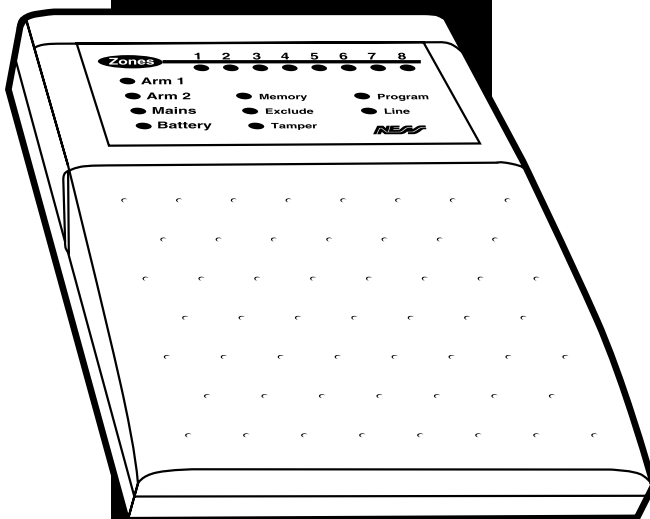


# L-8

CONTROL PANEL



USER MANUAL



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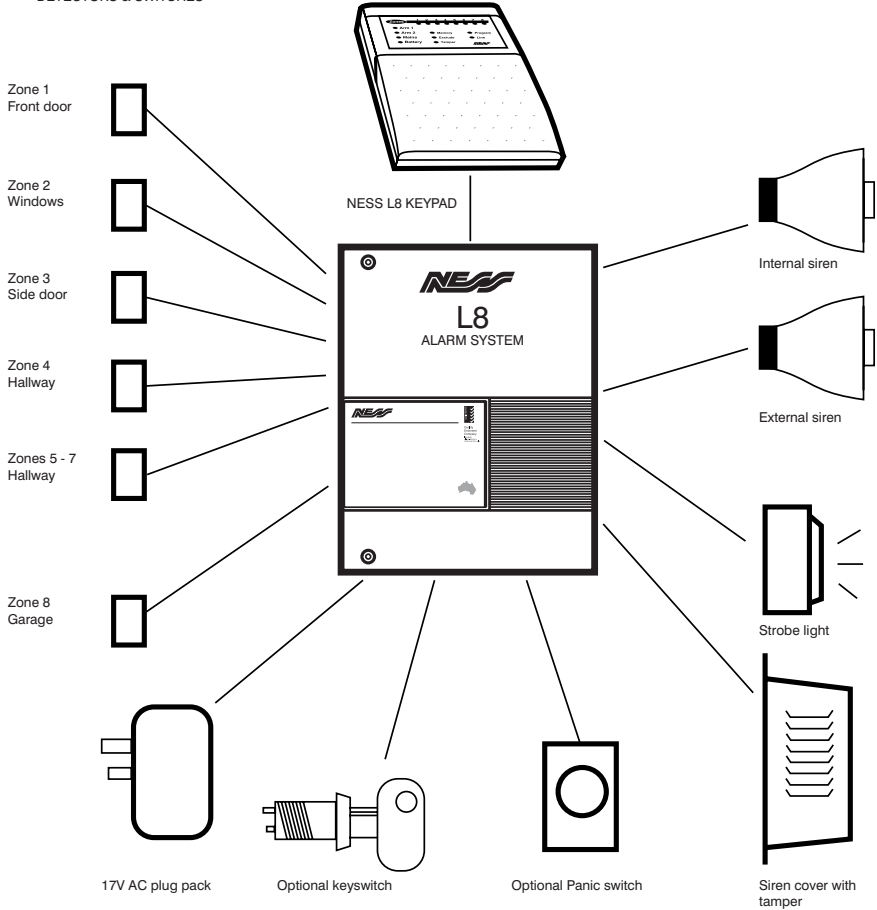
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JULY 1997 V2.2

To the best of our knowledge, the information contained in this manual is correct at the time of going to print. Ness Security Products reserve the right to make changes to the features and specifications at any time and without notice in the course of product development.

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DETECTORS & SWITCHES



( EXAMPLE OF A TYPICAL SYSTEM )

## INTRODUCTION

Thank you for purchasing a Ness L8 control panel proudly designed and built in Australia. The L-8 control panel is very powerful but easy to use, utilising the latest in microprocessor technology. Please take time to read this manual so that you understand the benefits of the control panel.

## TERMINOLOGY

The micro computer based 8 zone control panel forms the heart of your security system and connects to all other equipment. Each zone of the panel will be connected to one or more detection devices to protect an area such as the front door, hallway, windows, etc.

The panel is said to be armed when it is set to detect an intruder. At other times it is disarmed.

Normally a zone is considered secured. Activation of a detection device will cause the zone to be unsecured and may cause an alarm.

Detectors such as fire detectors and panic buttons must be able to generate an alarm at all times regardless of the panel setting. A zone with this assignment is called a 24 hour zone.

Some detection devices may only be required to generate an alarm or warning only when the panel is disarmed. A zone with this assignment is called a day zone.

Before leaving the premises you must arm the panel to enable it to detect intruders and generate an alarm. After arming, the panel will ignore detectors for the exit delay time to enable you to depart without triggering an alarm.

When you enter the premises the panel will ignore selected zones for the entry delay time and will not alarm unless you fail to disarm the panel during this allowed time.

Monitor mode allows selected zones to be armed while leaving others disarmed if you wish to protect a number of zones while you are at home.

If you wish to split your alarm system into two areas with access limited to each area by code numbers then area operation is used.

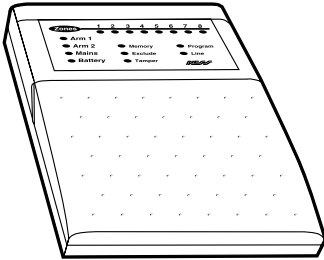
The control panel housing and the metal covers over external sirens are protected by tamper switches to detect someone attempting to disable the security system. Activation of these switches will cause an instant tamper alarm.

If a detector becomes faulty, you can exclude the associated zone so that it is totally ignored and cannot generate an alarm. Including the zone will enable it to generate an alarm again.

The control panel is fitted with a rechargeable stand-by battery to ensure your security system continues to operate if the mains power is interrupted. This battery is checked every hour and when ever you arm/disarm the panel.

When ever an alarm occurs, it may be silenced by entering an access code, otherwise it will reset at the end of alarm reset time. All alarms are stored in memory and may be viewed at any time by entering memory mode.

# CONTROLS AND INDICATIONS



## KEYPAD

The L-8 keypad consists of 18 buttons, 17 indicators and 1 internal beeper.

## BUTTONS

The 10 numeric buttons are used for entering access codes and in program mode to enter option selections and values.

The Enter button is used at the end of every button sequence to enter the button data.



## AUDIBLE INDICATIONS

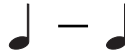
Every time a button is pressed on the keypad, it responds with a brief beep in acknowledgment.



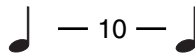
The beeper is also used to indicate whether the entry was valid or invalid. For example, whenever enter is pressed, all the buttons pressed before it are checked to see whether they are valid. If they are valid, the response will be 3 short beeps.



If they are invalid (or incorrect) the response will be 1 long beep and they will be ignored.



At other times, the beeper will sound warnings such as 10 beeps for a low battery or mains fail.



The beeper may have been programmed to sound continuously if an alarm has occurred.



## VISUAL INDICATIONS

Each of the 17 indicator lights have three possible states. These are:-

LIGHT	<input type="radio"/> OFF	<input checked="" type="radio"/> ON	<input checked="" type="radio"/> FLASH
ZONES 1 - 8	<input type="radio"/> Zone Sealed	<input checked="" type="radio"/> Zone Unsealed	<input checked="" type="radio"/> Zone Alarm
ARM 1	<input type="radio"/> Day / Disarm	<input checked="" type="radio"/> Panel is Armed	<input checked="" type="radio"/> Monitor Mode
ARM 2	<input type="radio"/> Day / Disarm	<input checked="" type="radio"/> Panel is Armed	<input checked="" type="radio"/> Monitor Mode
MAINS		<input checked="" type="radio"/> Normal	<input checked="" type="radio"/> Mains Fail
BATTERY		<input checked="" type="radio"/> Normal	<input checked="" type="radio"/> Battery Low
MEMORY	<input type="radio"/> Normal	<input checked="" type="radio"/> Memory Mode Selected	<input checked="" type="radio"/> Alarm in Memory
EXCLUDE	<input type="radio"/> Normal	<input checked="" type="radio"/> Exclude Mode Selected	<input checked="" type="radio"/> Zones Excluded
TAMPER	<input type="radio"/> Normal		<input checked="" type="radio"/> Tamper Alarm
PROGRAM	<input type="radio"/> Normal	<input checked="" type="radio"/> Client Mode Selected	<input checked="" type="radio"/> Install Program Mode selected
LINE	<input type="radio"/> Normal	<input checked="" type="radio"/> Panic Alarm has been activated. Only displayed in Memory.	

## OPERATION

This section describes the operation of a typical control panel installation. Keep in mind that your installation may vary depending on the selected options and equipment. The operating instructions which follow will endeavour to cover the most common options. If you had any doubts speak to your installer.

All control panel operations are controlled by the L8 keypad except if an optional key switch or radio control is installed.

### OPERATING RULES

Generally, the panel will be in the disarmed. Armed or monitor modes which provide different levels of security for your premises. Three other temporary modes, program, memory and exclude, allow you to perform various operations. The panel will automatically exit from these temporary modes if you do not press any buttons on the keypad within a 4 minute period.

If you make a mistake while entering any codes, press the enter button and start again.

When you are required to enter your access code, you are given three opportunities to enter it correctly. After the third invalid attempt the alarm is activated (requiring the correct code to silence the alarm). This prevents anyone trying to guess your code by entering random numbers.

### AREA OPERATION

The L8 control panel allows for the 8 zones to be split into two groups known as area 1 and area 2. The two areas can be assigned access codes so that a user may have access either of the areas or both areas. This allows for people to have access to one part of your premises while the other part remains armed.

This is known as area operation. Arming and disarming is carried out as normal, you may have keypads installed in each area and set up by your installer so that the armed light indicates the armed state for that area only.

**NOTE:** All zones which are active in the armed mode always exist in one or both areas, eg. even if you do not require your 8 zones to be split, all 8 zones will be programmed to operate in area 1.



## ARMING THE CONTROL PANEL

The control panel must be armed prior to vacating the premises in order to detect intruders. Ensure that the panel is not in Program, Memory or Exclude modes.




NOTE: If the panel is already in alarm, you must first silence the alarm before you can arm.

1. Normally the panel is armed by pressing Arm then Enter.




2. Your installer may have programmed the panel to require the entry of a code to arm the panel.

These are two methods of arming the panel:

1. CHECK that all windows and doors are securely locked.


2. PRESS  Arm  ..Enter.. 

or

 Arm code  ..Enter.. 

3. The arm light should be ON.

4. LEAVE the premises within your exit delay time.

5. At the end of the exit delay time, three beeps will sound 

If something is wrong when Arming the control panel, the normal 3 beeps will be replaced by other warnings.

- Mains power is turned off
- Control Panel battery is low
- A long beep indicates an invalid entry or an alarm is outstanding and needs to be reset by entering your access code first.

Siren Warning: At the end of the exit time, all zones should be secured. If any are unsecured, the siren will sound for 2 seconds as a warning to indicate that those zones have been automatically excluded. For maximum security, you should return, disarm, check the premises and then arm again. Continual warnings could mean that a detector is faulty and may have to be manually excluded.

If the auto-exclude option is disabled, the siren will sound for the duration of reset time if a zone is unsecured at the end of exit time.


## DISARMING THE CONTROL PANEL

Upon entering the protected premises through a delay zone, the keypad responds with regular beeps as a reminder to disarm. You then have your programmed entry delay time to disarm the panel by, Entering one of your access codes. If the panel is not disarmed by the end of the entry delay time, an alarm will occur. You may enter your code to silence the alarm.

If one of your codes is, say, 7676 then to disarm press...

7 6 7 6 enter

If you make a mistake in entering your code, then you must press enter and start again. Three incorrect entries will cause an alarm.

1. ENTER the protected premises via a delay zone.
2. LISTEN for the beeps coming from the keypad.
3. PRESS . . . code  
4. The armed light should now be extinguished..

The entry beeps can be disabled as a function of the installation options.

If the external strobe light (if fitted) is flashing before you disarm then this means that an alarm occurred since you last armed the panel. Flashing indicators on the keypad also indicate the location of the alarm before you disarm. Once you have disarmed, you may view the alarm memory to check the location of the alarm. (See alarm memory page 16)

## MONITOR MODE

Monitor mode allows you to arm selected zones while others are ignored. Typically, perimeter zones (doors and windows) can be monitored while you are at home.

To select Monitor mode,

A) press <Monitor> <Enter>  
or  
<Monitor> <code> <Enter>

The control panel will respond with 3 beeps and the armed indicators will flash to indicate that you are in Monitor mode.

Monitor mode cannot be selected while in Program, Memory or Exclude modes.

To exit from Monitor mode: press, <code> <Enter> to disarm.

Note:

If an alarm occurs, while in Monitor mode, entering <code> <Enter> will silence the alarm. This will also change the mode of operations of your panel, so remember to enter monitor mode again if necessary.

1. To ENTER monitor mode, press...

Monitor

..Enter..



2. If an ALARM occurs, the respective zone light will flash

3. To SILENCE the alarm  
and to exit monitor, press...

code

..Enter..



## EMERGENCY FUNCTIONS-PANIC

For personal protection, the keypad contains an instant panic feature. Panic can be used to...

- Scare away intruders inside or outside your premises.
- Summon help from friends or neighbours.
- Test the operation of the siren.

The panic function may have been programmed to be either.

1 / Audible - activates siren or buzzers  
**OR**

2 / Silent - activate a warning in another part of your building.

To activate the panic alarm, press  
<Panic> <Enter>

To silence the siren, press  
<code> <Enter>

Panic cannot be used while the panel is in Program, Memory or Exclude mode.

NOTE : Your installer may have installed a separate panic button. To activate the panic alarm simply press the button.

1. PANIC!

2. Press...

Panic

..Enter..



3. The siren will SOUND

4. Press...

code

..Enter..



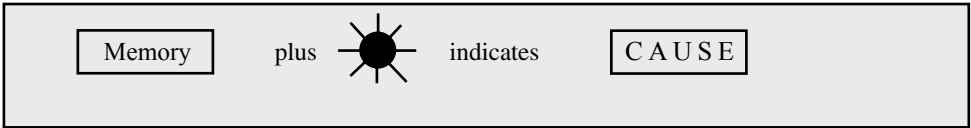
The siren will STOP

## ALARMS

Alarms may be caused by one of the following:

- A zone has been activated while armed
- A tamper has been activated
- A Panic button has been activated

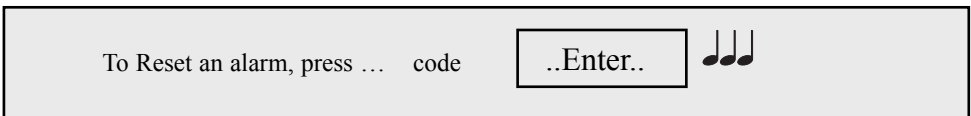
All of these may cause your sirens and strobe to operate. Various visual indications relevant to the alarm will be retained in the memory. If this occurs, disarm your Control Panel which will reset the alarm. The cause of the alarm can be identified by entering the Alarm Memory Mode as described on page 16.



## RESETTING AN ALARM

Your panel can be reset and the alarm silenced by entering your CODE followed by the ENTER button.

If you arrive at your premises and find the strobe light flashing (if installed), reset the panel as above. To check the cause of the alarm, you can view the alarms in memory by entering memory mode.



## EXCLUDING ZONES

If a detector becomes faulty and cannot be secured when arming the panel, then its zone may be excluded, ie. ignored by the system so that it does not generate false alarms.

To enter Exclude mode press,

<Exclude> <Enter>

OR

<Exclude> <code> <Enter>

All the lights will be turned off and then the Zone Excluded light will show a steady light. You may now exclude zones.

To exclude, say, zones 4 and 8, press the buttons...

<Exclude> <Enter>

4 <Enter> 8 <Enter>

Zone lights 4 and 8 will turn on.

<Enter> to Exit Exclude Mode

NOTE: Excluding zones can only be done when the panel is disarmed.

1. To exclude zones...

2. Press...

Exclude

..Enter..



or

Exclude

code

..Enter..



the Exclude light should be On

3. ENTER the zone/s to be EXCLUDED Zone No.

..Enter..



4. To EXIT press ENTER

..Enter..



If you make a mistake, enter the zone number again to remove it from your selection.

Zones which you exclude will be indicated by the relevant zone light showing a steady light in the exclude mode.

NOTE: Your Control Panel may be programmed to automatically exclude faulty zones whenever you Arm. The Exclude light will flash as a warning or memory of the auto-exclusion. If Auto - Exclude is selected the outside Siren will sound for 2 seconds indicating a zone has Auto Excluded.

## INCLUDING ZONES

Zones which have been excluded, may be included while you are in the Disarm modes.

All Excluded Zones are automatically included when the panel is Disarmed. Thus if a detector is still faulty it must be Excluded again.

The exclude light will flash to warn you of excluded zones.

To view Exclude Zones for Inclusion press,

<Exclude> <Enter>

**OR**

<Exclude> <code> <Enter>

To include, say, zones 4 and 8, press

<Exclude> <Enter>

<4> <Enter> <8> <Enter>

Zone lights 4 and 8 will turn off.

<Enter> to Exit Exclude Mode

1. To include zones, press ...

Exclude

..Enter..



or

Exclude

code

..Enter..



the Exclude light should be On

2. ENTER the zone/s to be EXCLUDED

Zone No.

..Enter..



3. To EXIT press ENTER

..Enter..



## ALARM MEMORY

The L8 Control Panel contains an comprehensive Alarm Memory. The L8 will remember Arms, low battery, mains fail and alarms. The memory is constantly upgraded and the last 8 events are always available for viewing.

To view the memory display, enter...

<Memory> <Enter>

OR

<Memory> <code> <Enter>

The memory light will illuminate and then the last 8 alarm events will be flashed out at 1 second intervals. A short beep indicates the next event is displayed.

NOTE: The most recent of the last 8 events will be displayed first.

This Memory display can only be selected while the panel is in the Disarmed state.

NOTE: Entry to Program Mode will clear the events from Alarm Memory.

1. To view memory , press...

Memory

..Enter..



2. OBSERVE lights .

The last 8 events will be flashed out at 1 second intervals separated by a beep

The lights are used as follows:

LIGHT	ALARM
Zone light	Zone alarm
Arm light	Panel armed
Tamper light	Tamper alarm (siren cover, panel etc.)
Line light	Panic alarm
Battery light	Low battery
Mains light	Mains failure

You can access the Alarm Memory as often as required while the Panel remains Disarmed .



## PROGRAMMING

The L8 Control Panel allows you to reprogram all 15 available access codes, the 2 entry times and your exit time.

You may need to reprogram an access code because you no longer wish a user to have access to your system or because you want to give somebody temporary access to your system, or you may have simply forgotten your code.

You may also need to reprogram the entry or exit times of your entry/exit zones if you find them too long or too short.

For all other programming changes, talk to your installer.

### TO ENTER PROGRAM MODE

Access code number 1 is called your master code. Program mode can only be accessed using your master code. To enter program mode, press...

<Program> <master code> <Enter>

The program light will turn on and all other lights will turn off to indicate successful access to program mode.

NOTE: Access to Program mode can only be done from the disarmed state.

Important: The control panel will automatically exit the Program mode if no keys are pressed within a four minute period.

To enter Program mode, press...

Program

Master Code

..Enter..

### TO EXIT PROGRAM MODE

Press, <Program> <Enter>

The program light will turn off and normal operating lights (mains and battery will turn on).

NOTE: The control panel will automatically exit the program mode if no buttons are pressed within a 4 minute period.

Important: The control panel will automatically exit the Program mode if no keys are pressed within a four minute period.

To exit Program mode, press...

Program

..Enter..

## HOW TO PROGRAM ACCESS CODES

To program any of the 15 access codes, you must know a few rules first.

REMEMBER :-

- All codes can be 3, 4, 5 or 6 digits long
- Codes cannot begin with a 0 (see below)
- A code can be cancelled by reprogramming it again with a code of 000.
- Codes must be unique and cannot be a subset of each other.  
Eg. If a Code-2 is 1234, code-3 234 (not allowed) code-6 1334 (allowed).
- Code-1 is the master code and **MUST** be programmed. All other codes are optional

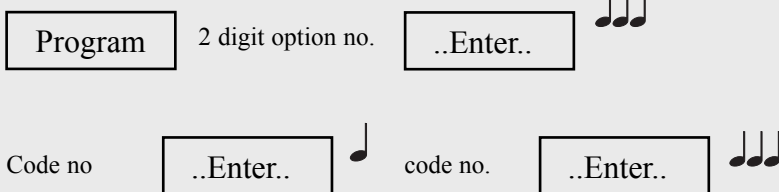
When you enter your new code number the L-8 requires that you input the code twice to confirm a correct code.

Each user access code has a 2 digit program option number to ensure the panel can identify which code number you want to program.

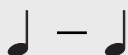
The options for each code are:-

Code	Option	Code	Option
1	11	9	19
2	12	10	20
3	13	11	21
4	14	12	22
5	15	13	23
6	16	14	24
7	17	15	25
8	18		

To Program Codes, press...



A long beep indicates an error has been made-start again.



Example to program code 1 to be 2468.  
Prog 11 enter 2468 Enter 2468 Enter

## HOW TO PROGRAM ENTRY AND EXIT TIMES

Your L-8 Control Panel will have zone(s) which are called Entry/Exit zones. These are the zone(s) which you normally enter and leave your premises by. To allow you to do so without causing a false alarm, there is an Exit Time which the Control Panel gives you to depart your premises after you Arm the Panel. There are 2 separate entry times which the Control Panel gives you to Disarm the Panel when you have entered the premises before an alarm occurs.

Your installer may have programmed different zones with a long entry time and a short entry time zone. (A long and short entry time is useful if you enter by a garage or a front door).

TO PROGRAM YOU MUST KNOW A FEW RULES:  
Exit time can be programmed from 1 to 99 seconds in 1 second increments.

Entry 1 time can be programmed from 1 to 99 seconds in 1 second increments.

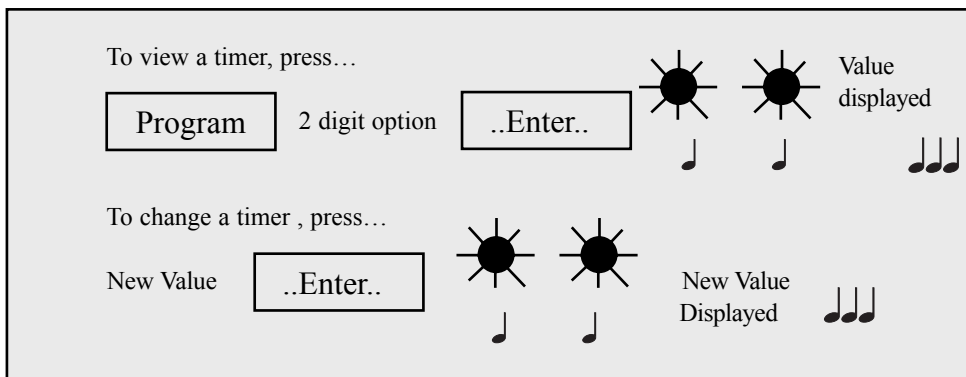
Entry 2 time can be programmed from 10 to 990 seconds in 10 second increments, Each one of the timers has a 2 digit program option number.

The current timer value is displayed by the L-8 when you select a timer option. The value is displayed by flashing out the value on the numeric zone lights 1 to 8, 9= battery and 0= mains at 1 second intervals.

When you change the timer value the new value is displayed as above. The option numbers are as follows;

Entry 1 timer = Option 26
Entry 2 timer = Option 27
Exit time = Option 28

Programming always follows this sequence;



## TO PROGRAM ENTRY 1 TIMER (OPTION 26)

Timer 1 can be set from 1 to 99 seconds.

Default time equals 20 seconds.

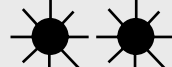
To view entry 1 timer value, press

**Program**

OPTION 26

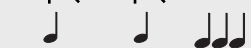
**..Enter..**

value displayed



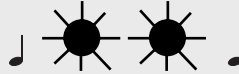
To change entry 1 timer, press...

New Value displayed.



New value

**..Enter..**



## TO PROGRAM ENTRY 2 TIMER (OPTION 27)

Timer 2 can be set from 10 to 990 seconds in 10 second increments.

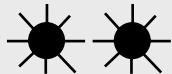
To view entry 2 timer value, press

**Program**

OPTION 27

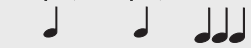
**..Enter..**

value displayed



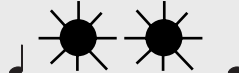
To change entry 2 timer, press...

New Value displayed.



New value

**..Enter..**



## TO PROGRAM EXIT TIMER (OPTION 28)

Default time equals 60 seconds.

Timer can be set from 1 to 99 seconds.

Default equals 60 seconds.

Exit timer is common to all armed zones.

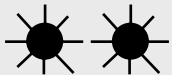
To view exit timer value, press

**Program**

OPTION 28

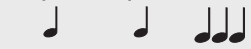
**..Enter..**

value displayed



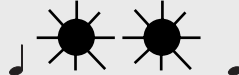
To change exit timer, press...

New Value displayed.



New value

**..Enter..**



NOTE: Your installer may have programmed your exit timer to be programmable from 10 to 990 seconds in 10 second intervals if you require a particularly long exit time. (Eg. time to arm, move your car from the garage and close the door.) Simply program your exit time as normal. It is recommended that for maximum security you should keep your exit and entry times as short as possible.

## PROGRAMMING SUMMARY

OPTION	CODE	DEFAULT	PROGRAMMED
Access code 1 (MASTER)	P11E code E code E		
Access code 2	P12E code E code E		
Access code 3	P13E code E code E		
Access code 4	P14E code E code E		
Access code 5	P15E code E code E		
Access code 6	P16E code E code E		
Access code 7	P17E code E code E		
Access code 8	P18E code E code E		
Access code 9	P19E code E code E		
Access code 10	P20E code E code E		
Access code 11	P21E code E code E		
Access code 12	P22E code E code E		
Access code 13	P23E code E code E		
Access code 14	P24E code E code E		
Access code 15	P25E code E code E		
Entry 1 time	P26E time E	20 seconds	(1-99)
Entry 2 time	P27E time E	60 seconds	(10-990)
Exit time	P28E time E	60 seconds	(1-99)

## TROUBLESHOOTING

<b>SYMPTOM</b>	<b>POSSIBLE CAUSE</b>	<b>REMEDY</b>
Zone light on or long beeps on arming	Zone detection device (eg. reed switch, movement detector) unsecured.	Close door or window. Find cause of movement
10 beeps upon Arming. Mains light flashing- Battery light flashing.	Mains power off. Battery low.	Check plugpack is plugged in and power point on or Call installation company.
10 beeps at any time (mains/battery light flashing)	(as above)	(as above)
1 long beep during keypad entry.	Invalid keypad entry	Press enter button & re-enter
2 second siren at end of exit time.	Zone unsecured on expiry of exit time	Re-enter premises, disarm system, check zone isolate memory to determine zone at fault.
External strobe light flashing.	Alarm occurrence since last arming of panel.	Check alarm memory to determine zone alarmed.
Siren sounding when disarmed.	Tamper, panic or 24 hour zone, or day zone activated.	Reset alarm by entering system code. Check panic buttons (if Installed)-or call installation company.
Armed/ monitor light flashing	Monitor mode entered by mistake.	Exit monitor mode.
Zone excluded light flashing	A zone has been excluded.	Check zone excluded memory. Arm panel with all zones secured.
Tamper light flashing	Tamper unsecured	Call installation company
Alarm memory light flashing.	Alarm in memory.	Check alarm memory to see cause of alarm.
Cannot access program mode.	-Panel armed -Not using master code.	-Disarm panel first before entering code. -To enter program mode press Prog-Master code-Enter (see page 17)

# INSTALLATION RECORD

Supplied by:
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Phone number:	Phone number:
---------------	---------------

Installed by:	Date:
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Optional equipment installed:

Serviced by	Date	Reason

## OPERATION SUMMARY

To arm Arm <optional code> .. Enter ..

To disarm or Reset Alarm <code> .. Enter ..

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To monitor zones Monitor <optional code> .. Enter ..

To exit monitor mode <code> .. Enter ..

---

To exclude zones .. Exclude .. <optional code> .. Enter ..

then <zone> .. Enter .. <zone> .. Enter .. etc.

To exit exclude mode .. Enter ..

---

To include zones .. Exclude .. <optional code> .. Enter ..

then <zone> .. Enter .. <zone> .. Enter .. etc.

To exit include mode .. Enter ..

---

Panic alarm Panic .. Enter ..

To Reset Alarm <code> .. Enter ..

To view memory Memory <optional code> .. Enter ..

---

The last 8 events will be displayed at 1 second intervals.