information

1. Always program a 3-digit value into each address locations.
2. Program Hour value in 24-hour format.
3. Program values in the allowed time range only.
4. Program invalid values that are out of range will cause the above functions in the table to fail.

Programming Example

1. Program Entry time as 60 seconds at address location '53'
 $[\text{Installer}] + [7] + [5] [3] + [0] [6] [0] + [*]$
program mode address value exit
2. Program group non zone sensitivity to level 6 at address location '52'
 $[\text{Installer}] + [7] + [5] [2] + [0] [0] [6] + [*]$
program mode address value exit

System Dialler Setting for Personal Report Format

Data type: Option	Address location	Activate dialler						Emergency tones check	Extra functions menu
		1	2	3	4	5	6	7	8
Dialler option	44								

System Dialler Setting for CMS Report Format

Data type: Option	Address location	Activate dialler 1 st CMS	Pulse dial	Auto daily test	CMS call progress beep	Activate dialler 2 nd CMS		Restore report	Bypass report
		1	2	3	4	5	6	7	8
Dialler option	48			•				•	•

Technical Data

- Activate dialler** - Select option to enable system dialler to report events to CMS or Personal number. If this option is not selected, all other programming settings involving system dialler will not function.
- Auto daily test** - Select option to enable system dialler to automatically send daily test report events to CMS or Personal number. It will only send test report whenever the system time (hour, minute) equals the programmed Auto-Test time.
- CMS call progress beep** - Select option to monitor progress of system dialler when establishing communication with a central monitoring station. Keypad will beep once it receives Handshake tones and beep thrice after receiving the final Kiss-off tone.
- Restore report** - Select option to enable system dialler to send restore report to CMS after a zone is closed after triggered during Arm mode.
- Bypass report** - Select option to enable system dialler to send each zone bypass report to CMS if there are zones bypassed after arming the system.
- Extra functions menu** - Select option to enable extra functions such as Bypass (key 4), Panic (key 6) and Emergency tones check (key 7) for Call-in and Call-out menu.
- Emergency tones check** - Select option enable key 7 function (Option for 'Extra function menu' must be enabled as well) for Call-in and Call-out menu. Different number of tones beeped to represent various emergency events.
- Pulse dial** - Select option to enable pulse dialling.

Information

- When CMS reporting is in progress, keypad LINE light turns on to indicate busy state.
- When Personal reporting is in progress, keypad LINE light blinks to indicate busy state.
- When Call-in is in progress, keypad LINE light turns on to indicate busy state.
- Installer code can be used to terminate system dialler from reporting to a central monitoring station provided that the system is not armed.
- Master and Priority Users can terminate system dialler by entering their respective codes to keypad when it is calling to a Personal telephone number.
- User may not perform system functions such as Arm, Disarm, Program, etc., using keypad when system dialler is in progress. Zones will continue to be monitored during system Arm and will report any alarm occurred after the current Call-out or Call-in is over.

Programming Example

- Enable Personal reporting at address location '44'
 [Installer] + [7] + [4] [4] + [1] + [*] + [*]
 program mode address option store exit
- Disable bypass report for CMS reporting at address location '48'
 [Installer] + [7] + [4] [8] + [8] + [*] + [*]
 program mode address clear store exit

CMS Account Number

Data type: Account Number	Address location	4-Digit Number
1st CMS Account	80	
2nd CMS Account	83	

Telephone Number

Data type: Telephone Number	Address location	Maximum 16-Digit Number
1st CMS telephone number for 1st CMS Account	81	
2nd CMS telephone number for 1st CMS Account	82	
1st CMS telephone number for 2nd CMS Account	84	
2nd CMS telephone number for 2nd CMS Account	85	
1st Personal telephone number	91	
2nd Personal telephone number	92	
3rd Personal telephone number	93	
4th Personal telephone number	94	
5th Personal telephone number	95	
6th Personal telephone number	96	
7th Personal telephone number	97	
8th Personal telephone number	98	

Technical Data

- Account number** - Program special identity code assigned to the owner by a CMS company.
- CMS telephone number** - Program telephone numbers belonging to a CMS company.
- Personal telephone number** - Program telephone numbers belonging to owners of this alarm security system.

Information

- All telephone numbers must be filled.
- All telephone numbers must not exceed 16 digits.
- Access to the main menu will be limited to priority Users only. User-6 to User-10 (non priority users) codes will be denied access and considered as illegal code. Therefore, assign all Personal telephone numbers to User-1 to User-4 only.
- The system will call the 1st CMS telephone number and 2nd CMS telephone number alternately. Each call is considered a dial attempt. If the location for the CMS telephone number is empty, this call attempt is not counted. Call attempt counter will increase for calls to the next programmed CMS telephone number.
- The system will call Personal telephone numbers from 1 to 8 sequentially. Any empty location for Personal telephone number will be skipped and call attempt is not counted. Call attempt counter will increase for calls to the next programmed Personal telephone number.
- Account number is defaulted to '0000'.
- Enter [#] [1] key to program '*' to telephone number. It is indicated by zone 1, 7 & 8 lights on keypad.
- Enter [#] [2] key to program '#' to telephone number. It is indicated by zone 2, 7 & 8 lights on keypad.
- Enter [#] [3] key to program a pause in the telephone number and indicated by zone 3, 7 & 8 light. A pause in the telephone number sequence, will force the system to delay for a short period before proceeding to dial all programmed numbers.

Programming Example

- Program telephone number '38391188' at address location '82'
 [Installer] + [7] + [8] [2] + [3] [8] [3] [9] [1] [1] [8] [8] + [*] + [*]
program mode address number store exit
- Delete telephone number at address location '93'
 [Installer] + [7] + [9] [3] + [#] [#] + [*]
program mode address clear exit
- Program a pause in between key '9' and telephone number '5322661' at address location '93'
 [Installer] + [7] + [9] [3] + [9] + [#] [3] + [5] [3] [2] [2] [6] [6] [1] + [*] + [*]
program mode address key pause number store exit

Miscellaneous System Setting

Data type: Enable/Disable and Counter	Address	Value	Default Value	Units
Panel reset	58	188		-
Group CMS dial attempt	61	000 - 010	008	-
Group Personal dial attempt	62	000 - 010	004	-
Number of rings to answer	63	001 - 015	015	-
Zone pulse count	64	000 - 010	002	-
Zone pulse time window	65	000 - 090	090	second
Anti-take over (ON/OFF)	67	013,014	014	-
No installer (ON/OFF)	68	013,014	014	-

Technical Data

- Panel reset** - Program value '188' to reset control panel's processor.
- Group CMS dial attempt** - Program total number of dial attempts for both CMS telephone numbers. The system will not perform Call-out once the dial attempts programmed here is reached.
- Group Personal dial attempt** - Program total number of dial attempts for all 8 Personal telephone numbers. The system will not perform Call-out once the dial attempts programmed here is reached.
- Number of rings to answer** - Program number of rings detected first before the system answers the incoming call. Maximum number of rings to detect is 15 times.
- Disable Call-in function** - Program value '000' into address location '63'.
- Fax bypass** - Program value '099' into address location '63' to bypass fax machine if telephone line is shared. Call in once and hang up. The control panel will pick up on the next call.
- Zone pulse count** - Program the number of triggers to the zone before the system acknowledge it to be a valid violation and set off alarm output.
- Zone pulse time window** - Program the time frame in between number of triggers to the zone before acknowledging a valid violation.
- Call attempt before Fail-to-Communicate** - Program the number of failed call attempts for system dialler to establish communication with a central monitoring station or a personal telephone number before activating siren and strobe light outputs. Program value '000' to cancel Fail-to-Communicate status.
- Anti-take over** - Program value '013' to enable anti-take over function. Shorting into 'KY-C' pins on control panel will not reset an existing installer code. Program value '014' to disable this function.
- No installer** - Program value '013' to enable this function. Installer code would not be able to perform system operations. Only Master code is allowed to program this address location.

Information

- Performing system functions such as Arm, Disarm, Program, etc. is restricted once the Call-in function is in progress. Keypad LINE light turns on to indicate a call-in.
- Always program a 3-digit value into each address locations.
- Program values in the allowed range only.

Programming Example

- Program rings to answer as 9 times at address location '63'
 [Installer] + [7] + [6] [3] + [0] [0] [9] + [*]
 program mode address value exit
- Enable Anti-take over at address location '67'
 [Installer] + [7] + [6] [7] + [0] [1] [3] + [*]
 program mode address value exit
- Reset control panel at address location '58'
 [Installer] + [7] + [5] [8] + [1] [8] [8]
 program mode address value

Simplified Programming

Programming:

Step 1 : Installer Code [1 1 1 1]
 Step 2 : Programming mode [7]
 Step 3 : 2-digit address [? ?]
 Step 4 : Value [?]
 Step 5 : Exit [*]

Default Panel		
Address	Default Value	1 & 8= Default all
50		

User Code			
User	Address	Default Value	Max. = 4-digit Press ' #' to clear previous code
User-1 (Master)	70	0000	
User-2 (Installer)	71	1111	
User-3	72		
User-4	73		
User-5	74		
User-6	75		
User-7	76		
User-8	77		
User-9	78		
User-10 (Maid)	79		

CMS Account		
Address	Default Value	Max. = 4-digit Press ' #' to clear previous number
80	0000	
83	0000	

Telephone Number			
Telephone	Address	Default Value	Max. = 16-digit Press '#' '1' key for * Press '#' '2' key for # Press '#' '3' key for pause Press '#' '#' to clear previous number Press '*' to store number In this case, '#' '1', '#' '2' and '#' '3' are considered as 1 digit.
CMS Tel. 1 for 1st CMS	81		
CMS Tel. 2 for 1st CMS	82		
CMS Tel. 1 for 2nd CMS	84		
CMS Tel. 2 for 2nd CMS	85		
Personal Tel. 1	91		
Personal Tel. 2	92		
Personal Tel. 3	93		
Personal Tel. 4	94		
Personal Tel. 5	95		
Personal Tel. 6	96		
Personal Tel. 7	97		
Personal Tel. 8	98		

Personal Dialler		
Address	Default Value	1 = Dialler 7 = Emergency tones check 8 = Extra functions menu Press '*' to store option
44		

CMS Dialler		
Address	Default Value	1 = Dialler for 1st CMS 2 = Pulse dial 3 = Auto daily Test 4 = CMS progress beep 5 = Dialler for 2nd CMS 7 = Restore report 8 = Bypass report Press '*' to store option
48	3,7,8	

Personal Non-Zone Setting			
	Address	Default Value	
Panic input	14	2,3,5	2 = Siren 3 = Dialler 5 = Strobe Press ' * ' to store option
Low battery	16		
AC Fail	17		

CMS Non-Zone Setting			
	Address	Default Value	
Open/Close	21	3	2 = Siren 3 = Dialler 5 = Strobe Press ' * ' to store option
Duress input	23	3	
Panic input	24	2,3,5	
Test input	25	3	
Low battery	26	3	
AC Fail	27	3	

Zone Setting 1			
	Address	Default Value	
Zone 1	01	1,2,5,6,7	1 = Delay 2 = Siren 5 = Strobe 6 = Away 7 = Home 8 = 24-hour Press ' * ' to store option
Zone 2	02	2,5,6,7	
Zone 3	03	2,5,6,7	
Zone 4	04	2,5,6,7	
Zone 5	05	2,5,6,7	
Zone 6	06	2,5,6,7	
Zone 7	07	2,5,6,7	
Zone 8	08	2,5,6,7	

Zone Setting 2			
	Address	Default Value	
Zone 1	31	2,6	1-5 = sensitivity level 6 = Chime 7 = Hand-over 8 = Pulse Press ' * ' to store option
Zone 2	32	2,6	
Zone 3	33	2,6	
Zone 4	34	2,6	
Zone 5	35	2,6	
Zone 6	36	2,6	
Zone 7	37	2,6	
Zone 8	38	2,6	

Remark:

Sensitivity = (1) max. sensitivity, (5) min. sensitivity

General Setting 1			
Address	Default Value		
45	1,2,3,5,6,8	1 = Keypad light 2 = Quick Away 3 = Quick Home 4 = Force Arm siren Continue/Squawk 5 = AC fail delay 6 = Quick Review 7 = Force Arm Alarm On/Off 8 = Quick Bypass Press ' * ' to store option	

Remark:

- Force Arm siren Continue (4) = ON (Continue alert)
- Force Arm siren Squawk (4) = OFF (Squawk alert)
- AC fail delay (5) = ON (After 30 minutes then to register fail)
- AC fail delay (5) = OFF (After 1 minute then to register fail)
- Force Arm Alarm (7) = ON (Zone not ready after exit time, siren and dialler activate)
- Force Arm Alarm (7) = OFF (Zone not ready after exit time, siren and dialler do not activate)

General Setting 2		
Address	Default Value	
46	1,2	1 = Entry beep 2 = Exit beep 3 = No Force Arm 5 = Home squawk 6 = Away squawk 7 = Home instant 8 = No Arm when battery low Press ' * ' to store option

Remark:

No Force Arm (3) = ON (No arming if instant zones are not ready, except delay zone)

No Force Arm (3) = OFF (Force Arm)

Timer Setting			
	Address	Time	Min - Max
Siren squawk time	51	050	000 - 100
Non zone sensitivity	52	002	001,002,003,004,005,006,007,008
Entry time	53	045	000 - 255
Exit time	54	090	000 - 255
Siren time	55	005	000 - 255
System time (hour)	56	000	000 - 023
System time (minute)	57	000	000 - 059
Auto daily test (hour)	59	003	000 - 023
Auto daily test (minute)	60	000	000 - 059
Auto Arm (hour)	87	255	000 - 023
Auto Arm (minute)	88	255	000 - 059
Auto Disarm (hour)	89	255	000 - 023
Auto Disarm (minute)	90	255	000 - 059

Remark:

Non zone sensitivity (52) = (001) max. sensitivity, (008) min. sensitivity

Miscellaneous Setting			
	Address	Default Value	Min - Max
Panel reset	58	188	
Group CMS dial attempt	61	008	000 - 010
Group Personal dial attempt	62	004	000 - 010
Number of rings to answer	63	015	001 - 015
Zone pulse count	64	002	000 - 010
Zone pulse time window	65	090	000 - 090
Anti-take over	67	014	

Remark:

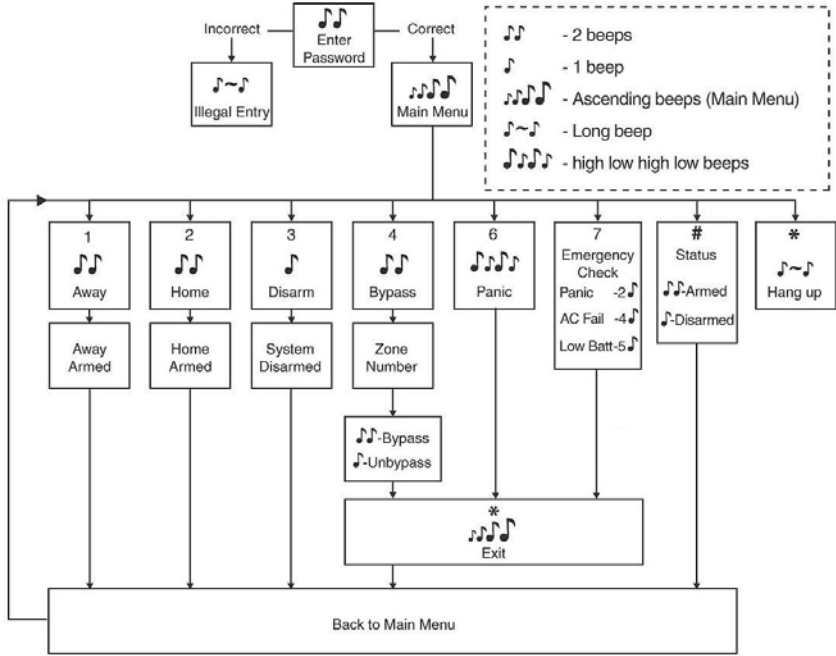
Number of rings to answer (63) = 000 (Disable Call-in)

Number of rings to answer (63) = 099 (Fax bypass)

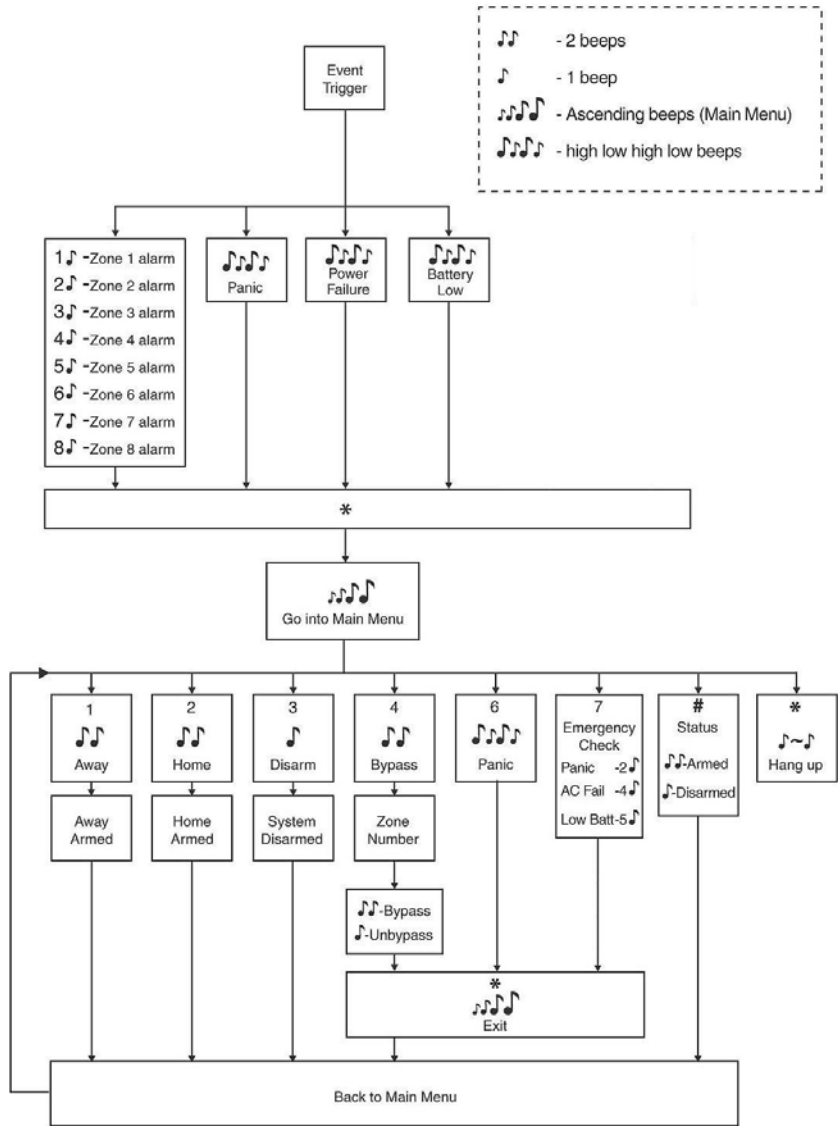
Anti-take over (67) = 013 (ON)

Anti-take over (67) = 014 (OFF)

Call-In Block Diagram



Call-Out Block Diagram



- ♪♪ - 2 beeps
- ♪ - 1 beep
- ♪♪♪ - Ascending beeps (Main Menu)
- ♪♪♪ - high low high low beeps

Activate dialler
 Program:
 [installer]+[7]+[4][4]+[1]+[+][+]

Quick Operation Reference

Default Installer Code	[1111]
Default Master Code	[0000]
Away Arm	[User Code] [9] or [User Code] [AWAY]
Home Arm	[User Code] [8] or [User Code] [HOME]
Quick Away Arm	[#] [AWAY] or [#] [9]
Quick Home Arm	[#] [HOME] or [#] [8]
Disarm	[User Code] [0]
Bypass	[User Code] [6] [Zone Number] [*]
Quick Bypass	[#] [6] [Zone Number] [*]
Review	[User Code] [4]
Quick Review	[#] [4]
Walk-test	[Installer Code] [5]
System Test	[Installer Code] [3]
Panic alarm	[#] [PANIC] or [#] [1]
Duress alarm	[User Code with Last Digit + 1] [0]

Reset Installer Code

- Short **KY/C** pin for 3 seconds during power-up to default Installer code back to [1111]
- Keypad will beep 3 times and remove from shorting the pins immediately
- If address location '68' is set to value '013' then the Installer code cannot be reset.

Enter Program Mode

Enter Program mode	[Installer Code] [7] [Address] [Value] [*] [*]
	program mode store exit

Enable Personal Report and Personal Dialling Setting (refer pg.11 & 12 for info)

Turn ON Personal Dialler	[Installer Code] [7] [44] [1] [*] [*]
	(LED1 ON = Dialler ON, LED1 OFF = Dialler OFF)

Program personal telephone number 1	[Installer Code] [7] [91] [Tel. Number] [*] [*]
-------------------------------------	-------------------------------------------------------------

Program personal telephone number 2	[Installer Code] [7] [92] [Tel. Number] [*] [*]
-------------------------------------	-------------------------------------------------------------

*Address 91 to 98 is for personal telephone number 1 to 8 respectively, Max. Tel. Number is 16 digits

Disable Personal Report and Clear Personal Dialling Setting (refer pg.11 & 12 for info)

Turn OFF Personal Dialler	[Installer Code] [7] [44] [1] [*] [*]
	(LED1 ON = Dialler ON, LED1 OFF = Dialler OFF)

Delete personal telephone number 1	[Installer Code] [7] [91] [#] [#]
------------------------------------	---------------------------------------------

Delete personal telephone number 2	[Installer Code] [7] [92] [#] [#]
------------------------------------	---------------------------------------------

*Address 91 to 98 is for personal telephone number 1 to 8 respectively.

Enable CMS Report and CMS Dialing Setting (refer pg.11 & 12 for info)

Turn ON 1st CMS Dialler	[Installer Code] [7] [48] [1] [*] [*] (LED1 ON = Dialler ON, LED1 OFF = Dialler OFF)
Program 1st CMS account number	[Installer Code] [7] [80] [ACC. Number] [*] [*]
Program 1st CMS telephone number 1	[Installer Code] [7] [81] [Tel Number] [*] [*]
Program 1st CMS telephone number 2	[Installer Code] [7] [82] [Tel Number] [*] [*] <i>*ACC. Number is 4 digits, Max. Tel. Number is 16 digits</i>
Turn ON 2nd CMS Dialler	[Installer Code] [7] [48] [5] [*] [*] (LED5 ON = Dialler ON, LED5 OFF = Dialler OFF)
Program 2nd CMS account number	[Installer Code] [7] [83] [ACC. Number] [*] [*]
Program 2nd CMS telephone number 1	[Installer Code] [7] [84] [Tel Number] [*] [*]
Program 2nd CMS telephone number 2	[Installer Code] [7] [85] [Tel Number] [*] [*] <i>*ACC. Number is 4 digits, Max. Tel. Number is 16 digits</i>

Disable CMS and Clear CMS setting (refer pg.11 & 12 for info)

Turn OFF 1st CMS Dialler	[Installer Code] [7] [48] [1] [*] [*] (LED1 ON = Dialler ON, LED1 OFF = Dialler OFF)
Clear 1st CMS account number	[Installer Code] [7] [80] [#] (Clearing of CMS account number will reset the CMS account number to 0000)
Delete 1st CMS telephone number 1	[Installer Code] [7] [81] [#] [#]
Delete 1st CMS telephone number 2	[Installer Code] [7] [82] [#] [#]
Turn OFF 2nd CMS Dialler	[Installer Code] [7] [48] [5] [*] [*] (LED5 ON = Dialler ON, LED5 OFF = Dialler OFF)
Clear 2nd CMS account number	[Installer Code] [7] [83] [#] (Clearing of CMS account number will reset the CMS account number to 0000)
Delete 2nd CMS telephone number 1	[Installer Code] [7] [84] [#] [#]
Delete 2nd CMS telephone number 2	[Installer Code] [7] [85] [#] [#]

Change Installer, Master & User Code (refer pg.4 & 6 for info)

Change Master Code (User1)	[Installer Code] [7] [70] [4 Digits Code] [*]
Change Installer Code (User2)	[Installer Code] [7] [71] [4 Digits Code] [*]
Change User3 Code	[Installer Code] [7] [72] [4 Digits Code] [*]
Change User4 Code	[Installer Code] [7] [73] [4 Digits Code] [*] <i>*Address 70 to 79 is for User1 to User10 respectively</i>

Delete User Code (refer pg.4 & 6 for info)

Delete User3 Code	[Installer Code] [7] [72] [#]
Delete User4 Code	[Installer Code] [7] [73] [#] <i>*Address 72 to 79 is for User3 to User10 respectively</i>

Zone Setting (refer pg.7 for info)

Program Zone1 as Delay or Instant zone [Installer Code] [7] [01] [1] [*]

(LED1 ON = Zone1 is delay zone, LED1 OFF = Zone1 is instant zone)

**Address 01 to 05 is address of delay/instant setting for Zone1 to Zone5 respectively*

Program Zone1 as 24Hours zone [Installer Code] [7] [01] [8] [*]

(LED8 ON = 24hours zone enabled, LED8 OFF = 24hours zone disabled)

**Address 01 to 05 is address of 24 hours zone setting for Zone1 to Zone5 respectively*

Program Zone1 as Handover zone [Installer Code] [7] [31] [7] [*]

(LED7 ON = Handover zone enabled, LED7 OFF = Handover zone disabled)

**Address 31 to 35 is address of Handover zone setting for Zone1 to Zone5 respectively*

Exit & Entry Delay Time Setting (refer pg.10 for info)

Program Entry time [Installer Code] [7] [53] [3 Digits Value] [*]

Program Exit time [Installer Code] [7] [54] [3 Digits Value] [*]

Fax Bypass Setting (refer pg.13 for info)

Fax Bypass setting [Installer Code] [7] [63] [099] [*] [*]

**Call in once and hang up, then the system will pickup the call on 2nd call*

Number of Rings Setting (refer pg.13 for info)

Program number of rings to answer [Installer Code] [7] [63] [Value] [*] [*]

(Applicable value is from 001 to 015)

Quick Function Setting (refer pg.9 for info)

Turn ON/OFF Quick Away Arm [Installer Code] [7] [45] [2] [*] [*]

(LED2 ON = Quick Away enabled, LED2 OFF = Quick Away Disabled)

Turn ON/OFF Quick Home Arm [Installer Code] [7] [45] [3] [*] [*]

(LED3 ON = Quick Home enabled, LED3 OFF = Quick Home Disabled)

Turn ON/OFF Quick Review [Installer Code] [7] [45] [6] [*] [*]

(LED6 ON = Quick Review enabled, LED6 OFF = Quick Review Disabled)

Turn ON/OFF Quick Bypass [Installer Code] [7] [45] [8] [*] [*]

(LED8 ON = Quick Bypass enabled, LED8 OFF = Quick Bypass Disabled)

Arm & Disarm Siren Squawk Setting (refer pg.9 for info)

Turn ON/OFF Away Arm Squawk [Installer Code] [7] [46] [6] [*] [*]

(LED6 ON = Away Squawk enabled, LED6 OFF = Away Squawk Disabled)

Turn ON/OFF Home Arm Squawk [Installer Code] [7] [46] [5] [*] [*]

(LED5 ON = Home Squawk enabled, LED5 OFF = Home Squawk Disabled)

**After activating Siren Squawk, Arm produce 2 beeps, Disarm produce 1 beep*

Program System Time (refer pg.10 for info)

Program System Time (hour) [Installer Code] [7] [56] [3 digits Value] [*] [*]
Program System Time (minute) [Installer Code] [7] [57] [3 digits Value] [*] [*]

**24-hour format*

Program Auto Away Arm & Auto Disarm (refer pg.10 for info)

Program Auto Away Arm Time (hour) [Installer Code] [7] [87] [3 digits Value] [*] [*]
Program Auto Away Arm Time (minute) [Installer Code] [7] [88] [3 digits Value] [*] [*]
Program Auto Disarm Time (hour) [Installer Code] [7] [89] [3 digits Value] [*] [*]
Program Auto Disarm Time (minute) [Installer Code] [7] [90] [3 digits Value] [*] [*]

**24-hour format, program 255 to disable Auto Away Arm & Auto Disarm*

Panel Default Setting (refer pg.6 for info)

Default CMS only [Installer Code] [7] [50] [1] [*]
Default Personal only [Installer Code] [7] [50] [8] [*]
Default all address to factory default [Installer Code] [7] [50] [1] [8] [*]

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