

Elite Version **5**
16 Zone Control Communicator

Arrowhead
Alarm Products Ltd

Installation & Programming Guide

Proudly Designed and Manufactured in New Zealand

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Designed & Manufactured in New Zealand to Meet NZS:4301/93

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INSTALLATION NOTES

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INTRODUCTION

This Arrowhead Elite Version V5 alarm control panel has been designed to provide the most requested features for both the installer & the end-user. These features include ease of installation, ease of programming and user friendly operation all in a package which is reliable, functional and attractive.

Utilising many years of experience in the security industry and implementing valuable feedback, we are proud to provide you with a new generation of alarm controller. The Elite V5 is a New Zealand designed and built product which brings you the quality and features which you deserve at an affordable price. In addition to the the advanced design, only the highest quality components have been used in the production of this Elite panel to ensure the highest degree of reliability.

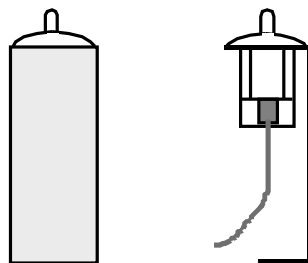
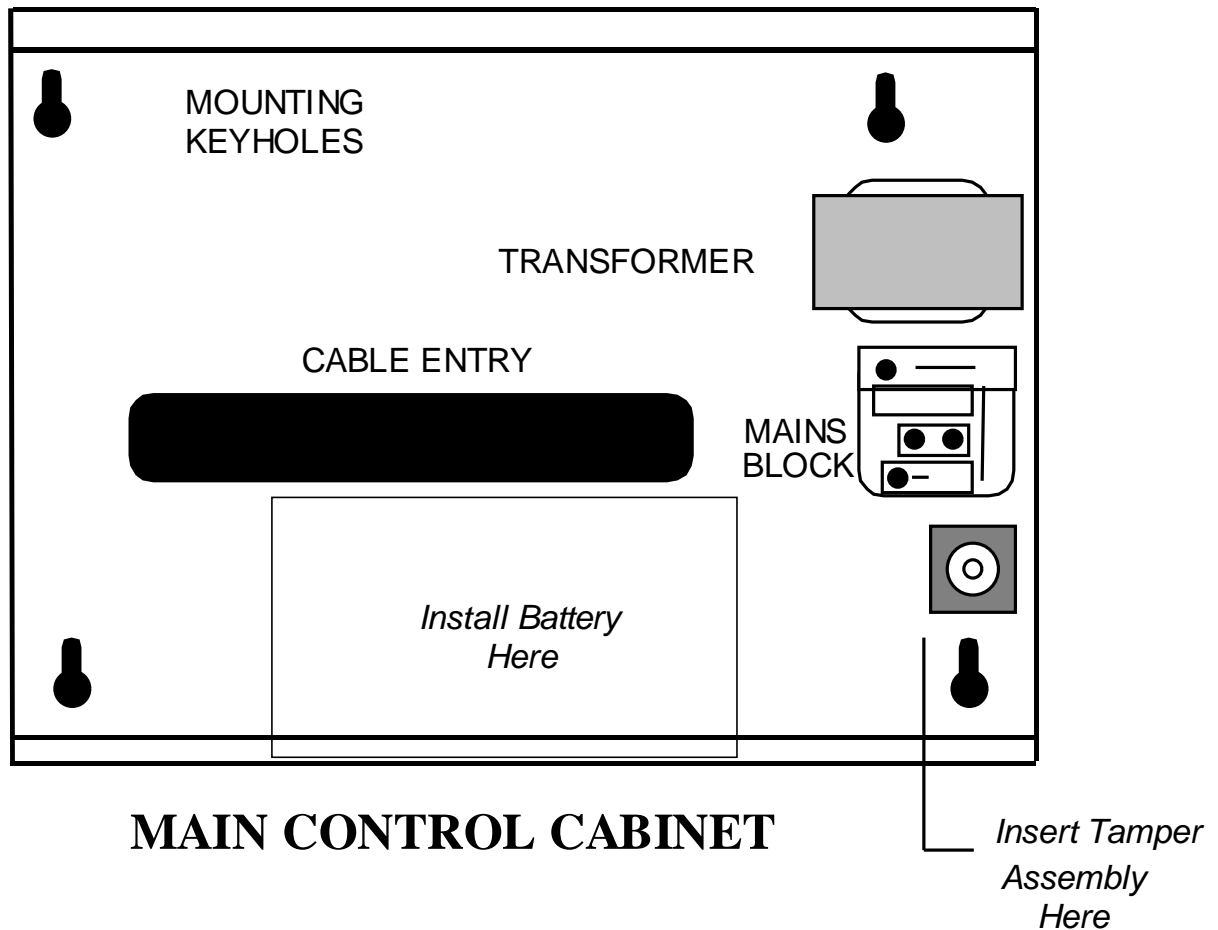
This manual will guide you through the installation and programming of your Elite alarm panel. For additional information regarding the operation instructions and options, please refer to the enclosed "Elite User's Guide".

PACKAGE CONTENTS

This Arrowhead Elite package should contain the following items;

- 1 x Elite controller PCB
- 1 x Elite new generation backlit keypad
- 1 x Elite keypad zone list
- 1 x Elite Users Guide
- 1 x Elite cabinet & lid
- 1 x 17 volt 1.4a Telepermitted mains transformer
- 1 x Cabinet hardware accessory pack including,
 - 1 x Elite installation & programming guide
 - 1 x Spare 1.5a fuse
 - 1 x Cabinet tamper switch
 - 1 x Cabinet tamper bracket
 - 1 x Tamper switch wire set
 - 1 x Battery lead set
 - 2 x Cabinet lid screws
 - 10 x 2k2 (red, red, red) end of line resistors
 - 10 x 4k7 (yellow, purple, red) end of line resistors
 - 10 x 8k2 (grey, red, red) end of line resistors

If any of these items are missing from this package, please contact the Arrowhead branch where you placed your order.



TAMPER ASSEMBLY

The Elite version 5 has 10 separate programmable monitored analogue inputs,

- 8 x Programmable, multi-state detection inputs
- 1 x Programmable, multi-state keyswitch input
- 1 x Programmable tamper circuit

*Each input must be terminated with the appropriate value or combination of end-of-line resistors, even if the input is unused, **unless the zone is defined as a radio zone.***

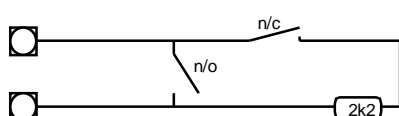
ZONE INPUTS - Each of the 8 zone inputs can be assigned one of the following configuration options;

- Type 1 Single zone with no tamper (8 zones) - 8NT
- Type 2 Single zone with individual tampers (8 zones high or low) - 8T
- Type 3 Double zones with one tamper per input (16 zones) - 16T

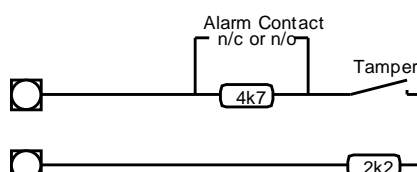
The following table shows end-of-line resistor configurations.

Zone Type	Low Zone Resistor	Hi Zone Resistor	Tamper End-of-line
8NT (No Tampers)	2k2	-	-
8T - Low (with Tampers)	4k7	-	2k2
8T - High (with Tampers)	-	8k2	2k2
16T (with 8 Tampers)	4k7	8k2	2k2

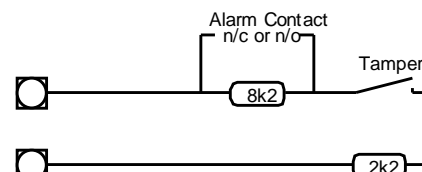
Type 8NT - 8 Zones, no tamper



Type 8T Low - 8 Zones with tamper

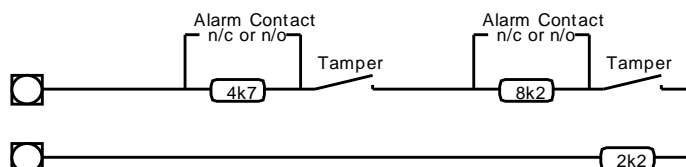


Type 8T High - 8 Zones with tamper

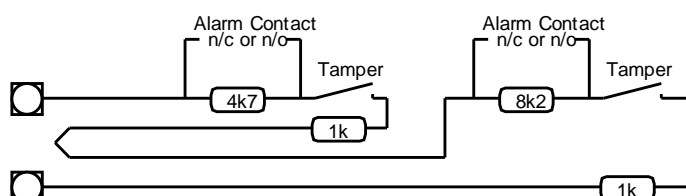


Type 16T - 16 Zones with 8 tampers

Option 1



Option 2



NOTE:

In all cases EXCEPT 8NT, the alarm contact (detector relay) is connected **ACROSS** the zone resistor **NOT** in series with it.

Please note the following important points in the end-of-line examples shown on pages 7 & 8;

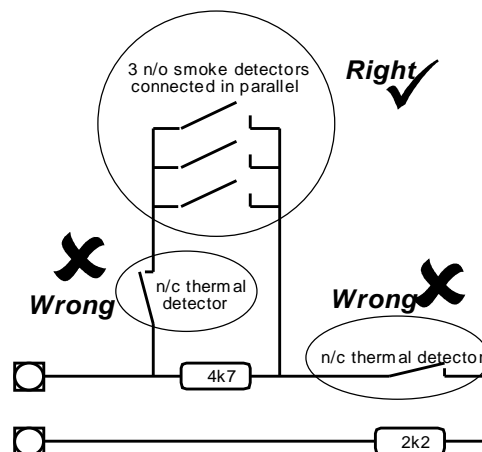
? Low zones refer to zones 1-8

? High Zones refer to zones 9-16

? You may use either normally closed or normally open detection devices as shown in configurations 8T - Low, 8T - High and 16T however all detectors connected to a zone **must** be of the same configuration (n/o or n/c)

For example, you may connect a number of normally open smoke detectors in parallel across the 4k7 end-of-line resistor in the 8T-Low configuration but you cannot connect a normally closed contact in the same zone

Example only



In the example above, an activation of the n/c thermal in the parallel branch of the n/o smoke detectors would not be detected at all. An activation of the thermal in series with the 2k2 end-of-line would produce a "Tamper" condition rather than the required alarm activation where as an activation of a n/o smoke detector in the parallel branch would produce an alarm activation.

From this example you can clearly see why you cannot mix n/o and n/c contacts on one zone

KEYSWITCH - This input can be used to control the panel via a keyswitch, digital keypad or similar. This is a multi-state input which can be end-of-line configured in the same way as the 8 zone inputs. These multiple end-of-line configurations will produce either full set/unset, monitor mode on/off or set/unset of the A, B or C partitions on an individual basis.

TAMPER - A 24Hr tamper circuit is available for monitoring tamper status of detectors, junction boxes, cabinets and satellite sirens etc. This Tamper circuit is programmable with 2 options (P201E5E) either normally closed loop or 2k2 EOL supervision. The tamper circuit must be terminated with an end-of-line resistor if 2k2 EOL supervision is selected. The activation events and outputs for this tamper circuit are mapped in the same manner as for detection zones 1-8.

In addition to the Analogue monitoring inputs, you will find the following system inputs on your Elite V4 control PCB;

AC - Connect the two low voltage wires (no polarity) from the transformer to the terminals marked AC on the Elite PCB. The Elite includes a Telepermitted transformer rated at 1.4 amps at 17 volts and incorporates an inbuilt thermal protection fuse.

EARTH - Always connect the mains earth to the appropriate terminals on the mains terminal block. Also connect a lead from this earth point to the terminal marked "Frame Earth" on the Elite PCB.

BATTERY - Connect a sealed lead acid rechargeable 12V d.c. battery to these red and black battery leads. Be careful to observe correct polarity as damage may occur from incorrect connection. The minimum recommended battery capacity is 6.5 amp hours. Battery charge current at these terminals is limited to 350mA maximum.

LINE IN - This pair of terminals is used to connect the Elite to the incoming telephone line from the street. The communicator uses this line for reporting.

LINE OUT - This pair of terminals is used to connect telephones and other communication equipment to the incoming phone line via the Elite controller. The telephone line is passed through the Elite controller to ensure that the line is available to the controller when it is required. Full details regarding the communicator can be found in a separate section.

OUTPUTS

12 VOLT OUTPUTS - There are four 12 volt dc outputs available on the Elite PCB. These 12 volt outputs are all regulated. Three of them are fuse protected suitable for powering detectors, sirens and other external devices. These outputs are marked 12v and 0v, and are supplied by fuses F1 and F2. A maximum total load of 1 amp may be drawn from these terminals. The fourth set of fused (F2) 12V terminals are found adjacent to the keypad comms clock and data terminals. This 12v output **MUST** only be used to power keypads, radio boards and other intelligent devices which use the keypad comms bus.

OUTPUTS 1 & 2 - These fully programmable, high current, open collector (high-going-low) type FET outputs are capable of switching up to **1.5A @ 12V d.c.** These 2 outputs are normally set as switched outputs, providing power for 12v sirens or piezos. **(This is with links 1 & 2 fitted, refer to drawing on page 10).** However if links 1 or 2 are removed Outputs 1 or 2 (depending upon which link is removed) become siren outputs designed to drive an 8 ohm 10 watt horn speaker per output. Link 1=Output 1, Link 2=Output 2. **Also if a horn speaker is connected to Output 1 you may select the listen-in feature to this output as well so that the dialling sequence can be heard at the speaker.** (Refer to the drawing on page 10 for the position of the link)

OUTPUTS 3- This is a medium current, open collector (high-going-low) type output capable of switching no more than **500mA**. Like Outputs 1 & 2 this output is fully programmable though not available as PWM.

OUTPUTS 4,5,6,7&8 - These are low current, open collector (high-going-low) type outputs capable of switching no more than **100mA**. Like Outputs 1 & 2 they are fully programmable though not available as PWM. These outputs are normally used to control the satellite siren.

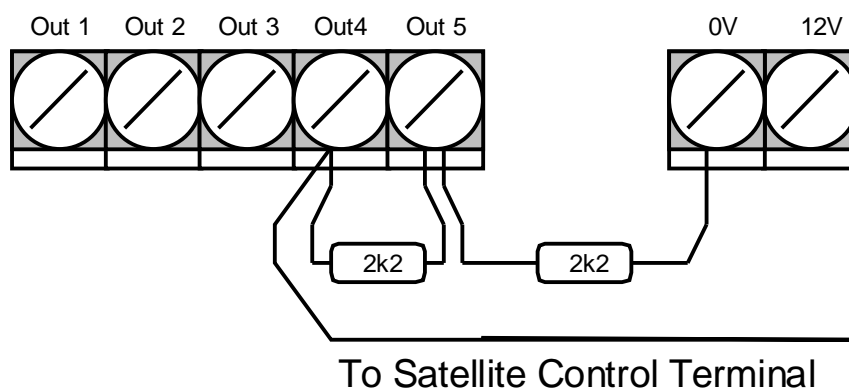
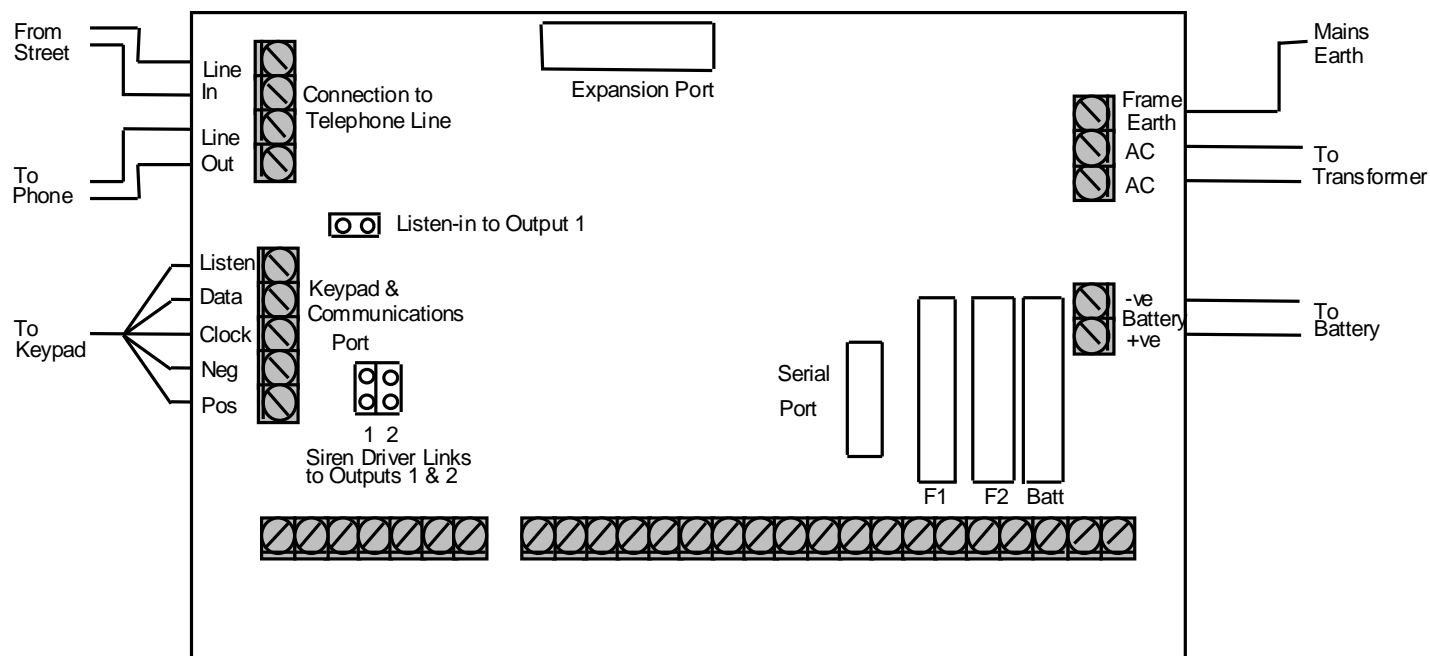
NOTE: - Connecting devices which draw current in excess of 100mA to outputs 4,5,6,7&8 will cause permanent damage to the Elite controller.

KEYPAD PORT - The terminals marked *POS*, *NEG*, *CLOCK*, & *DATA* make up the communications port which the keypads and other intelligent field devices use to talk to the Elite controller. The terminals are connected to corresponding terminals on the remote devices. The "listen" terminal is only used by the keypads and utilises a fifth wire to provide a communicator listen in facility. This feature is particularly useful when servicing monitoring faults.

This keypad 12v output **MUST** only be used to power keypads, radio boards and other intelligent devices which use the keypad comms bus.

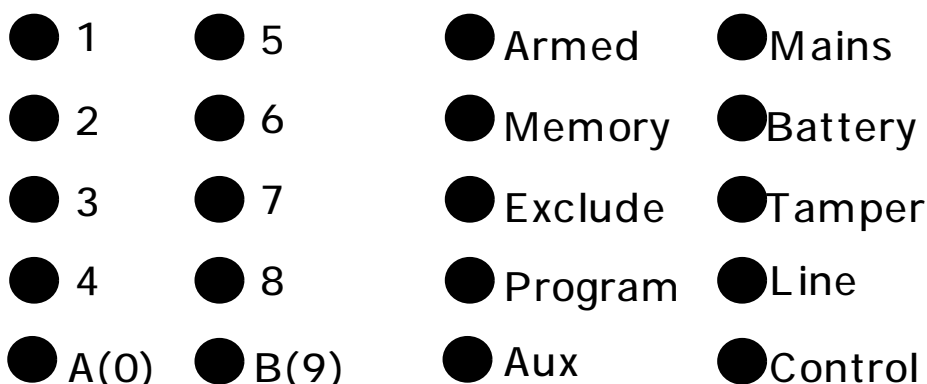
SERIAL PORT - The serial port is for the connection of the Arrowhead RS232 serial board. The serial board allows for printing of the 63 event buffer to a serial printer or for pc direct up/down load connection. It is also used for the EEPROM board to allow program back-up and re-installment.

PCB WIRING DIAGRAM



Use this configuration when connecting to an Arrowhead SAT2-B or SAT3-B unit

Elite



Standard Elite LED Keypad Window Layout

When the Elite is displaying codes and address values in program mode it may be necessary to display the 9 and 0 digits. As there are no Zone indicators for 0 and 9 the "A" and "B" indicators are used.

ie. When displaying values in program mode
"A" = 0 and "B" = 9

LIGHT	OFF	ON STEADY	FLASHING
BATTERY		Normal	Battery Low
MAINS		Normal	Mains Power Off
ARMED	Disarmed	Full Armed	Monitor Mode
MEMORY	Normal	Memory Display	New Event to View
EXCLUDE	Normal	Exclude Mode	Zone(s) Excluded
PROGRAM	Run Mode	Client Program Mode	Installer Program Mode
TAMPER	Normal	Tamper Violated	Tamper Alarm
LINE	Normal	Communicating	Line Fail
AUX.	Viewing 8 Low Zones	Viewing 8 High Zones	Zone violated in High 8
CONTROL	Control Function Off	Control Function On	DOTL Override On
ZONES 1-8	Zone Secure	Zone Violated	Zone in Alarm
* A	Partition A Disarmed	Partition A Armed	Partition A Monitor
* B	Partition B Disarmed	Partition B Armed	Partition B Monitor

* For an expanded explanation of how the ARMED and Area "A" and "B" lights work, please refer to the Programming Keypads section on page 22

KEYPAD FUNCTIONS

The Elite LED Keypad consists of; an 18 button, backlit silicone rubber keypad, 20 LED indicators and an internal piezo buzzer housed in a modern white plastic housing. The plastic housing has a hinged front lid to cover and protect the rubber buttons when not in use. All the electronics are contained on a single circuit board inside the housing.

Because the keypads communicate with the controller using data, the cable run from panel to keypads is secure against tampering. For this reason there is no tamper switch on the keypad assembly. Access to the keypad electronics will not disarm the panel.

BUTTONS

The 18 silicone rubber buttons are used for the following functions.

In normal operating mode the numeric keys are used for entering Access Codes. In Program Mode the numeric keys are used for entering options & new values.

The buttons with text labels are used as function buttons and select the options indicated by the text and normally precede other button presses, e.g. to enter Exclude Mode during the exit delay press <**EXCLUDE**> and the numeric key corresponding to the zone number you wish to be excluded.

The **PROGRAM** Key is used to prefix option selections in the program modes e.g.<**PROGRAM**> 24 <**ENTER**> selects User Code 24. The **PROGRAM** key is also used prior to a Master Code to enter user program mode from normal operating mode.

The **ENTER** Key is used to enter access or program codes. It is normally used at the end of a button sequence except when it is used in a 16 zone system where pressing the <**ENTER**> key will toggle the LED display between the low and high zones. This toggle enables the 8 zone LED's to indicate the status of zones 1-8 (low zones) and zones 9-16 (high zones). This dual status display is achieved by using the AUX. light to indicate which set of zones are currently being displayed. i.e. AUX. off = low zones (1-8) or AUX. on = high zones (9-16). The AUX. light flashing when viewing the low zones means there is a violated zone in the high group.

The **CONTROL** button, if enabled, is used to produce an output without an alarm event. This control output can be used to operate other external devices such as garage door openers, door locks, lights or other options as required.

LED INDICATORS

The LED indicators are used to display system conditions including Zone status, Battery state, Tamper etc. Please refer to the LED table on page 11 for a full explanation of the conditional displays.

KEYPAD TAMPER (wrong code alarm)

A wrong code or **Keypad Tamper** alarm is generated by the Elite after 4 consecutive invalid code entries. The controller will not "Lock-Out" the keypad at this point but simply create an alarm condition as determined but the tamper alarm options (P111E-P118E etc). If the alarm system is a monitored installation, the Elite communicator will report a keypad tamper to the monitoring company. Entry of a valid user code will reset the Keypad Tamper alarm however, the alarm event will be written into memory and the keypad memory light will be flashing indicating the presence of a new memory entry.

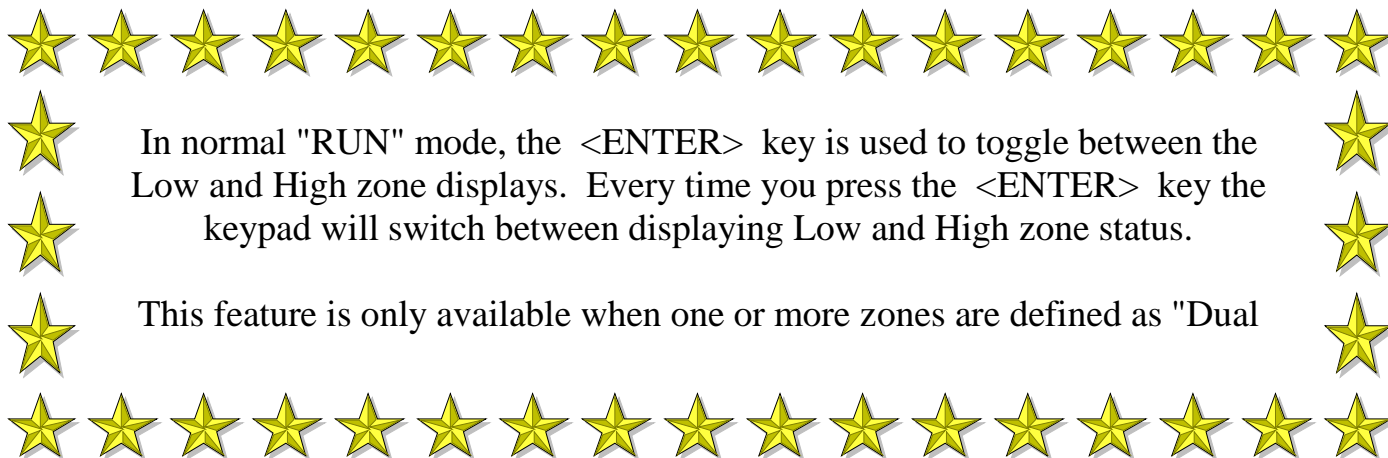
This Elite version 5 alarm panel has an event memory which stores the 63 most recent events including all alarm events, all system events such as mains failure etc as well as settings and unsettings. This event memory is displayed via the standard keypad with the most recent event shown first and subsequent events following in descending order from newest to oldest.

The "MEMORY" light will flash on and off when there is a new event in memory which has not been viewed. To stop the "MEMORY" light flashing, simply press the MEMORY button and the event memory will be flashed back to you with the most recent event shown first. Each event is separated by a beep tone.

There are a number of events which are stored in memory which do not have a specific indicator associated with them such as Panic and Duress. Other events such as tampers and low battery are shared across many devices. For this reason the following table has been created. This table details which indicator lights correspond to which events in memory.

EVENT	DEVICE	INDICATOR	STATUS
ACTIVATION	Zones 1-8	LED's 1-8	On Steady
ACTIVATION	Zones 9-16	LED's 1-8 AUX	On Steady On Steady
EXCLUDE	Zones 1-8	EXCLUDE LED's 1-8	On Steady On Steady
EXCLUDE	Zones 9-16	EXCLUDE LED's 1-8 AUX	On Steady On Steady On Steady
DETECTOR TAMPER (SHORT CIRCUIT)	Zones 1-8	TAMPER LED's 1-8	Flashing On Steady
DETECTOR TAMPER (OPEN CIRCUIT)	Zones 9-16	TAMPER LED's 1-8 AUX	Flashing On Steady On Steady
CABINET TAMPER	Cabinet or Satellite Siren	TAMPER	Flashing
WRONG CODE ALARM	Keypad Tamper	TAMPER	On Steady
LOW BATTERY	Controller Battery	BATTERY	Flashing
MAINS FAILURE	Controller Mains Supply	MAINS	Flashing
LOW BATTERY	Radio PIR Zone 1-8	BATTERY LED's 1-8	Flashing On Steady
LOW BATTERY	Radio PIR Zone 19-16	BATTERY LED's 1-8 AUX	Flashing On Steady On Steady
LOW BATTERY	Radio Key User 1-8	BATTERY LED's 1-8 CONTROL	Flashing On Steady Flashing
LOW BATTERY	Radio Key User 9-16	BATTERY LED's 1-8 CONTROL AUX	Flashing On Steady Flashing On Steady

EVENT	DEVICE	INDICATOR	STATUS
DURESS ALARM	Area "A" Partition	"A" LINE	On Steady Flashing
DURESS ALARM	Area "B" Partition	"B" LINE	On Steady Flashing
DURESS ALARM	Area "C" Partition	"A" & "B" LINE	On Steady Flashing
PANIC	Keypad	LINE	Flashing
PANIC	Radio Key User 1-8	LINE LED's 1-8	Flashing On Steady
PANIC	Radio Key User 9-16	LINE LED's 1-8 AUX	Flashing On Steady On Steady
ARMED	Area "A"	"A"	On Steady
ARMED	Area "B"	"B"	On Steady
ARMED	Area "C"	ARMED	On Steady
MONITOR MODE ON	Area "A"	"A"	Flashing
MONITOR MODE ON	Area "B"	"B"	Flashing
MONITOR MODE ON	Area "C"	ARMED	Flashing
TELEPHONE LINE FAIL	Panel	LINE	On Steady



KEYPAD INSTALLATION

INSTALLATION

Separate the two keypad halves by **carefully** inserting a small screwdriver into the release slots on the bottom edge of the keypad front half and applying a gentle pressure. This will release the bottom edge of the housing enough for you to unclip the top.

Screw the base to the wall using the mounting holes provided. These holes will match the standard single switch plate spacing. Ensure the base is mounted right side up. It is marked with the word "TOP" to aid orientation. When fixing the base to the wall make sure the top of the screw heads will not touch or short out the underside of the PCB when the top half of the keypad is reinstalled. Bring the cables through the centre of the base.

Connect the 4 or 5 wires to the 5 way terminal block on the rear of the keypad PCB making sure to match the cables up with the terminals as marked on the control panel's keypad port. The 5th wire is connected from the "LIN" terminal of the keypad to the "Listen" terminal of the Elite PCB keypad port.

Once the cables have been terminated and the required address allocated (see section below) clip the front half of the keypad onto the base by first engaging the clips at the top edge and then close the front down and clip it in at the bottom. Now stick the zone list provided to the inside of the hinged lid.

WIRING

The Elite keypad connects to the Elite Controller via a 4 or 5 wire data & power connection. A maximum of 8 LED keypads can be connected, each wired in parallel. A 5th wire may be used to provide a "Listen-in" facility at the keypad when an Elite communicator panel is being used.

The maximum recommended cable using standard 0.2mm security cable is 50m. Cable runs exceeding this distance may require 0.5mm cable. Always use good quality cable. Some installations may require data cable to ensure data integrity in noisy sites.

KEYPAD ADDRESS ASSIGNMENT

Keypad Address	Address Links		
#	A	B	C
1			
2	X		
3		X	
4	X	X	
5			X
6	X		X
7		X	X
8	X	X	X

Each of the 8 possible LED keypads which are able to be connected to your Elite panel must be addressed individually to avoid BUS conflicts and other communication problems. As default, each keypad comes addressed as #1 with all links intact.

Use the table to the left to determine which links to cut to assign the correct address to the keypads you are installing.

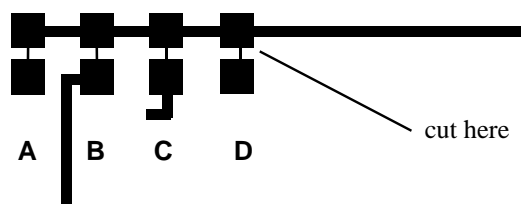
eg. To assign a keypad as address #2, you must cut link A only. To assign a keypad as address #4, you must cut link A&B.

Link D is used to modify the keypad "Panic" button operation. When the link is intact, the "Panic" button must be held down for 3 seconds to cause an alarm. If link D is cut the "Panic" button is instant.

When cutting address links it is important to make a clean cut between the link blocks as shown below. Links can be restored by soldering across the effected pads.

IMPORTANT NOTE: KEYPAD ADDRESS CHANGES ARE ONLY RECOGNISED AT POWER-UP. ALL CHANGES SHOULD BE MADE IN THE POWERED DOWN STATE AND THEN ON POWER-UP THE NEW KEYPAD ADDRESS WILL BE RECOGNISED BY THE PANEL.

X denotes link is cut



INSTALLING RX-16 RADIO RECEIVER

The Elite V5 is fully high level compatible with the new RX-16 radio receiver. The addition of this receiver will add wireless capability to your system in the form of wireless PIR detectors, Wireless Radiokey transmitters and wireless reed switch transmitters. The RX-16 receiver connects to the same communications port as the keypads and can be installed, either inside the cabinet, or if preferred, may be installed at a remote location. The RX-16 is available in 2 frequencies, 303.875mhz or 433.92mhz.

The RX-16 receiver requires 4 cores and can successfully be run in 0.2mm unscreened cable over a distance of up to 100metres. Like the keypads the RX-16 has 12v and 0v terminals for connection to the 12v supply and CLK and DATA terminals for connection to the communications bus. Incorrect connection of the RX-16 receiver will cause a communications bus problems so please ensure that the connections are made correctly.

The green LED fitted to the RX-16 receiver will indicate when the unit is in "Learn" mode (Flashing - see P501E) or when it is receiving an actual radio transmission (On Steady)

INSTALLING OPTIONAL SPEECH UNIT

The Elite V5 control communicator can also be fitted with a 90 second speech module. This module stores either alarm event messages for speech dial monitoring and /or status messages for use with Command Control. The Elite V5 speech module is supplied with all the required mounting hardware and is installed directly onto the motherboard via the "EXPANSION" socket.

Installation procedure for the Speech module is as follows.

- 1 Power-down the Elite fully before starting the installation procedure.
- 2 Carefully install the speech module in the EXPANSION socket using the 24 pin socket on the speech Bd.
- 3 Power-up the Elite.

Once you have installed the speech module you can record your personalised speech messages into the module with the speech dialler programmer. The Elite V5 speech module is fully compatible with the earlier Elite 8 zone speech dialler programmer. The programmer plugs onto the 10 pin header on the speech board and must be installed with the Brown towards the heat-sink on the Elite board (or aligned with Pin #1 as labeled on the speech board). Some programmers are fitted with a polarisation pin on the connection socket which will prevent incorrect insertion however, some earlier units are not so.

To record your messages once the programmer is installed, first press the reset button on the side of the speech board, then hold the programmer about 10 cm away from the mouth and speak clearly at normal level into the microphone while holding down the "REC" button. When you reach the end of your message release the REC button. When recording your voice message, you must ensure that you clearly identify the origin of the call. You can play the message back through the programmer by first pressing the reset button then by pressing the "PLAY" button momentarily. Because the Elite V5 control communicator has the ability to store up to 8 alarm event messages, you must store individual messages at what is known as recording slots within the speech module. Every time you press and release the REC button of the programmer, you create an end of message marker. These markers are used to define the recording slots within the speech module and are of varying length according to each message duration.

To re-record a message you must first press the "RESET" button on the speech module to get back to recording slot #1. Once you are at slot #1 you can re-record your messages in order as required.

NOTE: To start a recording at slot #1 or to play-back starting at slot #1, you must always press the reset button first.

When you have finished recording your alarm messages, unplug the programmer and the process is complete.

HOW TO PROGRAM

The programming sequence always follows this pattern;

<PROGRAM> - <2 or 3 digit address> - **<ENTER>**
3 short beeps if OK - 1 long beep if error
The leds will display current value or status
Enter the new value or option
<New Value> - **<ENTER>**
3 short beeps if OK - 1 long beep if error

Throughout this manual you will see program instructions expressed as
P 23 E 5 E as an example.

In this example the <P> represents the **PROGRAM** key and <E> represents the **ENTER** key.

ACCESS TO PROGRAMMING ON POWER UP

When power is applied to the controller for the first time, with the panel tamper input open, the panel will inhibit tamper alarms and ready the panel to enter PROGRAM Mode(unless the Installer Lock-out option P201E6E has previously been enabled.)At this point you can go to any keypad which is connected to the panel and the first button press will automatically put that keypad into full Program mode.(NOTE:Only one keypad can be in Program mode at any time)

ACCESS TO PROGRAM MODES FROM RUN MODE

Before you can enter program mode, the panel must be unset with no monitor mode.

Press **<PROGRAM>** - <Code 1(or Master Code)> - **<ENTER>**
Program light steady
Note: Default Master Code (Code 1) is 123

You are now in Client Program Mode. When you are in Client programming mode you have access to program addresses P1E to P24E. To enter Install Program Mode

Press **<PROGRAM>** - <Install Code> - **<ENTER>**
Program light flashing
Note: Default Install Code (P99) is 000000

TO CLEAR PROGRAM INFORMATION (From Install Mode Only)

There are five options available for clearing program information (Reset to defaults). These are detailed on page 38.

e.g.To reset User Codes 1-24 (P 741 E)

Press **<PROGRAM>** - 741 - **<ENTER>**
3 beeps - Program light flashing

e.g.To reset Radio Defaults (P 743 E)

Press **<PROGRAM>** - 743 - **<ENTER>**
3 beeps - Program light flashing

After the system configuration or User Codes have been reset, all values, options & Codes will be set to the values shown in the Program Option Summary as defaults. These value & option selections have been chosen as the most common set-up for the majority of systems.

TO EXIT PROGRAM MODES

To exit program modes when you have finished programming:

Press **<PROGRAM>** - **<ENTER>**
Program light goes out

The panel is now back in Run Mode, any program changes you have made will have replaced previous values and be in effect.

Note: During programming Tamper and 24 hour alarms are disabled which allows quiet access to the panel, detectors and satellite siren units etc. On exiting program mode, all inputs are scanned and if any tamper or 24Hr alarms are present an activation will occur.

Note: Where there are multiple options at one address, options 0 & 9 have been reserved. Entering a 0 at the address will turn all options off whereas entering a 9 will turn all options on.

PROGRAMMING USER CODES

USER CODES - (P1E to P24E) & (P99E)

There are 25 codes available in the Elite, 24 user codes and 1 install code. The user codes are located in addresses 1-24. As default, Code 1 has Master Code permissions and must be used to enter program mode. The Installer code is stored at address 99 and is used to move from *Client* Program mode up to *Installer* Program mode.

Codes 1-24 may be varied in length from 1 to 6 digits. Code 99 must be 3-6 digits.

To program a User Code you must first be in client or installer program mode, then select the address from 1-24. (If there is already a code programmed at this address, it will be flashed back to you) Now enter the code then press the **ENTER** key.

eg. P 1 E 1234 E
3 beeps - program light flashing

In this example we have set Code 1 (Master Code) to be 1234.

eg. P 5 E 567 E
3 beeps - program light flashing

In this example we have set code 5 to be 567

To replace a code simply enter the new code in the same address as the old code. This will overwrite the previous code but maintain the user permissions as mapped to that user number.

To clear or delete a code simply enter the EXCLUDE button at the address where the old code is stored.

eg. P 3 E **<EXCLUDE>** E
3 beeps - Program light flashing

USER CODE PERMISSIONS (Code Options) 1st Set - P25E-P48E

- Option 0 - Turns all options off
- Option 1 - Code has Area A permissions
- Option 2 - Code has Area B permissions
- Option 3 - Code has Area C permissions
- Option 4 - Code can Arm Area
- Option 5 - Code can Disarm Area
- Option 6 - Code can turn Monitor on
- Option 7 - Code can turn Monitor off
- Option 8 - Code can Operate control Functions
- Option 9 - Turns all options on.

NOTE: Options 4, 5, 6 & 7 are used in conjunction with options 1, 2 & 3 whereby options 4, 5, 6 & 7 determine the functions and options 1, 2 & 3 determine the area of operation.

USER CODE PERMISSIONS (Code Options) 2nd Set - P49E-P72E

- Option 0 - Turns all options off
- Option 1 - Code can override DOTL timer
- Option 2 - Code can change dialler telephone numbers
- Option 3 - Code can alter the real time clock
- Option 4 - User can start a print dump of the event buffer
- Option 5 - User can answer an incoming call and start up/down load
- Option 6 - User can enter Client Program and change their code only.
- Option 7 - User can enter Client Program and change all codes.
- Option 8 - User can enter Client Program mode and then Installer Program mode(if installer code is known).
- Option 9 - Turns all options on.

USER CODE TIME ZONES - P73E-P96E

Users codes may have Time Zones or windows assigned to control their operation. These Time Zones determine when a particular user code will work. Addresses P73E - P96E are used to map the user code to the required Time Zones. The actual Time Zone parameters are defined at addresses P681E - P704E.

A single value from 0-8 must be assigned to each user code. Time Zone zero (0) is fixed as 24 hour seven day access and is the default time zone for all 24 user codes.

- | | | |
|-------------|-------------|--|
| P73E | TZ E | Where TZ represents the Time Zone from 0-8 valid for User Code #1 (Fixed as TZ-0) |
| P74E | TZ E | Where TZ represents the Time Zone from 0-8 valid for User Code #2 |
| P96E | TZ E | Where TZ represents the Time Zone from 0-8 valid for User Code #24 |

NOTE: More than one Time Zone may be assigned to each user allowing different time based controls for different days of the week etc.

INSTALLER CODE - P99E

This code is used to enter full Installer Program mode (Program light flashing) from Client Program mode (Program light steady) The default installer code is 000000. To change this code enter your new installer code at the P99E address. The new code will be flashed back to you automatically. Like User codes, the Program code may vary from 3-6 digits in length

- | | |
|-----------------------|--|
| P100E Option 8 | If this option is on (Led 8 on) then the installer code can access installer mode directly without needing to enter via client program mode.(All areas must be unset and not in monitor mode). |
|-----------------------|--|

PROGRAMMING OUTPUT OPTIONS

OUTPUT OPTIONS FIRST SET- P101E-P108E

This block of addresses (P101E - P108E) are used to map output modifiers to each of the 8 outputs available on the Elite. Note: Only 5 outputs are available on the Elite mother board. The additional outputs are available on the Output Expander module.

P101E	1E	Invert output #1 - Default off
	2E	Flash output #1 - Default off
	3E	Single pulse to output #1 - Default off
	4E	Lockout output #1 once reset - Default off
	5E	Output mapped to Remote Command Control - Default off
	6E	Output mapped to local Command Control - Default off
	7E	Day zones linked to pulse timer - Default off
	8E	Output pulses on a 24 hour zone alarm - Default off

- Option 1 **Invert Output** - This option is used to invert the normal state of the output. The Elite uses open collector type transistor switches and the default state of all outputs is off or high. When in alarm the transistor switch is turned on and the output is switched low. The invert option reverses this function.
- Option 2 **Flash Output** - This option causes the output to switch on and off at 2 second intervals when in alarm and is normally used to flash a lamp during an activation.
- Option 3 **Single Pulse to Output** - This option, when applied, produces a single 1 second pulse at the output during an alarm (the pulse time is the value programmed at the output pulse timer address).
- Option 4 **Lockout Once Reset** - This option is used to limit the output to one operation per arming period.
- Option 5 **Output mapped to Remote Command Control** - This option is used to map an output to the remote command control function whereby the output can be controlled via the telephone (this requires the optional speech board unit)
- Option 6 **Output mapped to Local Command Control** - This option is used to map an output to the local command control feature whereby the output can be controlled directly from the keypad.
- Option 7 **Day Zones Linked to Pulse Timer** - Day Zones programmed to this output will pulse at the pulse timer rate (P441E) for the duration of the day zone to keypad timer (e.g. if the day zone is in partition A, then the timer at P457E applies)
- Option 8 **Pulsed 24 hour alarm** - If a 24 hour zone activates the alarm this option will cause the output to pulse at a rate equal to the value set for the pulse timer(P441E).This feature is provided to differentiate between a burglar and fire alarm using the same siren.

P102E - P108E As per P101E above for Outputs 2-8

OUTPUT OPTIONS SECOND SET - P111E - P118E

In this block of addresses P111E relates to output #1, P112E relates to output #2 etc

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PROGRAMMING OUTPUT OPTIONS CONT.

P111E	1E	Keypad panic to Output #1
	2E	Keypad Tamperers to Output #1
	3E	Zone Tamperers to Output #1
	4E	Cabinet Tamper to Output #1
	5E	Radio Panic to Output #1
	6E	Mains Fail to Output #1
	7E	Battery Low to Output #1
	8E	Phone Line Fail

- Option 1 **Keypad Panic to Output** - This option is used to map the operation of the keypad panic button to an output i.e. when the Panic button on a keypad is pressed any output with this option enabled will turn on.
- Option 2 **Keypad Tamperers to Output** - This option is used to map Keypad Tamperers to an output. Keypad Tamperers are generated when an invalid code is entered four times.
- Option 3 **Zone Tamperers to Output** - Where dual end-of-line resistors are being used to provide individual zone tamperers Option 3 at this address is used to map the Zone Tamperers to an output.
- Option 4 **Cabinet Tamper to Output** - This option is used to map activations of the common Tamper Input to an output. This common tamper input is normally used to monitor the panel cabinet and satellite tamper switches.
- Option 5 **Radio Panic to Output** - This option will map the operation of a Radio pendant panic button to an output. Programming of Radio Pendant options is found at P581E - P596E
- Option 6 **Mails Fail To Output** - A mains failure will be indicated at this output when option 6 is enabled at this address. The Alarm Reset Timer **MUST NOT** be used in conjunction wit this option.
- Option 7 **Low Battery** - A battery Low condition will be indicated at this output when option 7 is enabled at this address. The alarm reset timer **MUST NOT** be used in conjunction with this option.
- Option 8 - **Phone Line Fail**- A telephone line failure will be indicated at this output when option 8 is enabled at this address. When the line restores this output will return to normal.

OUTPUT TIME ZONES

OUTPUT AUTO ON/OFF TIME ZONES - P121E - 128E

This block of addresses are used to map automatic turn on and turn off periods to each of the outputs where required. The start of the time zone will cause outputs mapped at these addresses to turn on whereas the end of the time zone will cause the output to turn off. As with User Code time zones, the actual times assigned to each time zone(1-8) are defined at addresses P801E - P824E. Multiple Time Zones may be assigned to each output

P121E TZE Where TZ represents the Time Zone # which defines the turn on and turn off times required for output #1
P122E TZE Where TZ represents the time zone # which defines the turn on and turn off times required for output #2
P123E TZE Where TZ represents the Time Zone # which defines the turn on and turn off times required for output #3

P124E - P128E As per above but for outputs 4-8

NOTE: *A value of zero (0) at these addresses will disable any auto turn on turn off features at that output.*

OUTPUT ENABLE TIME ZONES - P131E - P138E

This block of addresses are used to map enable time zones to each of the outputs as required. The assigned time zone will enable the output to be activated. As with User Code time zones, the actual times assigned to each time zone(1-8) are defined at addresses P801E - P824E. This feature is normally used to restrict the Access Control functions to pre-determined times and days

P131E TZE Where TZ represents the time zone which enables output #1
P132E TZE Where TZ represents the time zone which enables output #2
P133E TZE Where TZ represents the time zone which enables output #3

P134E - P138E As per above but for outputs 4-8

NOTE: *A value of zero (0) at these addresses will enable that output 24hrs 7 days.*

PROGRAMMING KEYPAD OPTIONS

KEYPAD OPTIONS - P140E - P158E

All keypads must be assigned to a partition or area. Keypads may be assigned in more that one area whereby the area setting and unsetting is determined by the user code permissions. If a keypad is assigned to one area only, activity in another area will not be shown. (with the exception of zone indications).

NOTE: *A keypad can only be used to control the partition or area to which it has been assigned.*

Within the display of the Elite V4 keypads you will find an "ARMED" indicator as well as area "A" and area "B" indicators. When a keypad is assigned to **only one** area, the "ARMED" indicator will show steady on for armed, flashing on and off for monitor and steady off for disarmed.

If a keypad is assigned to multiple areas the area "A" and "B" indicators will show steady for area armed, flash on and off for area in monitor and remain off for area disarmed. Area "C" is indicated by the "ARMED" light in the same way as the "A" and "B"

NOTE: *In a partitioned system areas A, B & C can be set, unset and monitored independently*

PROGRAMMING KEYPAD OPTIONS cont.

The block of addresses from P140E to P158E are used to assign the basic function options of each keypad in the system. Each of the address lines from P140E to P158E may have 8 options assigned where the 8 options represent the individual addresses of the keypads in the system. i.e. if options 1, 2 & 4 are enabled at address P140E then keypads 1, 2 and 4 would be assigned to area "A".

P140E	1-8E	Keypads assigned to Area A (Default 1-8)
P141E	1-8E	Keypads assigned to Area B (Default none)
P142E	1-8E	Keypads assigned to Area C (Default none)
P143E	1-8E	Keypads with permission to Set (Default 1-8)
P144E	1-8E	Keypads with permission to Monitor (Default 1-8)
P145E	1-8E	Keypads with permission to use the Control Function (Default 1-8)
P146E	1-8E	Keypads with permission to Exclude (Default 1-8)
P147E	1-8E	Keypads with permission to Line Monitor (Default 1-8)
P148E	1-8E	Keypads with permission to program User Codes (Default 1-8)
P149E	1-8E	Keypads with permission to Installer Program Mode (Default 1-8)
P152E	1-8E	Keypads with facility to turn the LED's off after Exit Delay (Default none)
P153E	1-8E	Keypads with buzzer mapped to keypad tampers (Default 1-8)
P154E	1-8E	Keypads with buzzer mapped to zone tampers (Default 1-8)
P155E	1-8E	Keypads with buzzer mapped to system tampers (Default 1-8)
P156E	1-8E	Keypads with Panic button enabled (Default 1-8)
P157E	1-8E	Keypads with buzzer mapped to keypad panic activation (Default 1-8)
P158E	1-8E	Keypads with buzzer mapped to phone line failure (Default none)

At address lines such as P140E where there are 8 bits or options available, each option can be selected by pressing the numeric key which corresponds to the option or bit number your wish to enable.

For example, to assign keypads 1,2, & 4 to Area "B"

P 141 E 124 E
LED's 1,2 & 4 come on
3 beeps, program light flashing

When you enter the program address, i.e. P140E, any existing options will be displayed to you. As you enter your options, the display will be updated to show the current option status.

NOTE: *If an option is already enabled pressing the numeric key which corresponds to that option will toggle the option off.*

Note: Where there are multiple options at one address, options 0 & 9 have been reserved. Entering a 0 at the address will turn all options off whereas option 9 will turn all options on.

PROGRAMMING PARTITION "A" PARAMETERS

P170E 1-8 Time Zone to use for Auto Arm or Disarm (Default 0) - This option will determine which Time Zone will cause Area "A" to arm, disarm or both, based on the programmed options set at P180E.

PARTITION "A" PRIMARY OUTPUT OPTIONS first set - P171E - P178E

This block of addresses sets a number of output options which are specific and unique to the operation of partition or Area "A". Activity in Areas "B" or "C" will have NO direct effect on the options set at these addresses.

P171E 1E Normal zone alarms to output #1
2E 24 hour alarms to output #1
3E Monitor Mode alarms to output #1
4E Pendant chirps to output #1
5E All zones sealed indication to output #1
6E 2 second pulse on arming or disarming to output #1
7E Intelligent smoke reset pulse to output #1
8E Day zone alarms to output #1

- Option 1 **Normal zone alarms to output #1** - This option will map activation from normal zone alarms from Area "A" to output #1. Normal zones are those which will only activate when the partition is armed (Set)
- Option 2 **24 Hour alarms to output #1** - This option will map activations from zones defined as Area "A" 24 Hour to output #1. Zones are defined as 24 Hour at P338E and P358E
- Option 3 **Monitor Mode alarms to output #1** - This option will map activations from zones defined as Area "A" Monitor Mode to output #1. Zones are defined as Monitor Mode at P339E and P359E
- Option 4 **Pendant Chirps to output #1** - This option will map two short pulses (Chirps) to output #1 when Area "A" is set via a radio key (Pendant) and four short pulses to output #1 when Area "A" is unset again.
- Option 5 **All zones sealed indication to output #1** - This option will map a Area "A" safe indication to output #1. A safe indication is produced when all zones in an area are sealed, i.e. zone lights off.
- Option 6 **2 second pulse to output #1 on arming or disarming** - This option will map a 2 second pulsed output at Output #1 each time Area "A" is armed or disarmed as defined at P199E options 6&7.
- Option 7 **Intelligent Smoke Reset pulse to output #1** - This option is similar to option 6 in that it produces a momentary pulse at the output when Area "A" is armed and is used to reset latching smoke detectors. The difference is that this option will only produce a pulsed output if a 24 Hour zone in Area "A" has been activated during the previous armed period.
- Option 8 **Day zone alarms to output #1** - The option will map activations from Area "A" zones defined as Day Zones to output #1. Zones are defined as Day Zones at P340E and P360E. Day zones are those which operate only during periods when the Area is disarmed and are normally used as door bells and shop minders etc.

Note: P172E through P178E are as above but applied to outputs 2-8

Option 7 *MUST* be used on systems where ESL brand 449 series smoke detectors are installed rather than option 6. This is due to the way in which the 449 series detectors perform a "self check" function every 24 hours. Interrupting the power supply to these detectors restarts their internal timer and in normal system operation of arming and disarming every day, the detector is unlikely to time-out and perform it's self test.

PARTITION "A" SPECIFIC OUTPUT OPTIONS second set - P181E - P188E

As with P171E to P178E, this block of addresses sets a number of output options which are specific and unique to the operation of partition or Area "A". Activity in Areas "B" or "C" will have NO direct effect on the options set at these addresses.

P181E	1E	Any exclude to output #1
	2E	Auto-Exclude warning to output #1
	3E	Entry beeps to output #1
	4E	Exit beeps to output #1
	5E	Control function to output #1
	6E	Set/Unset indication to output #1
	7E	Monitor Mode on/off to output #1
	8E	Keypad Duress to output #1

- Option 1 **Any exclude to output #1** - This option will produce a change of state at output #1 if there are any zones excluded, either manually or automatically. This change of state will occur at the end of the Exit delay. The output reset time (P421E) should be set to zero when this option is enabled.
- Option 2 **Auto-Exclude warning to output #1** - This option will produce a 2 second pulse at output #1 at the end of the exit period if a zone has been Auto-excluded in Area "A". An Auto-Exclude occurs when a zone is left un-sealed at the end of the exit delay. At the end of the exit delay zones not defined as Auto-Exclude which are left un-sealed will produce an activation. Auto-Exclude assignments are found at P342E and P362E
- Option 3 **Entry beeps to output #1** - This option will map the keypad entry beeps to output #1.
- Option 4 **Exit beeps to output #1** - This option will map the keypad exit beeps to output #1.
- Option 5 **Control function to output #1** - This option maps the control functions in Area "A" to output #1. Control function parameters for Area "A" are defined at P198E options 5-8
- Option 6 **Set / Unset indication to output #1** - This option will turn output #1 on when Area "A" is armed and turn output #1 off when Area "A" is disarmed. This change of state occurs at the start of the exit delay and when the Area is disarmed. Output reset time should be set to zero (P421E0E)
- Option 7 **Monitor Mode on / off** - This option will turn output #1 on when Area "A" is placed in Monitor Mode and turn output #1 off when Area "A" Monitor Mode is turned off. Like option 6 this change of state occurs either at the start of the exit delay or when the Area is disarmed. Output reset time should be set to zero (P421E0E)
- Option 8 **Keypad Duress to output #1** - This option will produce a change of state at output #1 when a Duress Alarm is activated. A Duress Alarm is activated only when the pre-defined "Duress Digit" (P197E) is prefixed to a valid Area "A" user code and entered at an Area "A" keypad. Output reset time should be set to zero (P421E0E)

** NOTE: The Duress Alarm can only reset by arming then disarming the affected area **

Note: P182E through P188E are as above but applied to outputs 2-8

PARTITION A KEYPAD OPTIONS - P189E & P190E

- P189E** **"ARM" key can disarm during exit delay** - This option enables the one key disarm during exit delay feature on a keypad by keypad basis with Partition boundaries. Options 1-8 represent keypads 1-8
- P190E** **"MONITOR" key can disarm during Monitor Mode** - This options enables single button disarm of the monitor mode via the "MONITOR" key. Options 1-8 represent keypads 1-8

PARTITION "A" KEYPAD OPTIONS - P191E - P196E

- P191E 1-8 **Day Zone alarms to keypad buzzer** (Default all) - This option will operate the keypad buzzer when a day zone is activated. The duration of the buzzer is defined at P457E. Day zones are those which are active during periods when the Area is unset.
- P192E 1-8 **Standard zone alarms to keypad buzzer** (Default all) - This option will map standard zone activations to the keypad buzzer. Normal zones are those which will only activate when the partition is set
- P193E 1-8 **Monitor mode alarms to keypad buzzer** (Default all) - This option will map activations from zones defined as Monitor Mode to the keypad buzzer.
- P194E 1-8 **24 Hour alarms to keypad buzzer** (Default all) - This option will map activations from zones defined as 24 Hour to the keypad buzzer. 24 Hour zones are those which will activate whether the Area is set or unset.
- P195E 1-8 **Exit beeps to keypad buzzer** (Default all) - This option will produce beeps at the keypad during the Exit delay. Pressing any button during the Exit period will cancel the beeps.
- P196E 1-8 **Entry beeps to keypad buzzer** (Default all) - This option will produce beeps at the keypad during the Entry Delay. Pressing the first digit of your user code will cancel the beeps.
- P197E 0-9 **Duress Digit** (Default 0) - A Duress Alarm is activated only when the "Duress Digit" defined at this address is prefixed to a valid Area "A" user code and entered at a keypad which has been assigned Area "A" permissions. The resulting Duress Alarm will unset the Area in the normal way, operate an output if one is defined and report a duress event via the communicator. Values of 0-9 may be entered at this address where 0 = option disabled and 1-9 represent the digits 1-9.

NOTE: At addresses P191E to P196E options 1-8 refer to keypads 1-8

PARTITION "A" TIME AND DELAY OPTIONS - P180E

- P180E** 1E set partition when time zone ends -Default off
2E unset partition when time zone starts - Default off
3E disable monitor mode exit delay - Default off
4E disable set mode exit delay - Default off
5E disable monitor mode entry delay - Default off
6E disable set mode entry delay - Default off
7E spare
8E disable zone tampers during exit delay time-Default off
- Option 1** **Set partition when time zone ends** - this option will automatically arm partition "A" when the time zone programmed at address P170E finishes.
- Option 2** **Unset partition when the time zone starts** - this option will automatically disarm partition "A" when the time zone programmed at address P170E starts.
- Option 3** **Disable monitor mode exit delay.** If this option is on the exit delay for partition "A" does not apply to monitor mode.
- Option 4** **Disable set mode exit delay** - if this option is on the exit delay for partition "A" does not apply when setting (the delay will still apply to monitor mode unless option 3 is also on).
- Option 5** **Disable monitor mode entry delay** - if this option is on then all zones are instant in monitor mode regardless of any entry delays programmed to zones.
- Option 6** **Disable set mode entry delay** - if this option is on then all zones are instant in full set mode regardless of any entry delays programmed to zones (entry delays will still apply to zones in monitor mode unless option 5 is also on).
- Option 7** **Spare**
- Option 8** **Disable zone tampers during exit time.** If this option is set then the zone tampers for this Partition are ignored during the exit delay(useful for monitoring zone troubles on smoke detectors)

PARTITION "A" MISCELLANEOUS KEYPAD OPTIONS - P198E

P198E	1E	Spare
	2E	Arm key required before code to set
	3E	Monitor key required before code to turn on Monitor Mode
	4E	Code required to arm area
	5E	Control function requires code
	6E	Control function toggles
	7E	Control function is momentary
	8E	Control shunts "Day" mode

Option 1 **Spare**

Option 2 **Arm key required before code to set** - This option determines if the "ARM" key must be pressed before a code is entered to set Area "A". This option must be enabled where a keypad is assigned to more than one area.

Option 3 **Monitor key required before code to turn on Monitor Mode** - This option determines if the "MONITOR" key must be pressed before a code is entered to turn on Monitor Mode in Area "A". This option must be enabled where a keypad is assigned to more than one area.

Option 4 **Code required to arm area** - If this option is off the partition can be shortcut armed. Shortcut arming is when the area can be set by pressing the "ARM" key only, i.e. no code is required. If this option is on, a valid Area "A" user code is required to set the area.

Option 5 **Control function requires code** - This option determines if a code is required to operate the Control function. The Control function provides the ability to operate an output from a key press rather than from an alarm event. If this option is off, pressing the "CONTROL" key will produce an output as assigned at P181E through P188E option 5

Option 6 **Control function toggles** - If this function is enabled, the output which is mapped to the control function will toggle to the opposite state each time the control function is operated, i.e. if the output is on it will turn off etc.

If the reset time mapped to the control output is zero the output will remain on until the control function operates again and toggles it off. If there is a reset time mapped to the control output, the output will turn off at the end of the reset time as expected. The next time the Control function is operated the output will come on again for the reset period then turn off.

Option 7 **Control function is momentary** - If this option is enabled, the output which is mapped to the control function will turn on for the time period as determined by the value of the pulse timer mapped to the control output.

Option 8 **Control shunts "Day" mode** - If this option is enabled, pressing the CONTROL button will shunt or override any Day mode activations. When the Control shunt is active the CONTROL light will be on. To restore the day function simply press the Control button again.

Note: We advise that only one of the Control Function options be assigned at this address.

PARTITION "A" MISCELLANEOUS OPTIONS 2nd set - P199E

199E	1E	Keyswitch Input enabled
	2E	Use 2nd Keyswitch
	3E	Keyswitch arms Area "A"
	4E	Pendant chirps on Area "A" Arming / disarming
	5E	Pendant chirps on Area "A" Monitor on / off
	6E	2 second output on setting
	7E	2 second output on unsetting
	8E	Access Control enabled even when Area "A" is set

- Option 1 **Keyswitch Input enabled** - This option will enable the Keyswitch input. Operating the Keyswitch input will arm Area "A" as determined by P199E option 3. The Keyswitch type is programmed at P201E options 3&4
- Option 2 **Use 2nd Keyswitch** - This option will enable dual end of line configuration of the Keyswitch input and assign the high value end-of-line (8k2) to Area "A"
- Option 3 **Keyswitch arms Area "A"** - If this option is enabled, operating the Keyswitch will arm Area "A". If this option is disabled, operating the Keyswitch will turn Area "A" Monitor Mode on and off.
- Option 4 **Pendant Chirps when arming / disarming** - This option will send two short pulses (Chirps) to the output mapped at P171E - P178E option 4 when Area "A" is set via a radio key (Pendant) and four short pulses to the output when Area "A" is unset again.
- Option 5 **Pendant Chirps when Monitor Mode on / off** - This option will send two short pulses (Chirps) to the output mapped at P171E - P178E option 4 when Monitor Mode Area "A" is turned on with a radio key (Pendant) and four short pulses to the output when Area "A" Monitor Mode is turned off.
- Option 6 **2 second output on setting** - If this option is enabled, the output which is assigned by P171E6E through P178E6E will turn on for 2 seconds when Area "A" is armed.
- Option 7 **2 second output on unsetting** - If this option is enabled, the output which is assigned by P171E6E through P178E6E will turn on for 2 seconds when Area "A" is disarmed.
- Option 8 **Access Control enabled when Area "A" set** - If this option is enabled, the Access Control functions, as determined by P343E, P344E, P363E and P364E will work at all times, even when Area "A" is in the set condition.

NOTE: At this address, options 3, 4 & 6 are on as default

Where addresses P170E through P199E relate to Area "A", addresses P270E through P299E define the same options but relevant to Area "B" with addresses 370E through P399E relevant to Area "C"

MISCELLANEOUS OPTIONS - P201E to P206E

P201E	1E	Mains input AC or DC
	2E	Ignore Mains input
	3E	Low Keyswitch is momentary or latching
	4E	High Keyswitch is momentary or latching
	5E	Cabinet tamper is loop or end-of-line
	6E	Installer lockout
	7E	Area "C" is zones shared with Area "A" & "B", i.e. Area "C" is zones common to "A" & "B"
	8E	Local serial port speed

- Option 1 **Mains input is AC or DC** - The AC input on the panel can be 17vac @ 50hz or a DC input between 16-30v DC. This option stops the Mains fail from occurring if a DC input is applied.
- Option 2 **Ignore Mains Input** - If the panel must be run off a 12v DC supply only such as a solar application the 12v can be applied to the battery input and the mains input is ignored.
- Option 3 **Low Keyswitch is momentary or latching** - This option determines if the low Keyswitch (4k7) is momentary or latching. If option 3 is on the low Keyswitch will be momentary (Default)
- Option 4 **High Keyswitch is momentary or latching** - This option determines if the high Keyswitch (8k2) is momentary or latching. If option 4 is on the high Keyswitch will be momentary (Default)
- Option 5 **Cabinet tamper is loop or end-of-line** - This option determines if the Cabinet tamper input uses a closed loop or 2k2 end-of-line resistor. If option 5 is on the tamper is a 2k2. (Default)
- Option 6 **Installer lockout** - If this option is enabled, the installer "Back Door" power up access to program mode will be disabled. (Default off)
- Option 7 **Area "C" is zones shared with Areas "A" & "B"** - If the system uses zones which are common to Area "A" and Area "B" then Area "C" is used for those shared zones. If zones are not shared between A & B then Area "C" is available as a independent partition. Light on = Shared
- Option 8 **Local serial port speed** - This option sets the local communications speed of the local RS232 port to be 9600bps. If this option is off the com port speed is set to 2400bps.

P204E	1-255E	Spare
P205E	0-255E	Spare
P206E	1-255E	Spare

PROGRAMMING ZONE ASSIGNMENTS

SINGLE OR DUAL ZONE INPUT (8 or 16 zones) - P300E

P300E 1-8E **Single or dual zone input** - This option is used to define the Elite as an 8 or 16 zone panel where options 1-8 represent zones 1-8. If a zone is optioned on at this address it means that zone has been assigned "Zone Doubling" whereby the one zone input is used for both a low (1-8) and a high (9-16) zone. When zone doubling is used, zone 1 input is used for zones 1 & 9, Zone 2 input is used for zones 2 & 10, zones 3 input is used for zones 3 & 11 etc. Zone doubling is assigned on a zone-by-zone basis.

VIBRATION SENSOR ZONE ASSIGNMENTS - P301E - P308E & P161E -P168E

All 16 zones (if used) may be defined as vibration sensor zones with a vibration sensitivity level as required, although due to the interaction using dual zones with vibration sensors we recommend using a low sensitivity setting or preferably treating the panel as an 8 zone only with up to 8 vibration zones. This feature has been designed with the NESS vibration sensor in mind. If a value other than zero is assigned at addresses P301E to P308E or P161 to P168 the zone which has been assigned that value automatically becomes a vibration zone. To turn a vibration zone back into a normal zone assign a zero value at the relevant address. Zero is defaulted.

P301E	0-8E	Zone 1 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P302E	0-8E	Zone 2 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P303E	0-8E	Zone 3 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P304E	0-8E	Zone 4 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P305E	0-8E	Zone 5 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P306E	0-8E	Zone 6 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P307E	0-8E	Zone 7 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P308E	0-8E	Zone 8 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P161E	0-8E	Zone 9 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P162E	0-8E	Zone 10 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P163E	0-8E	Zone 11 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P164E	0-8E	Zone 12 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P165E	0-8E	Zone 13 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P166E	0-8E	Zone 14 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P167E	0-8E	Zone 15 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.
P168E	0-8E	Zone 16 vibration sensitivity - Where 0 = none, 1 is highest and 8 is lowest sensitivity level.

LOW ZONE ASSIGNMENTS (1-8) - P331E - P344E

Combinations of options in addresses P331E to P344E may be used to give the most suitable zone behaviour.

P331E 1-8E **Zone is a normally open input** - where options 1-8 represent zones 1-8. This option is used when normally open detectors such as smoke detectors are to connected to a zone. Default is all zones normally closed.

P332E 1-8E **Zone is a radio detector** - Where options 1-8 represent zones 1-8. This option is used when Radio (wireless) devices are used as detectors. (Default none)

P333E 1-8E **Zone is in Area "A"** - Where options 1-8 represent zones 1-8. This option assigns a zone to Area "A" within a partitioned system. If the system is not partitioned, all zones must be assigned to Area "A". (Default all in Area "A") See P201E7E also.

P334E 1-8E **Zone is in Area "B"** - Where options 1-8 represent zones 1-8. This option assigns a zone to Area "B" within a partitioned system. (Default none in Area "B") See P201E7E also.

If a zone is defined in both Area "A" and Area "B" it is deemed to be in Area "C"

P335E 1-8E **Zone is isolatable** - Where options 1-8 represent zones 1-8. This option determines if a zone can be isolated or excluded either manually or via the Auto-Exclude process. (Default all on)

P336E	1-8E	Zone is a handover - Where options 1-8 represent zones 1-8. Zones defined at this address as handover are given the unique ability to behave as both delay and instant zones. If a zone defined as an entry delay zone has been activated and the entry delay is running, a handover zone will behave as another entry delay zone with a delay time as defined at P401E to P416E. If an entry delay zone has not been activated and there is no entry delay running, a handover zone becomes an instant zone with no entry delay. (Default 2) The Handover zone MUST have an entry delay programmed.
P337E	1-8E	Two Trigger Zones - Where options 1-8 represent zones 1-8. A zone defined as two trigger at this address will only cause an activation if one of the following conditions are met; a The zone is triggered twice within the two trigger time period as defined by Address P451E, P452E or P453E b Any two zones defined as two trigger activate once each within the two trigger time period as defined by Address P451E, P452E or P453E c A zone defined as two trigger is left violated for longer than the two trigger time period as defined by Address P451E, P452E or P453E
P338E	1-8E	Zone is 24 Hour - Where options 1-8 represent zones 1-8. 24 hour zones will activate whether the panel or partition is set or unset. The entry delay can also be assigned. (Default none)
P339E	1-8E	Monitor Mode Zones - Where options 1-8 represent zones 1-8. Zones included at this address will become active when the panel is in Monitor Mode. Zones not assigned at this address will be excluded. (Default 1-4) Note: Monitor Mode Zones are linked to Area assignments
P340E	1-8E	Day Zones - Where options 1-8 represent zones 1-8. Day zones are active during periods where the panel or partitions are unset and revert to normal zones during set periods (Default none)
P341E	1-8E	Siren Lockout Zones - Where options 1-8 represent zones 1-8. Zones with siren lockout designation will only cause their assigned outputs to operate once per armed period. Led on = zone locked out. (Default none)
P342E	1-8E	Auto Exclude Zones - Where options 1-8 represent zones 1-8. Zones assigned Auto Exclude function at this address will be automatically excluded by the system if they are unsealed when the exit timers expire. Zones not given Auto Exclude status will cause an activation if they are unsealed at the end of the exit delay period. (Default all on)
P343E	1-8E	Access Control door position input - Where options 1-8 represent zones 1-8. (Default none)
P344E	1-8E	Access Control Request to exit input - Where options 1-8 represent zones 1-8. (Default none)
P345E	1-8E	Continuous Day Zone - Where options 1-8 represent zones 1-8. The zone acts as a dayzone at all times (Armed and Disarmed) and will operate day alarms but not normal zone alarms (Default none)
P346E	1-8E	Zone will report multiple activations to communicator - Default 1-8

Where addresses P331E through P346E relate to the 8 low zones, addresses P351E through P366E define the same options but relate to the 8 high zones

PROGRAMMING DELAYS & TIMERS

SYSTEM DELAYS AND TIMERS - P401E to P459E

All timers are defined with 1 second increments. A zero (0) value at these addresses will result in a latch or no timed function at all. **NOTE: All values are in seconds**

P401E	0-999E	Zone 1 entry delay - 0-999 seconds - default 20 seconds
P402E	0-999E	Zone 2 entry delay - 0-999 seconds - default 20 seconds
P403E	0-999E	Zone 3 entry delay - 0-999 seconds - default 0 (Instant)
P404E	0-999E	Zone 4 entry delay - 0-999 seconds - default 0 (Instant)
P405E	0-999E	Zone 5 entry delay - 0-999 seconds - default 0 (Instant)
P406E	0-999E	Zone 6 entry delay - 0-999 seconds - default 0 (Instant)
P407E	0-999E	Zone 7 entry delay - 0-999 seconds - default 0 (Instant)
P408E	0-999E	Zone 8 entry delay - 0-999 seconds - default 0 (Instant)
P409E	0-999E	Zone 9 entry delay - 0-999 seconds - default 0 (Instant)
P410E	0-999E	Zone 10 entry delay - 0-999 seconds - default 0 (Instant)
P411E	0-999E	Zone 11 entry delay - 0-999 seconds - default 0 (Instant)
P412E	0-999E	Zone 12 entry delay - 0-999 seconds - default 0 (Instant)
P413E	0-999E	Zone 13 entry delay - 0-999 seconds - default 0 (Instant)
P414E	0-999E	Zone 14 entry delay - 0-999 seconds - default 0 (Instant)
P415E	0-999E	Zone 15 entry delay - 0-999 seconds - default 0 (Instant)
P416E	0-999E	Zone 16 entry delay - 0-999 seconds - default 0 (Instant)

120 sec	2 min
180 sec	3 min
240 sec	4 min
300 sec	5 min
360 sec	6 min
420 sec	7 min
480 sec	8min
540 sec	9 min
600 sec	10min

P417E	0-999E	Area "A" exit delay - 0-999 seconds - Default 60 seconds
P418E	0-999E	Area "B" exit delay - 0-999 seconds - Default 60 seconds
P419E	0-999E	Area "C" exit delay - 0-999 seconds - Default 60 seconds

P421E	0-999E	Output #1 reset time - Default 600 seconds (10 min)
P422E	0-999E	Output #2 reset time - Default 600 seconds (10 min)
P423E	0-999E	Output #3 reset time - Default 600 seconds (10 min)
P424E	0-999E	Output #4 reset time - Default 600 seconds (10 min)
P425E	0-999E	Output #5 reset time - Default 0 (latching)
P426E	0-999E	Output #6 reset time - Default 0 (latching)
P427E	0-999E	Output #7 reset time - Default 0 (latching)
P428E	0-999E	Output #8 reset time - Default 0 (latching)

P431E	0-999E	Output #1 delay on timer - Default 0 (instant)
P432E	0-999E	Output #2 delay on timer - Default 0 (instant)
P433E	0-999E	Output #3 delay on timer - Default 0 (instant)
P434E	0-999E	Output #4 delay on timer - Default 0 (instant)
P435E	0-999E	Output #5 delay on timer - Default 0 (instant)
P436E	0-999E	Output #6 delay on timer - Default 0 (instant)
P437E	0-999E	Output #7 delay on timer - Default 0 (instant)
P438E	0-999E	Output #8 delay on timer - Default 0 (instant)

P441E	0-999E	Output #1 pulse time -Default 0 (0 = Minimum 0.1 sec pulse) Times are in 1/10 second
P442E	0-999E	Output #2 pulse time -Default 0 (0 = Minimum 0.1 sec pulse) increments
P443E	0-999E	Output #3 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P444E	0-999E	Output #4 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P445E	0-999E	Output #5 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P446E	0-999E	Output #6 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P447E	0-999E	Output #7 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P448E	0-999E	Output #8 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P451E	0-999E	Area "A" Two Trigger time period - Default 60 seconds
P452E	0-999E	Area "B" Two Trigger time period - Default 60 seconds
P453E	0-999E	Area "C" Two Trigger time period - Default 60 seconds

P457E	1-999E	Area "A" Day Zone keypad buzzer duration - Default 2 seconds
P458E	1-999E	Area "B" Day Zone keypad buzzer duration - Default 2 seconds
P459E	1-999E	Area "C" Day Zone keypad buzzer duration - Default 2 seconds

The Elite V4 provides a basic Access Control function which utilises the keypad Control Function, one of the outputs as a switching device and separate zone inputs as Request-to-Exit and door position monitoring. Address

ELITE ACCESS CONTROL

P343E is used to assign a zone to be the door position monitor input and address P344E is used to assign a zone as the request to exit input. Once options have been programmed, a door which is fitted with a reed switch, monitored by the zone as defined at P343E will cause a 24 hour alarm if it is opened without the Control Function being operated. Once the control function has been operated with a valid code, a door open too long (DOTL) timer is started and if the door is not closed again within the time determined by P454E (Area "A"), P455E (Area "B:") or P456E (Area "C") a 24Hr alarm will be created. The control function to output mapping is defined at addresses P181E through P188E for Area "A".

P454E	1-999E	Area "A" door open too long time period - default 10 sec
P455E	1-999E	Area "B" door open too long time period - default 10 sec
P456E	1-999E	Area "C" door open too long time period - default 10 sec

230V MAINS FAIL REPORTING

P460E	1-99E	Delay Mains Fail Report - where the option value between 0 and 99 represent time delays from 0 to 99 minutes. A value of 0 will result in an instant report of mains failure (Default = 60)
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REPORT DELAY ON ZONES

P450E	1-99E	Report Delay on Zones - this delay pauses the zone reporting of alarms via the communicator for the programmed period (0 = No delay, 1-99 seconds). If the alarm is reset before this delay expires no alarms will be reported.
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PROGRAMMING RADIO DETECTORS

ENROLLING RADIO DETECTORS - P501E to P516E

This block of 16 addresses is where radio PIR's and other wireless detectors are enrolled into the Elite and assigned to zones. Assigning a zone as radio at addresses P332E & P352E will enable this function and disable the zone input terminals for that specific zone on the pcb.

To load a radio detector whilst in installer program mode, for example Zone 1, press P501E. The keypad will beep at 1 second intervals and the green learn mode LED on the Radio receiver board (RX-16) will flash on & off. Trigger the detector you wish to enrol at this address (Zone 1) The keypad will stop beeping and the receiver learn LED will go out when the detectors code has been stored. Repeat this sequence for all of the radio detectors moving through the addresses which correspond to the zones you require.

P501E	Enrol Radio Detector Zone 1
P502E	Enrol Radio Detector Zone 2
P503E	Enrol Radio Detector Zone 3
P504E	Enrol Radio Detector Zone 4
P505E	Enrol Radio Detector Zone 5
P506E	Enrol Radio Detector Zone 6
P507E	Enrol Radio Detector Zone 7
P508E	Enrol Radio Detector Zone 8
P509E	Enrol Radio Detector Zone 9
P510E	Enrol Radio Detector Zone 10
P511E	Enrol Radio Detector Zone 11
P512E	Enrol Radio Detector Zone 12
P513E	Enrol Radio Detector Zone 13
P514E	Enrol Radio Detector Zone 14
P515E	Enrol Radio Detector Zone 15
P516E	Enrol Radio Detector Zone 16

SET RADIO DETECTOR OPTIONS - P521E - P536E

This block of addresses is used to assign additional functions to the radio detectors including a low battery indication in the case of some selected detectors. Always ensure that you select only one option as if more than one option is selected the lowest number option will always take precedence i.e. if option 3 & 6 were selected then the reed switch functions in option 6 will not be recognized because option 3 will be the one that applies to the zone.

P521E	1E	NESS 24 bit low battery
	2E	NESS Radio Reed Switch
	3E	CROW radio PIR battery low.
	4E	VISIONIC radio PIR(Legacy) Battery low and tamper.
	5E	ELECTRONICS LINE radio PIR(Cougar).Battery low and tamper.
	6E	CROW radio reed switch.
	7E	MERLIN PIR (non-supervised)
	8E	VISIONIC POWERCODE PIR (non-supervised)

Where P521E assigns options to the radio detector at zone 1, P522E assigns options to the radio detector at zone 2 etc.

P521E	Radio detector zone 1 options	P529E	Radio detector zone 9 options
P522E	Radio detector zone 2 options	P530E	Radio detector zone 10 options
P523E	Radio detector zone 3 options	P531E	Radio detector zone 11 options
P524E	Radio detector zone 4 options	P532E	Radio detector zone 12 options
P525E	Radio detector zone 5 options	P533E	Radio detector zone 13 options
P526E	Radio detector zone 6 options	P534E	Radio detector zone 14 options
P527E	Radio detector zone 7 options	P535E	Radio detector zone 15 options
P528E	Radio detector zone 8 options	P536E	Radio detector zone 16 options

ENROLLING RADIO KEYS - P541E - P556E

In the Elite V5 we refer to wireless pendant transmitters as "Radio Keys". Because the Elite recognises each button as a separate function or user we refer to each button or user separately in that if you are loading a three button radio key, you would actually be enrolling 3 separate radio users. It is possible to enrol several radio users as one where you are able to program the transmitter code of the radio key (usually via dip switches) to key them alike. Where you can not program the transmitter code of the radio keys you must enrol them as separate users. For example, where you are using the NESS 3 button radio key you can enrol a maximum of 5 radio keys into the system as each radio key will take up 3 address lines, one for each of the three buttons.

Radio users are enrolled in the same way as Radio Detectors. Press the program key then the address then the ENTER key then trigger the radio Key with the button you wish to load at that address.

P541E Enrol Radio user # 1
P542E Enrol Radio user # 2
P543E Enrol Radio user # 3
P544E Enrol Radio user # 4
P545E Enrol Radio user # 5
P546E Enrol Radio user # 6
P547E Enrol Radio user # 7
P548E Enrol Radio user # 8
P549E Enrol Radio user # 9
P550E Enrol Radio user # 10
P551E Enrol Radio user # 11
P552E Enrol Radio user # 12
P553E Enrol Radio user # 13
P554E Enrol Radio user # 14
P555E Enrol Radio user # 15
P556E Enrol Radio user # 16

RADIO KEY OPTIONS 1st Set - P561E - P576E

In the same way that permissions are set for user codes, Radio Keys are also assigned permissions which determine their functionality.

P561E **1E** Radio user #1 has Area "A" permissions (Default all)
2E Radio user #1 has Area "B" permissions
3E Radio user #1 has Area "C" permissions
4E Radio user #1 will arm
5E Radio user #1 will disarm
6E Radio user #1 will turn Monitor Mode on
7E Radio user #1 will turn Monitor Mode off
8E Radio user #1 is disabled during alarm state

Option 1 **Radio user #1 has Area "A" permissions** - The functions set by options 4-7 will be active in Area "A"

Option 2 **Radio user #1 has Area "B" permissions** - The functions set by options 4-7 will be active in Area "B"

Option 3 **Radio user #1 has Area "C" permissions** - The functions set by options 4-7 will be active in Area "C"

Option 4 **Radio user #1 will arm** - When this option is enabled, radio user #1 will arm which ever area is assigned by options 1-3

PROGRAMMING RADIO OPTIONS cont

- Option 5** **Radio user #1 will disarm** - When this option is enabled, radio user #1 will disarm which ever area is assigned by options 1-3
- Option 6** **Radio user #1 will turn Monitor Mode on** - When this option is enabled, radio user #1 will turn Monitor Mode on in which ever area is assigned by options 1-3
- Option 7** **Radio user #1 will turn Monitor Mode off** - When this option is enabled, radio user #1 will turn Monitor Mode off in which ever area is assigned by options 1-3
- Option 8** **Radio user #1 is disabled during alarm state** - When this option is enabled, radio user #1 can not be used to reset an alarm, i.e. it must be reset at the keypad.

Where P561E sets options for radio user #1, P562 sets options for radio user #2 etc

P561E	Radio user #1 options	P569E	Radio user #9 options
P562E	Radio user #2 options	P570E	Radio user #10 options
P563E	Radio user #3 options	P571E	Radio user #11 options
P564E	Radio user #4 options	P572E	Radio user #12 options
P565E	Radio user #5 options	P573E	Radio user #13 options
P566E	Radio user #6 options	P574E	Radio user #14 options
P567E	Radio user #7 options	P575E	Radio user #15 options
P568E	Radio user #8 options	P576E	Radio user #16 options

RADIO KEY OPTIONS 2nd Set - P581E - P596E

- | | |
|--------------|--|
| P581E | 1E Radio user #1 turns control function on
2E Radio user #1 turns control function off (Toggles if 1 on)
3E Radio user #1 turns output on
4E Radio user #1 turns output off (Toggles if 3 ON)
5E Radio user #1 Spare
6E Radio user #1 is instant panic
7E Radio user #1 is delayed panic (1.5 sec)
8E Radio user #1 NESS 24 bit radio key battery low |
|--------------|--|
- Option 1** **Radio user #1 turns control function on** - When this option is enabled, the radio user will turn on the Control Function as if it were operated from the keypad.
- Option 2** **Radio user #1 turns control function off** - When this option is enabled, the radio user will turn the control output off as if it were operated from the keypad. (Dependant on control options)
- Option 3** **Radio user #1 turns output on** - When this option is enabled, the radio user will turn on the output as assigned by P601E.
- Option 4** **Radio user #1 turns output off** - When this option is enabled, the radio user will turn off the output as assigned by P601E. This function is only valid when there is no reset time assigned to the output in question.
- Option 5** **Spare.**
- Option 6** **Radio user #1 is instant panic** - When this option is enabled, the radio user will produce an instant panic.
- Option 7** **Radio user #1 is delayed panic** - When this option is enabled, the radio user will produce a delayed panic after transmitting for 1.5 seconds.
- Option 8** **Radio user #1 NESS 24 bit radio key battery low** - This option is used to enable the low battery reporting feature of the NESS 24 bit 3 button radio key.

MAPPING RADIO USERS TO OUTPUTS

MAPPING RADIO USERS TO OUTPUTS - P601E to P616E

This block of addresses is used to map radio users to outputs in conjunction with P581E - P596E. All output modifiers such as reset timers and lock out functions are maintained and will determine the behaviour of the assigned output.

P601E	1-8E	Radio user #1 to output 1-8 - Where options 1-8 represent outputs 1-8
P602E	1-8E	Radio user #2 to output 1-8 - Where options 1-8 represent outputs 1-8
P603E	1-8E	Radio user #3 to output 1-8 - Where options 1-8 represent outputs 1-8
P604E	1-8E	Radio user #4 to output 1-8 - Where options 1-8 represent outputs 1-8
P605E	1-8E	Radio user #5 to output 1-8 - Where options 1-8 represent outputs 1-8
P606E	1-8E	Radio user #6 to output 1-8 - Where options 1-8 represent outputs 1-8
P607E	1-8E	Radio user #7 to output 1-8 - Where options 1-8 represent outputs 1-8
P608E	1-8E	Radio user #8 to output 1-8 - Where options 1-8 represent outputs 1-8
P609E	1-8E	Radio user #9 to output 1-8 - Where options 1-8 represent outputs 1-8
P610E	1-8E	Radio user #10 to output 1-8 - Where options 1-8 represent outputs 1-8
P611E	1-8E	Radio user #11 to output 1-8 - Where options 1-8 represent outputs 1-8
P612E	1-8E	Radio user #12 to output 1-8 - Where options 1-8 represent outputs 1-8
P613E	1-8E	Radio user #13 to output 1-8 - Where options 1-8 represent outputs 1-8
P614E	1-8E	Radio user #14 to output 1-8 - Where options 1-8 represent outputs 1-8
P615E	1-8E	Radio user #15 to output 1-8 - Where options 1-8 represent outputs 1-8
P616E	1-8E	Radio user #16 to output 1-8 - Where options 1-8 represent outputs 1-8

DEFINING TIME ZONES - P681E - P704E

This block of addresses is used to define the time zones used by outputs, users and the Auto Setting feature etc. Time zones require a start and a finish time with the effective window as the difference between start and finish. For this reason the finish time value must be higher than the start value. All times are set in 24 hour clock format.

P681E	1-8E	TZ1 days of the week - Where 1-7 represent the days of the week which the time zone will operate where 1 = Sunday, 2 = Monday etc. A value of 8 at this address will invert the TZ function so that instead of being effective during the window created by the start and finish times, the TZ is effective during the times outside the window set by the start and finish times.
P682E	0000 - 2359E	TZ1 Start time - This is the time when the TZ will start. Use 24 hour format. (HHMM)
P683E	0000 - 2359E	TZ1 Finish time - This is the time of day when the TZ will finish. The finish time must be greater than the start time. Use 24 hour format. (HHMM)

There are 8 time zones available and they occupy addresses P681E to P704E as each time zone requires 3 addresses to be assigned.

P681E	TZ1 Day of the week	P693E	TZ5 Day of the week
P682E	TZ1 Start Time	P694E	TZ5 Start Time
P683E	TZ1 Finish Time	P695E	TZ5 Finish Time
P684E	TZ2 Day of the week	P696E	TZ6 Day of the week
P685E	TZ2 Start Time	P697E	TZ6 Start Time
P686E	TZ2 Finish Time	P698E	TZ6 Finish Time
P687E	TZ3 Day of the week	P699E	TZ7 Day of the week
P688E	TZ3 Start Time	P700E	TZ7 Start Time
P689E	TZ3 Finish Time	P701E	TZ7 Finish Time
P690E	TZ4 Day of the week	P702E	TZ8 Day of the week
P691E	TZ4 Start Time	P703E	TZ8 Start Time
P692E	TZ4 Finish Time	P704E	TZ8 Finish Time

PROGRAMMING DAYLIGHT SAVING

PROGRAMMING DAYLIGHT SAVING ADJUSTMENTS - P712E - P717E

Given that your Elite V4 controller has a real time clock compliant with minutes & hours of the day, days of the week and months of the year, it is only reasonable to assume automatic adjustments for daylight saving. This block of addresses provides the Elite V4 with the information required to perform the daylight saving adjustments as required.

- P712E 0-5E **Daylight Saving Start Sunday** - This is the Sunday number in the month that daylight saving will begin (values of 1-5 are allowed).
- P713E 0-12E **Daylight Saving Start Month** - This is month in which the above Sunday will occur.(Values of 1-12 are allowed)
- P714E 0-24E **Daylight Saving Start Hour** - This is the hour that daylight savings will begin (values of 0-24 are allowed).
- P715E 0-5E **Daylight Saving End Sunday** - This is the Sunday number in the month that daylight savings will end (values of 1-5 are allowed).
- P716E 0-12E **Daylight Saving End Month** - This is the month in which the Sunday number will occur (values of 1-12 are allowed).
- P717E 0-24E **Daylight Saving End Hour** - This is the hour that daylight savings will end (values of 0-24 are allowed).

ZONE RESPONSE TIME SETTING

- P709E **Zone Response Time Setting** - 1-32E. Default = 6

The input response count sets the total time the zones must be in alarm before the state is recognised by the panel. A count of 1 = 45ms. The default setting of 6 therefore results in a zone response time of 270ms.

DYNAMIC DIAGNOSTIC ONLY DATA

DYNAMIC DATA - P720E - P725E

The addresses in the block are used to provide real time feedback from the panel as to the current status. These are intended as view only addresses and only available in installer program mode.

- P720E **Time Zones active at this time** - This address displays the time zones which are currently active in the system.
- P721E **Misc System Flags** - This address shows the status of up to 8 system operating parameters as follows
- 1 -7 = Spare
 - 8 = Daylight Saving active

- P722E **Active Outputs** - This option will cause the keypad to display the outputs which are currently turned on, i.e.active
- P723E **Display keyboard address** - This option will cause the keypad you are operating to display it's address from 1-8. This feature is only available in installer program mode.
- P724E **Display partitions assigned to this keypad** - This option will cause the keypad you are operating to display the Areas to which it has been assigned permissions.
- P725E **Display software version** - This address will cause the panel software version to be flashed back at the keypad.

START EVENT PRINTING

- P726E **Start Event Printing** - The alarm system stores the last 63 events in a printer buffer. These events include time, date and an event description. To print the events, assuming the Arrowhead serial card is plugged into the panel and connected to a printer with a RS232 input, a user with permission to print (e.g. P49-P72 option 4) enters client program mode (P-code-E, program LED on solid), then enters P726E which will send the buffer data to the printer.

SETTING THE REAL TIME CLOCK

SETTING THE REAL TIME CLOCK - P730E - P734E

This block of addresses is used to set the internal real time clock used by the time zone functions.

P730E	1-7E	Set day of the week - where values of 1-7 represent Sunday to Saturday (Sunday = 1)
P731E	0000 - 2359E	Set time - Use 24 hour format
P732E	1-31E	Set day of the month - where values of 1-31 represent days in the month.
P733E	1-12E	Set Month
P734E	0-99	Set Year - Where 0-99 represent years, i.e. 97 = 1997. The Elite V4 is fully 2000 compliant so values of 00 or higher will represent the year 2000 etc.

EEPROM UP/DOWN LOAD

P736E	Write to Eeprom Board - with the optional Eeprom back-up board plugged into the serial connector on the panel and the write enable link on (on the Eeprom board) entering P736E will write a copy of the panel program files to the Eeprom board.
P738E	Read from Eeprom Board - this address allows a copy of a panel program files to be downloaded into a panel (note the program files must first have been copied to the Eeprom board - refer P736E)

DE-MAPPING OUTPUTS

P740E	1-8E	DE-mapping Outputs 1-8 - This powerful option is used to DE-map or un-assign outputs from all zone and system functions. This is a particularly useful tool when reassigning outputs to special functions such as smoke detector reset etc. In addition to removing all programmed links this option will also remove the reset time and reset the output as a latch.
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RESET TO DEFAULTS

SET TO DEFAULTS - P741E - P745E

This block of addresses is used to reset sections of the programming back to defaults. Defaults are the values set when the panel was sent from the factory. Each of the addresses in this block defaults one part of the programming. To reset the entire configuration it would be necessary to call each of the addresses in turn.

P741E	Reset user codes
P742E	Reset communicator parameters
P743E	Reset Radio parameters
P744E	Reset all other parameters
P745E	Clear event memory

WALK TEST MODE

P735E	Walk test mode. When in installation program mode entering P735E will toggle walk test mode ON/OFF. When in walk test mode the zone LEDs will latch on at the keypad display. To reset the display enter 735E to clear the display and turn off walktest mode.
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COMMAND CONTROL - PROGRAMMING

Another powerful feature available from your Elite V5 control communicator is Command Control. This feature is a remote control facility which allows valid users to access the panel via a standard touch tone telephone and check the set / unset status of each of the areas and operate each of the eight outputs.

The Command Control feature is only available on panels fitted with one of the Speech modules (see page 16) as the voice prompts which guide you are stored on this module. In some installations voice message storage space will be shared between the speech dial alarm event messages and the command control status messages.

There are five program addresses which must be defined before Command Control can be effective, in addition to the process of recording the actual status messages. These program addresses are;

- P261E code E **4 Digit Code for Output Command Control** - This is the code used to access the Output Command menu. A number from 1-8 is entered after this code to take control of an output 1-8 (for this feature to work, option 5 at addresses P101E to P108E must be turned on).
- P262E code E **4 Digit Code for Area "A" Command Control** - This is the code used to access the Area "A" Command menu.
- P263E code E **4 Digit Code for Area "B" Command Control** - This is the code used to access the Area "B" Command menu.
- P264E code E **4 Digit Code for Area "C" Command Control** - This is the code used to access the Area "C" Command menu.
- P680E 1-9E **Status Message Starting Number** - This value determines the place in the speech module where the command control status messages start. On installations where the speech module is also used to store alarm event messages, the command control status messages are stored in sequence from the point where the last alarm event message finishes. For example, if there are 3 alarm event message stored in the speech module, the Command Control status messages will start at #4. In this example a value of 4 would be entered at P680E Default = 1

RECORDING STATUS MESSAGES

The process for recording Command Control status messages is the same as that for recording alarm event messages except for the following critical difference. The speech module command control status message storage is divided into twenty two (22) separate areas or "slots" Each of these slots is assigned a status from the possible 22 as listed below. The content of the messages is programmable but the order in which the panel expects to find the correct message for the relevant voice prompts is pre-defined, eg if the panel was giving the status of output 1 as being "ON", it would select message number 7.

- | | |
|----|-------------------|
| 1 | Area "A" Armed |
| 2 | Area "A" Disarmed |
| 3 | Area "B" Armed |
| 4 | Area "B" Disarmed |
| 5 | Area "C" Armed |
| 6 | Area "C" Disarmed |
| 7 | Output 1 On |
| 8 | Output 1 Off |
| 9 | Output 2 On |
| 10 | Output 2 Off |
| 11 | Output 3 On |
| 12 | Output 3 Off |
| 13 | Output 4 On |
| 14 | Output 4 Off |
| 15 | Output 5 On |
| 16 | Output 5 Off |
| 17 | Output 6 On |
| 18 | Output 6 Off |
| 19 | Output 7 On |
| 20 | Output 7 Off |
| 21 | Output 8 On |
| 22 | Output 8 Off |

To record your individual status messaged into the speech module you follow the same procedure as that for the alarm event messages except

The messages must be recorded in the storage slots assigned that particular status

For example, if you are installing a system with a Command Control requirement to remotely set and unset Area "A" (Main Alarm) as well as turn lighting on and off which is controlled by output #2, you must record appropriate status messages as follows

Slot 1 *"Main alarm set"*
Slot 2 *"Main Alarm unset"*
Slot 9 *"Lights on"*
Slot 10 *"Lights off"*

You must leave blank messages at recording slots which are not to be used. In this example blank messages must be left at slots 3,4,5,6,7 & 8. Blank messages are created by pressing the record button on the speech programmer for only a moment, then releasing the button without recording an actual message. As soon as the record led comes on on the programmer you can release it again.

Another example might be a system with two areas "A" (Office Alarm) and "B" Factory Alarm) as well as controlling lighting via output #1 and a furnace controlled via output 4. For this system you would record appropriate status messages as follows

Slot 1 *"Office Alarm set"*
Slot 2 *"Office Alarm unset"*
Slot 3 *"Factory Alarm set"*
Slot 4 *"Factory Alarm unset"*
Slot 7 *"Lights on"*
Slot 8 *"Lights off"*
Slot 13 *"Furnace on"*
Slot 14 *"Furnace off"*

In this example blank messages would be recorded at slots 5,6,9,10,11 & 12

Both of these examples have no alarm event messages to confuse the message recording slots. Alarm event messages used when the communicator reports in speech dial format may be stored at message slots from 1-8. Alarm event messages are recorded in order starting at slot #1 so if there are three event messages then the first Command Control status message will be stored at slot #4. In this example because there are three alarm event messages stored in record slots 1,2, & 3, the 22 Command Control status messages must therefore be stored in record slots 4-26.

The table of record slots versus status messages show on page 39 must be amended to suit each site where varying numbers of speech dial alarm event messages are required. In these cases the 22 status messages are simply shuffled down the order by the number of alarm event messages required for each job on an individual basis. For example, if there are two alarm event messages they would be stored at slots 1 & 2, therefore the status message for Area "A" set would be stored at slot 3 (2+1) and the status message for Area "A" unset would be stored at slot 4 (2+2). Accordingly if a status message was required for output #5 on it would be stored at slot 17 (2+15) with the message for output #5 off stored at slot 18 (2+16).

NOTE: The starting slot for the status messages must be programmed at P680E as per page 41

COMMAND CONTROL - OPERATION

Elite Command Control provides a powerful, easy to use remote telephone control of your control communicator. User operation of the Elite Command Control has been designed to be as simple and user friendly as possible with recorded voice status messages to prompt you through the 11 menu options, providing a status report of the section of the system which you are currently commanding. Because these status messages are recorded on-site they can be customised to suit each specific application. For example, rather than the status message saying "Output #1 off" you can record a message which describes exactly what is being controlled like "Factory heating off"

In the previous section you would have seen how you program access codes for each of the Command Areas and outputs. These are the codes you will enter over the phone to access the command menus. In order to start the Command Control feature you must first ring the phone number which the panel is connected to. The panel may be set up to answer after a specific number of rings or it may be set-up to use a fax defeat option. Either way, when you ring the phone number and finally get through to the Elite, the first thing you will hear over the phone is a burst of modem tone. The panel produces this tone in order to communicate with the upload/download option. After 5 seconds this tone will stop and you must enter the access code which is associated with the Command menu option you wish to access. *Remember, the code you enter will determine which menu option you access.* If you miss the pause, the communicator will repeat the modem tone and then again pause for 5 seconds looking for your access code. This process will be repeated 4 times before hanging up if no valid code is received. When entering codes or other information in Command Control the "#" key acts as a "Clear" button

When you have entered the required 4 digit access code the communicator will reply with the status message associated with that menu option. For example, let's say we have a code of 2045 programmed at address P262E, we would use this code to set and unset Area "A" of the alarm system. If we had a status message recorded at slot 1 which said "Main alarm set" and one at slot 2 which said "Main alarm unset" When we ring through to the panel and we enter the code 2045, we would hear the message "Main alarm set" or "Main alarm unset" depending on the actual status of Area "A"

Once you have reached the desired menu and the status message has informed you of the actual state, you can use the "*" key to toggle the option on & off or set and unset, eg in our example above, code 2045 accesses the Area "A" menu and let's say the status message we received was "Main alarm unset" If we press the "*" key, Area "A" will be armed with exit delay etc and we would receive a status message "Main alarm set". If we had accessed one of the output menus we could turn ancillary devices like lighting etc on and off with the "*" key in the same way.

While you are on-line with the panel you can move between menu options by entering the code of the option you want to move to. For example in the examples above, we had a code of 2045 programmed to give us access to Area "A". Let's say we have a code of 4321 programmed to access Output #1 which is interfaced to the factory lighting. While we are on-line in the Area "A" menu which we accessed with the 2045 code, if we enter the 4321 code we will be transported to the Output #1 menu and would hear the status message which had been programmed for the state of the factory lights (Note; For output control you must enter in the 4 digit code eg 4321 followed by the output number you wish to control, in this case 1).

As in the previous example where we used the "*" key to toggle the alarm between set and unset, we can use the "*" key to toggle the output on and off. As you toggle the output on and off you would hear the status message "Factory lights on" and "Factory lights off".

To end a Command Control session simply hang up the phone. The communicator is monitoring the line at all times and 15 seconds after the last key press it will automatically hang up the line. This 15 second timer is active during the whole command control process so a period of 15 seconds without a key press will cause the panel to hang-up. The "#" key is used as a "Clear" button at all stages during command control so if you make a mistake or enter your code incorrectly, all you have to do is press the # key and start again.

LOCAL COMMAND CONTROL OF OUTPUTS

If a command control code for outputs is programmed (P261E) and the output/s are allowed to be locally controlled (P101-P108, option 6) then entering the 4 digit code at a keypad will blank the display and the zone LEDs will now indicate the output status eg if output 1 is on zone 1, LED will be on. By now pressing the "1" button, output 1 can be turned off provided it is allowed to be locally controlled.

COMMUNICATOR INTRODUCTION

The communicator facility of this version 5 Elite controller has been designed to provide optimum flexibility in the way in which alarm events are reported. This flexibility includes options of reporting a central monitoring station using Ademco Contact ID format, a domestic reporting option using alternating siren tones, a format for reporting alarms to an alpha numeric pager and a powerful speech dialler.

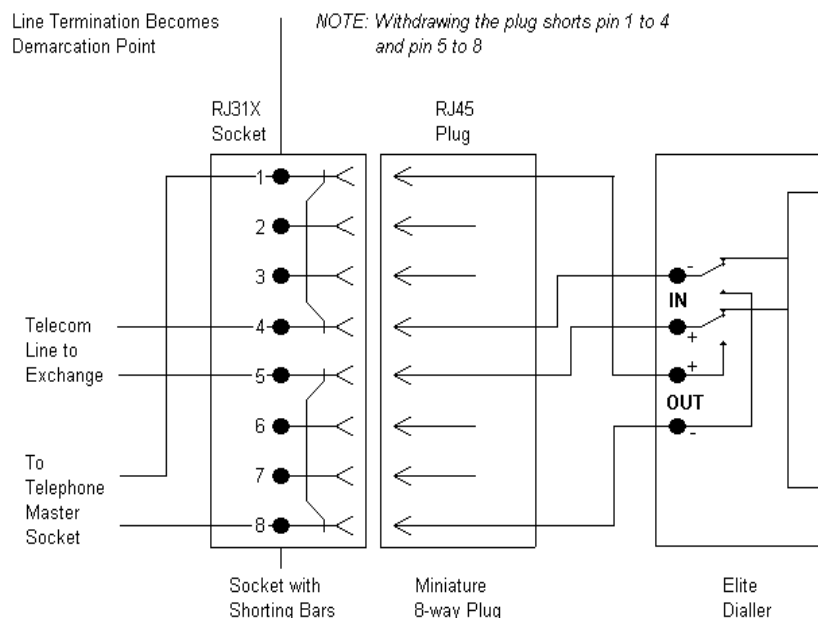
In accordance with the statutory requirements of the Telepermit standards we must bring the following points to your attention;

A readily accessible disconnect device shall be incorporated into the 230V fixed wiring.

In the event of any problem with this device, the by-pass switch should be operated. The user is to then arrange with the installer of the device to make the necessary repairs. Should the matter be reported to Telecom as a wiring fault, and the fault be proven to be due to the alarm panel, a call out charge will be incurred.

Should the Elite control panel require relocation the Telecom connection must be disconnected before the power is disconnected. Similarly when reconnecting the dialler, it is necessary to power up the Elite before connecting the dialler to the Telecom Network.

Connection to the Telecom network should be made in accordance with Access Standards Newsletter #65 dated November 1993. This connection is to be readily accessible to allow disconnection in the event of a fault. An example of this connection method is shown below.



NOTE: *The telephone line must not enter the cabinet through the same cable entry hole as any 230 volt mains cables. A separate cable entry must be used for 230 volt cabling*

When using one of the knock-outs around the side of the cabinet for supply entry, a suitable bushing must be used where the supply cables pass through a knock-out.

The transmit level from this device is set at a fixed level and because of this there may be circumstances where this device does not give its optimum performance. Before reporting such occurrences as faults, please check the line with a standard Telepermitted telephone, and do not report a fault unless the telephone performance is impaired.

This automatic dialling equipment shall not be set up to make calls to the Telecom "111" Emergency Service

COMMUNICATOR REPORTING FORMATS

The flexibility of the system is further extended by the way in which you can assign different reporting formats to each of the **six** possible phone numbers.

1 **Ademco Contact ID Reporting Format** - This is a high speed, DTMF format used to report alarm events to a commercial monitoring station equipped with a computerised receiver. This format can only be kissed-off by the monitoring company receiver.

2 **Arrowhead Domestic Dial Format** - This format has been developed by Arrowhead to provide a basic, low cost means of reporting alarm events up to 6 private phone numbers which does not require any additional receiving equipment. Domestic dial will only report zone activations, panic alarms and battery low alarms. When the communicator uses this domestic dial format to report an event an alternating siren type, alarm tone will be heard over the telephone. This alternating alarm tone continues for 5 seconds followed by a 5 second pause in which the communicator is looking for a kiss-off. If a kiss-off is not received another round of alarm tones will be sent followed by another pause to check for kiss-off. This routine is repeated 4 times, at which point if a kiss-off has not been received, the communicator will hang up and dial the next phone number. To kiss-off the communicator during the pause period, all you do is press one of the buttons on your touch tone telephone.

3 **Pager Format** - This format is used to report the same alarm events as the Domestic Dial format above but the report is sent to an Alpha / Numeric pager. The event report is in the form of a 12 bit message which consists of a unique 4 digit account code, a 3 digit event code and a 3 digit identifier extension. The account code is used to identify the panel which is calling, the event code is used to identify the type of alarm event and the extensions used to identify the zone or user number. The spaces between the account code, event code and extension make up the 12 bits of the message. Note- There is no kiss-off required in Pager Format reporting.

As an example, a pager which displays this message;

1 2 3 4 1 3 0 0 0 1

Would have received an alarm message from alarm 1234 (1234) that there is a burglar activation (130) on zone one (001)

The event codes and their meanings are listed on page 52.

4 **Speech Dial Format** - This format is similar to the Arrowhead Domestic Dial format in that it reports alarm events via private phone numbers and is kissed-off by pressing a button on the telephone but there is one important difference. This format will report the alarm events using a combination of up to eight pre-recorded voice messages. These messages are recorded directly into the speech module which is a "plug on" option to your Elite V4 control communicator. Speech modules are available in versions of 20 second and 90 second recording capacity.

When an alarm event is reported using the Speech Dial format the messages assigned at addresses P660E to P679E are played and like the Domestic Dial format a 5 second pause follows in which the communicator is looking to be kissed-off. If not kissed-off the communicator will repeat the messages and pause again. This routine is repeated 4 times at which point, if a kiss-off has not been received the communicator will hang up and dial the next phone number. To kiss-off the communicator during the pause period all you do is press one of the buttons on your touch tone telephone.

If a kiss-off is not received from any of the phone numbers dialled, the communicator will make a maximum of twenty calls and shut down.

*The communicator will also shut down if the control panel is reset with a valid code before a kiss-off is received
EXCEPT reporting in Contact ID format.*

COMMUNICATOR REPORTING SCENARIOS

COMMUNICATOR REPORTING SCENARIOS

In order to provide you with the most convenient way of assigning one or more of these possible formats to each alarm event, we have developed a unique system called "Reporting Scenarios". These Scenarios define what action is taken by the communicator for each alarm event, eg.alternate call numbers 1&2 until one is kissed-off or dual report to numbers 1&2 until both kissed-off. There are four individual scenarios available each with up to 16 possible steps. The method of programming the scenarios is to associate a phone number with an action for kiss-off and or no kiss-off. Phone numbers are assigned values from 1 to 6 which leaves 4 values for the actions.

Scenario Options

- 1 = Call Telephone Number 1
- 2 = Call Telephone Number 2
- 3 = Call Telephone Number 4
- 5 = Call Telephone Number 5
- 6 = Call Telephone Number 6
- 7 = Return to step 1 until all numbers are kissed-off
- 8 = Return to previous step if not kissed-off
- 9 = Stop if kissed-off
- 0 = Stop whether kissed-off or not kissed-off

Example 1 (alternate reporting) 1 9 2 9 7

In this example we have defined a scenario with five actions as follows. The dialler will alternate between phone numbers 1 & 2 until kissed off.

Step #	Option #	Action
1	1	Call phone number 1
2	9	Stop if kissed-off
3	2	If not kissed-off call phone number 2
4	9	Stop if kissed-off
5	7	Return to step 1 until all numbers are kissed-off

Example 2 (dual reporting) 2 4 7

In this example we have defined the three following actions. The dialler will alternate between phone numbers 1 & until both numbers have been kissed off.

Step #	Option #	Action
1	2	Call phone number 2
2	4	Call phone number 4
3	7	Return to step 1 until all numbers are kissed-off

If the last step in a scenario is reached and there is no instruction to define what the communicator is to do it will stop. You must therefore include either 7 or 8 if you want the dial routine or part of the routine repeated.

COMMON REPORTING SCENARIOS

To assist you in programming your Elite communicator we have set out a number of the most common reporting scenarios for you to copy. Because the defaults of the panel assign Reporting Scenario #1 to all zone activations, tamper activations and system events etc it is advisable to make the required alterations to Scenario #1 (P211E) should you require a different dialling sequence.

Once you decide what is the most appropriate scenario for each installation, choose it from the following list, or create it from scratch and program it at Address P211E. Any "Special" zones or events can have other scenarios created and assigned on an individual basis as required.

Scenario	Code	Actions
Std Monitoring Company	1 9 2 9 7	Alternate calling until kissed-off
4 Number Speech Dial	1 9 2 9 3 9 4 9 7	Call 4 numbers in sequence until kissed-off
Plant Monitoring via Pager	1 0	Call pager once then stop(kiss-off not required)
Dual Reporting	1 7 2 7	Call number 1 & if kissed off call number 2
Monitoring Co if Speech Not Kissed-off	1 9 2 9 3 8	If no kiss-off from speech dial number, (phone #. 1 & 2) then dial monitoring company until kissed off (Phone #. 3)

COMMUNICATOR REPORTING SCENARIOS - P211E - P214E

P211E 1-16E **Reporting Scenario #1 options** (See options on page 46)Default=1 9 2 9 7
P212E 1-16E **Reporting Scenario #2 options** (Default = 0)
P213E 1-16E **Reporting Scenario #3 options** (Default = 0)
P214E 1-16E **Reporting Scenario #4 options** (Default = 0)

MAXIMUM DIAL ATTEMPTS PER SCENARIO

P215E Maximum dialling attempts for Scenario 1-Value 1-99 (Default=10)
P216E Maximum dialling attempts for Scenario 1-Value 1-99 (Default=10)
P217E Maximum dialling attempts for Scenario 1-Value 1-99 (Default=10)
P218E Maximum dialling attempts for Scenario 1-Value 1-99 (Default=10)

PROGRAM TELEPHONE NUMBERS - P221E - P226E

There are 16 characters available in each of the telephone number strings including the special codes

P221E 1-16E **Telephone Number 1** - where options 1-16 represent up to 16 digits
P222E 1-16E **Telephone Number 2** - where options 1-16 represent up to 16 digits
P223E 1-16E **Telephone Number 3** - where options 1-16 represent up to 16 digits
P224E 1-16E **Telephone Number 4** - where options 1-16 represent up to 16 digits
P225E 1-16E **Telephone Number 5** - where options 1-16 represent up to 16 digits
P226E 1-16E **Telephone Number 6** - where options 1-16 represent up to 16 digits

From time to time it is necessary to program special codes within the telephone number string. These codes include a 2.5 second pause, the * and # characters and a new option called "Wait for 2nd dial tone" Use the following table to select and program special characters as required.

Character	Button	Displayed As
2.5 sec pause	CONTROL	Control
* Character	MEMORY	Memory
# Character	PANIC	Line
Wait for 2nd Dial Tone	ARM	Armed

PROGRAMMING COMMUNICATOR OPTIONS

DEFINE REPORTING FORMATS - P231E - P236E

This group of addresses is used to define which format the communicator will use when contacting each of the six phone numbers on an individual basis. For example phone number 1 may be a speech dial report to a domestic home with numbers 2 and 3 reporting in Contact ID to a monitoring company

P231E	1-8E	Define Reporting Format for Phone Number 1	1 = Ademco Contact ID (Default) 2 = Domestic Alarm Tone 3 = Pager 4 = Speech Dialler 5 = Spare 6 = Monitor "Call Progress" (Default) 7 = Spare 8 = Spare
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Option 1 **Ademco Contact ID** - Use Contact ID format to report alarm and system events to a monitoring companies receiving equipment.

Option 2 **Domestic Alarm Tone** - Use Arrowhead "Domestic" format to report alarm events. This format uses alternating alarm tones to report and can be kissed-off by pressing any digit key on a touch tone phone.

Option 3 **Pager** - Report alarm events using Arrowhead "Pager" format. This format utilises Telecom's 026 pager network or other public subscriber networks like Answerscan etc, to post numeric messages to a compatible pager.(NOTE:The client account number should not start with a "0")

When an event is received by a pager it will display the alarm system account code followed by and event code followed by a zone or user designation. For example - 1234 130 004 displayed on a pager would correspond to a zone 4 activation from a system with account code 1234. The event codes are listed in the Communicator Program Summary section of this manual.

Option 4 **Speech Dialler** - Report alarm events by using the optional add-on speech dialler module. This module is available is either 20 or 90 second versions can be kissed-off by pressing any digit key on a touch tone phone. The first 8 recording slots may be reserved for alarm messages which are mapped to events at addresses P660E to P676E

The Elite "**Command Control**" feature utilises the same speech dialler module to provide voice prompted control and status reporting of your alarm system via a standard touch tone telephone. These voice prompts are stored at recording slots which follow in order on from the alarm event messages. The 90 second speech module is particularly useful where a speech dialler is used to report alarm events and Command Control is used to control a large number of functions such as setting and unsetting on an area basis and operating outputs to control lighting, or heating etc.

Option 5 **Spare** - This option is reserved for future developments

Option 6 **Monitor Call Progress** - When this option is enabled, the Elite communicator monitors the call progress to determine if the destination phone number is ringing, engaged or disconnected. As a result, if the number is engaged or disconnected the communicator will move on to the next number immediately rather than timing out after a pre-determined wait period.

Option 7 **Spare** - This option is reserved for future developments

Option 8 **Spare**

P232E	1-8E	Define Reporting Format for Phone Number 2	(Default 1&6)
P233E	1-8E	Define Reporting Format for Phone Number 3	
P234E	1-8E	Define Reporting Format for Phone Number 4	
P235E	1-8E	Define Reporting Format for Phone Number 5	
P236E	1-8E	Define Reporting Format for Phone Number 6	

ZONE ACTIVATION SCENARIO MAPPING - P241E - P256E

This group of addresses is used to map activations from each of the 16 possible alarm zones to one of the 4 possible reporting scenarios. If a value of zero (0) is assigned at an address in this block, alarms from that zone will not be reported by the communicator.

P241E	1-4E	Zone 1 Activations mapped to Scenario 1-4 - Default 1
P242E	1-4E	Zone 2 Activations mapped to Scenario 1-4 - Default 1
P243E	1-4E	Zone 3 Activations mapped to Scenario 1-4 - Default 1
P244E	1-4E	Zone 4 Activations mapped to Scenario 1-4 - Default 1
P245E	1-4E	Zone 5 Activations mapped to Scenario 1-4 - Default 1
P246E	1-4E	Zone 6 Activations mapped to Scenario 1-4 - Default 1
P247E	1-4E	Zone 7 Activations mapped to Scenario 1-4 - Default 1
P248E	1-4E	Zone 8 Activations mapped to Scenario 1-4 - Default 1
P249E	1-4E	Zone 9 Activations mapped to Scenario 1-4 - Default 1
P250E	1-4E	Zone 10 Activations mapped to Scenario 1-4 - Default 1
P251E	1-4E	Zone 11 Activations mapped to Scenario 1-4 - Default 1
P252E	1-4E	Zone 12 Activations mapped to Scenario 1-4 - Default 1
P253E	1-4E	Zone 13 Activations mapped to Scenario 1-4 - Default 1
P254E	1-4E	Zone 14 Activations mapped to Scenario 1-4 - Default 1
P255E	1-4E	Zone 15 Activations mapped to Scenario 1-4 - Default 1
P256E	1-4E	Zone 16 Activations mapped to Scenario 1-4 - Default 1

MULTIPLE ZONE REPORTING - P346E & P366E

P346E	1-8E	Zone will report multiple activations to communicator for zones 1-8 (Default ON)
P366E	1-8E	Zone will report multiple activations to communicator for zones 9-16 (Default ON)

ZONE EXCLUDE SCENARIO MAPPING - P461E - P476E

This group of addresses is used to map zone excludes (isolations) from each of the 16 possible alarm zones to one of the 4 possible reporting scenarios. If a value of zero (0) is assigned at an address in this block, excludes from that zone will not be reported by the communicator.

P461E	1-4E	Zone 1 Exclude mapped to Scenario 1-4 - Default 1
P462E	1-4E	Zone 2 Exclude mapped to Scenario 1-4 - Default 1
P463E	1-4E	Zone 3 Exclude mapped to Scenario 1-4 - Default 1
P464E	1-4E	Zone 4 Exclude mapped to Scenario 1-4 - Default 1
P465E	1-4E	Zone 5 Exclude mapped to Scenario 1-4 - Default 1
P466E	1-4E	Zone 6 Exclude mapped to Scenario 1-4 - Default 1
P467E	1-4E	Zone 7 Exclude mapped to Scenario 1-4 - Default 1
P468E	1-4E	Zone 8 Exclude mapped to Scenario 1-4 - Default 1
P469E	1-4E	Zone 9 Exclude mapped to Scenario 1-4 - Default 1
P470E	1-4E	Zone 10 Exclude mapped to Scenario 1-4 - Default 1
P471E	1-4E	Zone 11 Exclude mapped to Scenario 1-4 - Default 1
P472E	1-4E	Zone 12 Exclude mapped to Scenario 1-4 - Default 1
P473E	1-4E	Zone 13 Exclude mapped to Scenario 1-4 - Default 1
P474E	1-4E	Zone 14 Exclude mapped to Scenario 1-4 - Default 1
P475E	1-4E	Zone 15 Exclude mapped to Scenario 1-4 - Default 1
P476E	1-4E	Zone 16 Exclude mapped to Scenario 1-4 - Default 1

LOW ZONE TAMPERS SCENARIO MAPPING - P481E - P488E

This group of addresses is used to map the eight possible low zone tampers to one of the four possible reporting scenarios. If a value of zero (0) is assigned at an address in this block, low tampers from that zone input will not be reported by the communicator. Low Zone Tamper is a short circuit input.

P481E	1-4E	Low Zone 1 Tamper Alarms mapped to Scenario 1-4 - Default 1
P482E	1-4E	Low Zone 2 Tamper Alarms mapped to Scenario 1-4 - Default 1
P483E	1-4E	Low Zone 3 Tamper Alarms mapped to Scenario 1-4 - Default 1
P484E	1-4E	Low Zone 4 Tamper Alarms mapped to Scenario 1-4 - Default 1
P485E	1-4E	Low Zone 5 Tamper Alarms mapped to Scenario 1-4 - Default 1
P486E	1-4E	Low Zone 6 Tamper Alarms mapped to Scenario 1-4 - Default 1
P487E	1-4E	Low Zone 7 Tamper Alarms mapped to Scenario 1-4 - Default 1
P488E	1-4E	Low Zone 8 Tamper Alarms mapped to Scenario 1-4 - Default 1

HIGH ZONE TAMPERS SCENARIO MAPPING - P491E - P498E

This group of addresses is used to map the eight possible High zone tampers to one of the four possible reporting scenarios. If a value of zero (0) is assigned at an address in this block, high tampers from that zone input will not be reported by the communicator. High Zone Tamper is an open circuit input.

P491E	1-4E	High Zone 1 Tamper Alarms mapped to Scenario 1-4 - Default 1
P492E	1-4E	High Zone 2 Tamper Alarms mapped to Scenario 1-4 - Default 1
P493E	1-4E	High Zone 3 Tamper Alarms mapped to Scenario 1-4 - Default 1
P494E	1-4E	High Zone 4 Tamper Alarms mapped to Scenario 1-4 - Default 1
P495E	1-4E	High Zone 5 Tamper Alarms mapped to Scenario 1-4 - Default 1
P496E	1-4E	High Zone 6 Tamper Alarms mapped to Scenario 1-4 - Default 1
P497E	1-4E	High Zone 7 Tamper Alarms mapped to Scenario 1-4 - Default 1
P498E	1-4E	High Zone 8 Tamper Alarms mapped to Scenario 1-4 - Default 1

SYSTEM EVENTS SCENARIO MAPPING - P311E - P320E

This group of addresses is used to map the ten possible System Events as listed below to one of the four possible reporting scenarios. If a value of zero (0) is assigned at an address in this block, that event will not be reported by the communicator.

P311E	1-4E	Keypad Panic mapped to Scenario 1-4 - Default 1
P312E	1-4E	Battery low mapped to Scenario 1-4 - Default 1
P313E	1-4E	230v Mains failure mapped to Scenario 1-4 - Default 1
P314E	1-4E	Phone line restore mapped to Scenario 1-4 - Default 1
P315E	1-4E	Radio PIR Battery Low mapped to Scenario 1-4 - Default 1
P316E	1-4E	Radio Key Battery Low mapped to Scenario 1-4 - Default 1
P317E	1-4E	Keypad Tamper mapped to Scenario 1-4 - Default 1
P318E	1-4E	Cabinet Tamper mapped to Scenario 1-4 - Default 1
P319E	1-4E	Radio Panic mapped to Scenario 1-4 - Default 1
P320E	1-4E	Communicator Test Calls mapped to Scenario 1-4 - Default 1

REPORT DELAY ON MAINS FAIL

P460E	1-99E	Mains failure report delay 0-99 minutes - Default = 60
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AREA BASED REPORTING SCENARIOS - P322E - 327E

This group of addresses is used to define which events will be reported and also to assign these Area based events to one of the four possible scenarios

Multiple options can be assigned to the Area or partition based addresses but only one value (1-4) can be assigned to the scenario mapping addresses.

REPORT DELAY ON ZONE ALARMS

P450E 0-99E **Zone Dialler Reporting Delay** - Default = 0

This delay pauses the reporting of zone alarms for all reporting formats. This delay can be used to prevent false alarms from reporting if the alarm is cancelled before this delay expires.

AREA SPECIFIC REPORTING OPTIONS

P322E	1-8E	Area A Reporting Options - Default 1,2&4	1 = Sent Set / Unset 2 = Send Monitor On/ Off 3 = Send Unset only after activations 4 = Send Duress Alarms 5 = Enable 24hr alarms to voice/domestic 6 = Send set immediately 7 = Spare 8 = Spare
Option 1		Send Set / Unset - If this option is enabled, the communicator will report Area "A" sets and unsets following the steps as determined by the reporting scenario assigned by P323E	
Option 2		Send Monitor On / Off - If this option is enabled, the communicator will report Area "A" monitor on and monitor off events following the steps as determined by the reporting scenario assigned by P323E	
Option 3		Send Unsets only after activation - If this option is enabled, the communicator will report Area A unsets (opens) after alarm activation only. This option is often used in conjunction with alarm only reporting.	
Option 4		Send Duress Alarms - If this option is enabled, the communicator will report Duress Alarms as defined by address P197E	
Option 5		Enable 24hr Alarms to Voice/Domestic - If this option is enabled, then 24hr zone alarms will report using voice or domestic alarm tone reporting even when the alarm is unset.	
Option 6		Send Set Immediately - If the LED is Off, the communicator will report a set immediately the panel is armed. If the LED is On, the set report is sent at the expiry of the exit delay.	
Option 7		Spare	
Option 8		Spare	
P323E	1-4E	Area "A" Reports mapped to Scenario 1-4 - This option is used to map Area "A" reports as defined by P322E to one of the four possible reporting scenarios - Default 1	
P324E	1-8E	Area "B" Reporting Options - Default 1,2&4	
P325E	1-4E	Area "A" Reports mapped to Scenario 1-4 - Default 1	
P326E	1-8E	Area "C" Reporting Options - Default 1,2&4	
P327E	1-4E	Area "C" Reports mapped to Scenario 1-4 - Default 1	

SYSTEM REPORTING OPTIONS - P329E, P260E, P264E, P265E & P266E

This block of addresses is used to define a number of global system options. Multiple options may be assigned at address P260E

P329E	1-99E	Auto-Answer Rings - This options defines the number of rings before the communicator will auto-answer the incoming call. A value of zero (0) at this address will disable auto-answer. - Default = 0	
P260E	1-8E	System Options	1 = Enable Communicator 2 = DTMF or Decadic 3 = NZ style Decadic 4 = Blind Dial 5 = Send Restores 6 = Use Group code or Multiple Accounts 7 = Fax defeat 8 = Disable line monitoring

- Option 1 **Enable Communicator** - This option is used to activate the communicator hardware. If this option is not assigned, all communicator activity, including recording messages on the speech dialler module, will be disabled. - **Default = Communicator Off**
- Option 2 **DTMF or Decadic**.Selects touchtone dialling.led must be ON
- Option 3 **NZ Style Decadic** - With this option off, the decadic pulses are NZ style pulses. If the option is on, then the pulses are reversed
- Option 4 **Blind Dial** - If this option is selected, the communicator will make a dial attempt even if it can not detect a valid dial tone. If this option is not selected the communicator will seize the phone line and listen for dial tone. If dial tone is not present the communicator will release (Hang up) the line wait five seconds and repeat the process. If dial tone is still not present after 3 attempts the communicator will Blind Dial. On = Blind Dial, off = Standard Dial. - **Default = Off**
- Option 5 **Send Restores** - If this option is selected restores will be reported for all events. If this option is not selected restores will be disabled. On = Send Restores, off = No Restores. - **Default = On**
- Option 6 **Use Group Codes or Multiple Accounts** - This option is used to determine if system using multiple Areas will use Group Code reporting to one account number or report individual Area activity to individual account numbers. Option 6 on = group code and option 6 off = multiple account numbers - **Default = Off.**
- Option 7 **Fax Defeat** - This option enables fax defeat mode. When enabled the panel will look for incoming rings between 2-6 rings (inclusive). If the incoming call is then terminated the panel will answer the next incoming call within 2 rings. If another call is not established within 60 sec of the first call, the fax defeat mode is reset. For fax defeat to work the auto answer rings must be enabled by putting in a suitable ring count (eg 15).
- Option 8 **Disable Line Monitoring** -If this option is enabled, then the panel no longer tests the telephone line.

AREA ACCOUNT CODES - P266E - P268E

- P266E XXXXE **Account Code for Area "A" Reports** - The Account code set at this address will be used to report all system events sets and unsets, zone activations, restores and excludes etc from Area "A" - Default Account = 0000
- P267E XXXXE **Account Code for Area "B" Reports** - The account code set at this address will be used to report sets and unsets, zone activations, restores and excludes etc from Area "B"
- P268E XXXXE **Account Code for Area "C" Reports** - The account code set at this address will be used to report sets and unsets, zone activations, restores and excludes etc from Area "C"

COMMAND CONTROL CODES P261E - P264E

- P261E XXXXE **DTMF Command Output Control Code** - This is a 4 digit code used to control the 8 outputs either locally (set by options P101 - P108 opt 6) or by DTMF remote (set by options P101 - P108 opt 5)
- P262E XXXXE **DTMF Command Code For Area A** - This is a 4 digit code used to remotely set/unset Area A.
- P263E XXXXE As per P262E but controls Area B.
- P263E XXXXE As per P262E but controls Area C.
- P680E 1-9E Starting message number to command control voice prompts.

CONTACT ID CODE ASSIGNMENTS

This block of addresses from P620E to P658E is used to assign the Ademco Contact ID codes to all of the definable events your Elite V4 control communicator can report.

P620E	XXxE	Duress Alarm	Default = 121	
P621E	XXxE	Zone 1 Activation	Default = 130	0 = No Report
P622E	XXxE	Zone 2 Activation	Default = 130	
P623E	XXxE	Zone 3 Activation	Default = 130	
P624E	XXxE	Zone 4 Activation	Default = 130	
P625E	XXxE	Zone 5 Activation	Default = 130	
P626E	XXxE	Zone 6 Activation	Default = 130	
P627E	XXxE	Zone 7 Activation	Default = 130	
P628E	XXxE	Zone 8 Activation	Default = 130	
P629E	XXxE	Zone 9 Activation	Default = 130	
P630E	XXxE	Zone 10 Activation	Default = 130	
P631E	XXxE	Zone 11 Activation	Default = 130	
P632E	XXxE	Zone 12 Activation	Default = 130	
P633E	XXxE	Zone 13 Activation	Default = 130	
P634E	XXxE	Zone 14 Activation	Default = 130	
P635E	XXxE	Zone 15 Activation	Default = 130	
P636E	XXxE	Zone 16 Activation	Default = 130	
P641E	XXxE	Zone 1 Low Tamper	Default = 137	0 = No Report
P642E	XXxE	Zone 2 Low Tamper	Default = 137	
P643E	XXxE	Zone 3 Low Tamper	Default = 137	
P644E	XXxE	Zone 4 Low Tamper	Default = 137	
P645E	XXxE	Zone 5 Low Tamper	Default = 137	
P646E	XXxE	Zone 6 Low Tamper	Default = 137	
P647E	XXxE	Zone 7 Low Tamper	Default = 137	
P648E	XXxE	Zone 8 Low Tamper	Default = 137	
P651E	XXxE	Zone 1 High Tamper	Default = 137	0 = No Report
P652E	XXxE	Zone 2 High Tamper	Default = 137	
P653E	XXxE	Zone 3 High Tamper	Default = 137	
P654E	XXxE	Zone 4 High Tamper	Default = 137	
P655E	XXxE	Zone 5 High Tamper	Default = 137	
P656E	XXxE	Zone 6 High Tamper	Default = 137	
P657E	XXxE	Zone 7 High Tamper	Default = 137	
P658E	XXxE	Zone 8 High Tamper	Default = 137	

ALARM VOICE MESSAGE MAPPING - P660E - P679E

This block of addresses is used to assign up to eight possible voice messages to the Panic alarm battery low and 16 zone activation's. More than one message can be assigned to each zone activation. The voice messages will be replayed over the phone in response to an alarm activation to those phone numbers which have been assigned Speech Dial format at options P231E to P236E. More than one message may be assigned to an alarm event however, if multiple messages are assigned to one event, the messages will be replayed in numerical order.

For example, if message #1 said "Fire" and message #5 said "Activation at Acme premises" and if both messages were mapped to Zone 1 activation's (P661E15E) the replay message in response to a zone 1 activation would be heard as "Fire alarm at Acme premises"

It is possible to map up to eight messages to an alarm event but it should be noted that they will always be replayed in numerical order so when recording your messages into the speech module, you must organise the messages in the correct order.

P660E	1-8E	Voice Messages Mapped to Panic Alarm - Default 1
P661E	1-8E	Voice Messages Mapped to Zone 1 Activation's - Default 1
P662E	1-8E	Voice Messages Mapped to Zone 2 Activation's - Default 1
P663E	1-8E	Voice Messages Mapped to Zone 3 Activation's - Default 1
P664E	1-8E	Voice Messages Mapped to Zone 4 Activation's - Default 1
P665E	1-8E	Voice Messages Mapped to Zone 5 Activation's - Default 1
P666E	1-8E	Voice Messages Mapped to Zone 6 Activation's - Default 1
P667E	1-8E	Voice Messages Mapped to Zone 7 Activation's - Default 1
P668E	1-8E	Voice Messages Mapped to Zone 8 Activation's - Default 1
P669E	1-8E	Voice Messages Mapped to Zone 9 Activation's - Default 1
P670E	1-8E	Voice Messages Mapped to Zone 10 Activation's - Default 1
P671E	1-8E	Voice Messages Mapped to Zone 11 Activation's - Default 1
P672E	1-8E	Voice Messages Mapped to Zone 12 Activation's - Default 1
P673E	1-8E	Voice Messages Mapped to Zone 13 Activation's - Default 1
P674E	1-8E	Voice Messages Mapped to Zone 14 Activation's - Default 1
P675E	1-8E	Voice Messages Mapped to Zone 15 Activation's - Default 1
P676E	1-8E	Voice Messages Mapped to Zone 16 Activation's - Default 1
P679E	1-8E	Voice Message Mapped to Battery Low Alarm - Default 0

UPLOAD/DOWNLOAD OPTIONS

P718E **XXXXXXXX.** Up to 8 digit security code for upload/download.

P719E **Upload/Download options**

- 1E Data transfer is allowed -Default on
- 2E Can get data "from panel" - Default on
- 3E Can send data "to panel" - Default on
- 4E Can monitor keypad activity - Default on
- 5E Can monitor panel status - Default on
- 6E Can change panel status - Default on
- 7E Can clear event buffer
- 8E V21/Bell103

Option 1 **Data Transfer is Allowed** - this option must be on for **ANY** panel -pc data transfer to occur (if off connection can still be achieved with P728E command as below).

Option 2 **Can Get Data "From Panel"** - this option must be on to allow the pc to retrieve programmed data from the panel.

Option 3 **Can Send Data "To Panel"** - to allow changes to be sent to the panel from the pc, this option plus options 1 & 2 must be on.

Option 4 **Can Monitor Keypad Activity** - this option allows an operator to view the last 16 keypad buss entries at a panel via a dial-up link. To work this option plus options 1 & 2 must be on.

Option 5 **Can Monitor Panel Status** - this option allows display of the partitions, zones, outputs, mains and battery status. The option must be on with options 1 & 2.

Option 6 **Can Change Panel Status** - this option allows control of setting/unsetting for partitions A,B & C, control of the 8 outputs and excluding of zones via the pc upload/download dial up link. This option must be on with options 1,2 & 5.

Option 7 **Can clear event buffer**-this option allows the user to clear the panels event buffer from the PC

Option 8 **V21/Bell103**-if this option is off Bell103 format is selected,if on V21 format is selected.The choice of either 300Baub format is dependent upon your modem.

P728E Answer incoming call - provided a user with option 5 set (P49-P72) enters in P728E while in client program mode and the telephone line is currently ringing the panel will answer the incoming call and initiate an upload/download connection (overrides P719E opt 1-6 setting)

PROGRAMMING TEST CALL OPTIONS - P706E - P707E

Because the Elite V4 runs a real time clock, it is possible to assign test calls by day of the week and time of day rather than the more common practice of spacing test calls so many hours apart,.

P706E 0-7E Test Call Days of the Week - Where 1 = Sunday and 7 = Saturday. 0 = No Test

P707E XXXXE Test Call Time of Day - Where the time of the day you wish the panel to make its daily test call is programmed in 24 hour format.

P727E Keypad Listen-in Options-Default = off

- 1 = While dialling
- 2 = During Entire call
- 3 = At all times
- 4 = Spare
- 5 = Spare
- 6 = Spare
- 7 = Spare
- 8 = Spare

COMMON CONTACT ID CODES

Medical Alarm	100	Low Temperature	159
Medical Pendant	101	High Temperature	158
Fire Alarm	110	Refrigeration Alarm	152
Smoke Detector	111	Water Leakage	154
Heat Detector	114	Gas Detector	151
Manual Call Point	115		
Duct Detector	116		
Silent Panic	122		
Audible Panic	123		
Perimeter Zone	131		
24 Hour Zone	133		
Entry Exit Zone	134		

CONTACT ID CODE SUMMARY

In addition to the programmable Contact ID code assignments defined at P 620E - P658E there are a number of event codes with extensions pre-defined as listed below. This extensions list is for your reference only and can not be re-assigned.

Event	Code	Extension	Comment
Cabinet Tamper	137	120	Panel & Sat Tamper etc
Zone Tamper - Low (short circuit)	137	001 to 008	Zones 1-8
Zone Tamper - High (open circuit)	137	009 to 016	Zones 1-8
Keypad Tamper (Wrong Code)	137	101	At keypad #1
Keypad Panic	120	102	At keypad #2
		108	At keypad #8
		101	At keypad #1
		102	At keypad #2
Arm by "ARM key (shortcut)	401	108	At keypad #8
		000	User number zero
Arm by user code	401	001	User #1
Arm by Radiokey	401	002	User #2
		024	user #24
		051	Radio User #1
		052	Radio User #2
Arm by Command Control (remote set)	401	066	Radio User #16
		090	Command Control user
Arm by Time Zone	403	98	Time Zone User Number
Arm by Keyswitch	409	91	Keyswitch Arm/Disarm User#91
Arm by Up/Download	401	99	Remote User Number
Radiokey Panic	120	120	All radio panics
Radio PIR / Reed Switch Activation	130	001	Zone 1
		002	Zone 2
		016	Zone 16
		000	Control Panel Battery low
System Battery Low	302	000	230v mains to control panel lost
Mains Fail	301	000	
Radio PIR / Reed Switch Battery Low	384	001	Zone 1
		002	Zone 2
		016	Zone 16
		051	Radiokey #1
Radiokey Battery Low	384	052	Radiokey #2
		053	Radiokey #3
		066	Radiokey #16
		000	24 hour test
TEST Calls	602	000	
Zone Excludes	570	001	Exclude Zone 1
		002	Exclude Zone 2
		016	Exclude Zone 16
		000	Reported when line is restored
Phone Line Failure	351	000	
Monitor Mode (part set)	574	000	Group by-pass
Duress Alarm	401	001	User 1
		024	User 24
		101	Duress at Keypad #1
		102	Duress at Keypad #2
Duress Alarm	121	108	Duress at keypad #8
		108	

PROGRAMMING ADDRESS SUMMARY

CLIENT MODE PROGRAMMING

PROGRAMMING USER CODES

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INSTALLER PROGRAM MODE

PROGRAMMING USER CODE PERMISSIONS

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PROGRAMMING EXTENDED USER CODE PERMISSIONS

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PROGRAMMING USER CODE TIME CONTROL

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P80E	Access Time Zones for user #8 - Default 0 (24 Hr 7 Days)	Page 19
P81E	Access Time Zones for user #9 - Default 0 (24 Hr 7 Days)	Page 19
P82E	Access Time Zones for user #10 - Default 0 (24 Hr 7 Days)	Page 19
P83E	Access Time Zones for user #11 - Default 0 (24 Hr 7 Days)	Page 19
P84E	Access Time Zones for user #12 - Default 0 (24 Hr 7 Days)	Page 19
P85E	Access Time Zones for user #13 - Default 0 (24 Hr 7 Days)	Page 19
P86E	Access Time Zones for user #14 - Default 0 (24 Hr 7 Days)	Page 19
P87E	Access Time Zones for user #15 - Default 0 (24 Hr 7 Days)	Page 19
P88E	Access Time Zones for user #16 - Default 0 (24 Hr 7 Days)	Page 19
P89E	Access Time Zones for user #17 - Default 0 (24 Hr 7 Days)	Page 19
P90E	Access Time Zones for user #18 - Default 0 (24 Hr 7 Days)	Page 19
P91E	Access Time Zones for user #19 - Default 0 (24 Hr 7 Days)	Page 19
P92E	Access Time Zones for user #20 - Default 0 (24 Hr 7 Days)	Page 19
P93E	Access Time Zones for user #21 - Default 0 (24 Hr 7 Days)	Page 19
P94E	Access Time Zones for user #22 - Default 0 (24 Hr 7 Days)	Page 19
P95E	Access Time Zones for user #23 - Default 0 (24 Hr 7 Days)	Page 19
P96E	Access Time Zones for user #24 - Default 0 (24 Hr 7 Days)	Page 19
P99E	Installer Code - Default 000000 - must be more than 3 digits long	Page 19
P100E	Option 8.Led 8 on means installer code can go directly into installer program mode.	Page 19

PROGRAMMING OUTPUT OPTIONS

P101E	Output #1 Primary options - Default none	
P102E	Output #2 Primary options - Default none	
P103E	Output #3 Primary options - Default none	
P104E	Output #4 Primary options - Default none	
P105E	Output #5 Primary options - Default none	
P106E	Output #6 Primary options - Default none	
P107E	Output #7 Primary options - Default none	
P108E	Output #8 Primary options - Default none	
P111E	Output #1 Expanded options - Default 1-5	
P112E	Output #2 Expanded options - Default 1-5	
P113E	Output #3 Expanded options - Default 1-5	
P114E	Output #4 Expanded options - Default 1-5	
P115E	Output #5 Expanded options - Default 1-5	
P116E	Output #6 Expanded options - Default 1-5	
P117E	Output #7 Expanded options - Default 1-5	
P118E	Output #8 Expanded options - Default 1-5	
P121E	Output #1 Automatic on / off time zones - Default 0 (never)	Page 22
P122E	Output #2 Automatic on / off time zones - Default 0 (never)	Page 22
P123E	Output #3 Automatic on / off time zones - Default 0 (never)	Page 22
P124E	Output #4 Automatic on / off time zones - Default 0 (never)	Page 22
P125E	Output #5 Automatic on / off time zones - Default 0 (never)	Page 22
P126E	Output #6 Automatic on / off time zones - Default 0 (never)	Page 22
P127E	Output #7 Automatic on / off time zones - Default 0 (never)	Page 22
P128E	Output #8 Automatic on / off time zones - Default 0 (never)	Page 22
P131E	Output #1 Enable time zones - Default 0 (always)	Page 22
P132E	Output #2 Enable time zones - Default 0 (always)	Page 22
P133E	Output #3 Enable time zones - Default 0 (always)	Page 22
P134E	Output #4 Enable time zones - Default 0 (always)	Page 22
P135E	Output #5 Enable time zones - Default 0 (always)	Page 22
P136E	Output #6 Enable time zones - Default 0 (always)	Page 22
P137E	Output #7 Enable time zones - Default 0 (always)	Page 22
P138E	Output #8 Enable time zones - Default 0 (always)	Page 22

PROGRAMMING KEYPAD OPTIONS

P140E	Keypads assigned to Area "A" - Default 1-8	Page 22
P141E	Keypads assigned to Area "B" - Default none	Page 22
P142E	Keypads assigned to Area "C" - Default none	Page 22
P143E	Keypads with permission to set - Default 1-8	Page 22
P144E	Keypads with permission to Monitor - Default 1-8	Page 22
P145E	Keypads with permission to use control function - Default 1-8	Page 22
P146E	Keypads with permission to exclude zones - Default 1-8	Page 22
P147E	Keypads with listen in feature enabled - Default 1	Page 22
P148E	Keypads with permission for Client programming mode - Default 1-8	Page 22
P149E	Keypads with permission for Installer programming mode - Default 1-8	Page 22
P152E	Keypads with facility to turn off LED's after exit delay - Default none	Page 22
P153E	Keypads with buzzer mapped to keypad tamper - Default 1-8	Page 22
P154E	Keypads with buzzer mapped to zone tamper - Default 1-8	Page 22
P155E	Keypads with buzzer mapped to cabinet tamper - Default 1-8	Page 22
P156E	Keypads with Panic Button enabled - Default 1-8	Page 22
P157E	Keypads with buzzer mapped to keypad panic - Default 1-8	Page 22
P158E	Keypads with buzzer mapped to line failure - Default none	

P101E-P108E OPTIONS	
1 = Invert	Page 20
2 = Flashing	Page 20
3 = Single pulse	Page 20
4 = One Shot (lock-out)	Page 20
5 = DTMF cmd remote control	Page 20
6 = Local command control	Page 20
7 = Day zone linked to pulse timer	Page 20
8 = Pulsed 24 Hour alarm	Page 20

P111E-P118E OPTIONS	
1 = Keypad panic to output	Page 20
2 = Keypad tamper to output	Page 20
3 = Zone tampers to output	Page 20
4 = Cabinet tamper to output	Page 20
5 = Radio key panic to output	Page 20
6 = Mains fail to output	Page 20
7 = Battery low to output	Page 20
8 = Phone Line failure	Page 20

PROGRAMMING PARTITION 'A' PARAMETERS

P170E Time Zones used for Area "A" auto arming /disarming- Default 0

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PARTITION 'A' PRIMARY OUTPUT OPTIONS

P171E Area "A" primary options for output #1 - Default 1
P172E Area "A" primary options for output #2 - Default 1 & 3
P173E Area "A" primary options for output #3 - Default 1
P174E Area "A" primary options for output #4 - Default 1
P175E Area "A" primary options for output #5 - Default 1
P176E Area "A" primary options for output #6 - Default 1
P177E Area "A" primary options for output #7 - Default 1
P178E Area "A" primary options for output #8 - Default 1

P171E-P178E OPTIONS

1 = Standard zone activation's Page 24
2 = 24 hour activation's Page 24
3 = Monitor Mode activation's Page 24
4 = Radio key chirps Page 24
5 = All zones sealed (ready) Page 24
6 = 2 sec pulse on arm / disarm Page 24
7 = Intelligent smoke reset pulse Page 24
8 = Day zone activation's Page 24

PARTITION 'A' SPECIFIC OUTPUT OPTIONS

P181E Area "A" specific options for output #1 - Default 0
P182E Area "A" specific options for output #2 - Default 0
P183E Area "A" specific options for output #3 - Default 0
P184E Area "A" specific options for output #4 - Default 0
P185E Area "A" specific options for output #5 - Default 0
P186E Area "A" specific options for output #6 - Default 0
P187E Area "A" specific options for output #7 - Default 0
P188E Area "A" specific options for output #8 - Default 0

P181E-P188E OPTIONS

1 = Any exclude Page 25
2 = Auto exclude warning Page 25
3 = Entry beeps Page 25
4 = Exit beeps Page 25
5 = Control Page 25
6 = Set/unset Page 25
7 = Monitor set/unset Page 25
8 = Keypad duress Page 25

PARTITION 'A' KEYPAD OPTIONS

P189E Arm key can disarm during exit - Default 1-8 Page 25
P190E Monitor can disarm during mon. - Default 1-8 Page 25
P191E Day mode beeps to keypads - Default 1-8 Page 25
P192E Zone set alarm to keypads - Default 1-8 Page 26
P193E Zone monitor alarms to keypads - Default 1-8 Page 26
P194E 24 Hour alarms to keypads - Default 1-8 Page 26
P195E Exit beeps - Default 1-8 Page 26
P196E Entry beeps - Default 1-8 Page 26

PROGRAMMING DURESS DIGIT FOR PARTITION 'A'

P197E Duress digit - Default 0

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PARTITION 'A' MISC OPTIONS

P198E Misc partition options 1 - Default 0

1 = Spare Page 27
2 = 'Arm' required before code
3 = 'Monitor' required before code
4 = Code required to arm
5 = Code required for control
6 = Control toggles
7 = Momentary control
8 = Control disables day zones

P199E Misc partition options 2 - Default 3,4,6

1 = Keyswitch enabled Page 28
2 = Use 2nd Keyswitch
3 = Keyswitch ARM's/MONITOR
4 = Pendant chirps when armed
5 = Pendant chirps when monitoring
6 = 2 sec pulse at set
7 = 2 sec pulse at unset
8 = Access control even when armed

P180E PARTITION "A" TIME AND DELAY OPTIONS

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- 1 = set partition When Time Zone Ends
- 2 = Unset Partition When Time Zone Starts
- 3 = Disable Monitor Mode Exit Delay
- 4 = Disable Set Mode Exit Delay
- 5 = Disable Monitor Mode Entry Delay
- 6 = Disable Set Mode Entry Delay
- 7 = Don't send Monitor Mode alarms (software V5.51 and above)
- 8 = Disable zone tampers during exit delay

PROGRAMMING PARTITION 'B' PARAMETERS**P270E** Time zones used for Area "B" auto arming/disarming - Default 0

Page 24-28

PARTITION 'B' PRIMARY OUTPUT OPTIONS

- P271E** Area "B" primary options for output #1 - Default 1
- P272E** Area "B" primary options for output #2 - Default 1 & 3
- P273E** Area "B" primary options for output #3 - Default 1
- P274E** Area "B" primary options for output #4 - Default 1
- P275E** Area "B" primary options for output #5 - Default 1
- P276E** Area "B" primary options for output #6 - Default 1
- P277E** Area "B" primary options for output #7 - Default 1
- P278E** Area "B" primary options for output #8 - Default 1

P271E-P278E OPTIONS

- 1 = Standard zone activation's Page 24-28
- 2 = 24Hr activation's Page 24-28
- 3 = Monitor Mode activation's Page 24-28
- 4 = Radio key chirps Page 24-28
- 5 = All zones sealed (Ready) Page 24-28
- 6 = 2 sec pulse arm/disarm Page 24-28
- 7 = Intelligent smoke reset pulse Page 24-28
- 8 = Day zone activation's Page 24-28

PARTITION 'B' SPECIFIC OUTPUT OPTIONS

- P281E** Area "B" specific options for output #1 - Default 0
- P282E** Area "B" specific options for output #2 - Default 0
- P283E** Area "B" specific options for output #3 - Default 0
- P284E** Area "B" specific options for output #4 - Default 0
- P285E** Area "B" specific options for output #5 - Default 0
- P286E** Area "B" specific options for output #6 - Default 0
- P287E** Area "B" specific options for output #7 - Default 0
- P288E** Area "B" specific options for output #8 - Default 0

P281E-P288E OPTIONS

- 1 =Any exclude Page 24-28
- 2 = Auto exclude warning Page 24-28
- 3 = Entry beeps Page 24-28
- 4 = Exit beeps Page 24-28
- 5 = Control Page 24-28
- 6 = Set/unset Page 24-28
- 7 = Monitor set/unset Page 24-28
- 8 = Keypad duress Page 24-28

PARTITION 'B' KEYPAD OPTIONS

- P289E** Arm key can disarm during exit - Default 1-8 Page 24-28
- P290E** Monitor can disarm during mon. - Default 1-8 Page 24-28
- P291E** Day mode beeps to keypads - Default 1-8 Page 24-28
- P292E** Zone set alarms to keypads - Default 1-8 Page 24-28
- P293E** Zone monitor alarms to keypads - Default 1-8 Page 24-28
- P294E** 24Hr alarms to keypads - Default 1-8 Page 24-28
- P295E** Exit beeps - Default 1-8 Page 24-28
- P296E** Entry beeps - Default 1-8 Page 24-28

PROGRAMMING DURESS DIGIT FOR PARTITION "B"**P297E** Duress digit - Default 0**PARTITION 'B' MISC OPTIONS****P298E** Misc partition options 1 - Default 0

- 1 = Spare Page 24-28
- 2 = Arm required before code
- 3 = Monitor required before code
- 4 = Code required to arm
- 5 = Code required for control
- 6 = Control toggles
- 7 = Momentary control
- 8 = Control disables day zones Page 24-28

P299E	Misc partitions options 2 - Default 3,4,6	1 = Keyswitch enabled 2 = Use 2nd Keyswitch 3 = Keyswitch ARM's/MONITOR 4 = Pendant chirps when armed 5 = Pendant chirps when monitoring 6 = 2 sec pulse at set 7 = 2 sec pulse at unset 8 = Access control even when armed	Page 24-28
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P280E PARTITION "B" TIME AND DELAY OPTIONS

- 1 = set partition When Time Zone Ends
- 2 = Unset Partition When Time Zone Starts
- 3 = Disable Monitor Mode Exit Delay
- 4 = Disable Set Mode Exit Delay
- 5 = Disable Monitor Mode Entry Delay
- 6 = Disable Set Mode Entry Delay
- 7 = Don't send Monitor Mode alarms (software V5.51 and above)
- 8 = Disable zone tamperers during exit delay

PROGRAMMING PARTITION 'C' PARAMETERS

P370E	Time zones used for Area "C" auto-arming/disarming - Default 0	Page 24-28
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PARTITION 'C' PRIMARY OUTPUT OPTIONS

- P371E** Area 'C' primary options for output #1 - Default 1
- P372E** Area 'C' primary options for output #2 - Default 1 & 3
- P373E** Area "C" primary options for output #3 - Default 1
- P374E** Area "C" primary options for output #4 - Default 1
- P375E** Area "C" primary options for output #5 - Default 1
- P376E** Area "C" primary options for output #6 - Default 1
- P377E** Area "C" primary options for output #7 - Default 1
- P378E** Area "C" primary options for output #8 - Default 1

P371E-P378E OPTIONS

- 1 = Standard zone activation's Page 24-28
- 2 = 24Hr activation's Page 24-28
- 3 = Monitor Mode activation's Page 24-28
- 4 = Radio key chirps Page 24-28
- 5 = All zones sealed (ready) Page 24-28
- 6 = 2 sec pulse on arm/disarm Page 24-28
- 7 = Intelligent smoke reset pulse Page 24-28
- 8 = Day zone activation's Page 24-28

PARTITION 'C' SPECIFIC OUTPUT OPTIONS

- P381E** Area "C" specific options for output #1 - Default 0
- P382E** Area "C" specific options for output #2 - Default 0
- P383E** Area "C" specific options for output #3 - Default 0
- P384E** Area "C" specific options for output #4 - Default 0
- P385E** Area "C" specific options for output #5 - Default 0
- P386E** Area "C" specific options for output #6 - Default 0
- P387E** Area "C" specific options for output #7 - Default 0
- P388E** Area "C" specific options for output #8 - Default 0

P381E-P388E OPTIONS

- 1 = Any exclude Page 24-28
- 2 = Auto exclude warn Page 24-28
- 3 = Entry beeps Page 24-28
- 4 = Exit Beeps Page 24-28
- 5 = Control Page 24-28
- 6 = Set/unset Page 24-28
- 7 = Monitor set/unset Page 24-28
- 8 = Kbd duress Page 24-28

PARTITION "C" KEYPAD OPTIONS

P389E	Arm key can disarm during exit - Default 1-8	Page 24-28
P390E	Monitor can disarm during mon. - Default 1-8	Page 24-28
P391E	Day mode beeps to keypads - Default 1-8	Page 24-28
P392E	Zone set alarms to keypads - Default 1-8	Page 24-28
P393E	Zone monitor alarms to keypads - Default 1-8	Page 24-28
P394E	24Hr alarms to keypads - Default 1-8	Page 24-28
P395E	Exit beeps - Default 1-8	Page 24-28
P396E	Entry beeps - default 1-8	Page 24-28

PROGRAMMING DURESS DIGIT FOR PARTITION 'C'

P397E Duress digit - Default 0

Page 24-28

PARTITION 'C' MISC OPTIONS

P398E Misc partition options 1 - Default 0

- 1 = Spare
- 2 = 'Arm' required before code
- 3 = 'Monitor' required before code
- 4 = Code required to arm
- 5 = Code required for control
- 6 = Control toggles
- 7 = Momentary control
- 8 = Control disables day zones

Page 24-28

P399E Misc partition options 2 - Default 3,4,6

- 1 = Keyswitch enabled
- 2 = Use 2nd Keyswitch
- 3 = Keyswitch ARM's/MONITOR
- 4 = Pendant chirps when armed
- 5 = Pendant chirps when monitoring
- 6 = 2 sec pulse at set
- 7 = 2 sec pulse at unset
- 8 = Access control even when armed

Page 24-28

P380E PARTITION "C" TIME AND DELAY OPTIONS (Default 0)

- 1 = set partition When Time Zone Ends
- 2 = Unset Partition When Time Zone Starts
- 3 = Disable Monitor Mode Exit Delay
- 4 = Disable Set Mode Exit Delay
- 5 = Disable Monitor Mode Entry Delay
- 6 = Disable Set Mode Entry Delay
- 7 = Don't send Monitor Mode alarms (software V5.51 and above)
- 8 = Disable zone tampers during exit delay

MISCELLANEOUS SYSTEM OPTIONS

P201E Options - Default 3,4,5,7,8

- 1 = Mains input AC or DC
- 2 = Ignore Mains fail
- 3 = Low Keyswitch is momentary or latching
- 4 = High Keyswitch is momentary or latching
- 5 = Cabinet tamper is loop or end-of-line
- 6 = Installer lockout
- 7 = Area "C" is zones shared with Area A & B
- 8 = Local serial port is 9600bps or 2400bps

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P204E Spare

Page 29

P205E Spare

Page 29

P206E Spare

Page 29

SINGLE OR DUAL ZONE INPUT (8-or 16 ZONES)

P300E Single or dual zone input - Default-All Off(zones 1-8 only)

Page 30

VIBRATION SENSOR ZONE ASSIGNMENTS

P301E Zone 1 vibration sensitivity - Default 0

0 = No vibration sensor

Page 30

P302E Zone 2 vibration sensitivity - Default 0

Sensitivity 1-8

Page 30

P303E Zone 3 vibration sensitivity - Default 0

1 = High sensitivity

Page 30

P304E Zone 4 vibration sensitivity - Default 0

8 = Low sensitivity

Page 30

P305E Zone 5 vibration sensitivity - Default 0

Page 30

P306E Zone 6 vibration sensitivity - Default 0

Page 30

P307E Zone 7 vibration sensitivity - Default 0

Page 30

P308E Zone 8 vibration sensitivity - Default 0

Page 30

P161E	Zone 9 vibration sensitivity - Default 0	Page 30
P162E	Zone 10 vibration sensitivity - Default 0	Page 30
P163E	Zone11 vibration sensitivity - Default 0	Page 30
P164E	Zone 12 vibration sensitivity - Default 0	Page 30
P165E	Zone 13 vibration sensitivity - Default 0	Page 30
P166E	Zone 14 vibration sensitivity - Default 0	Page 30
P167E	Zone 15 vibration sensitivity - Default 0	Page 30
P168E	Zone 16 vibration sensitivity - Default 0	Page 30

LOW ZONE ASSIGNMENTS (ZONES 1-8)

P331E	Zone is a normally open/closed output - Default N/C	Off = N/C On = N/O	Page 30
P332E	Zone is a radio detector - Default Off		Page 30
P333E	Zone is in Area "A" - Default all)		Page 30
P334E	Zone is in Area "B" - Default none) If zone is in both it is then a partition "C" zone		Page 30
P335E	Zone is isolatable - Default all		Page 30
P336E	Zone is a handover - Default 2		Page 31
P337E	Two trigger zones -Default none		Page 31
P338E	Zone is 24Hr - Default none		Page 31
P339E	Monitor mode zones - Default zones 1-4		Page 31
P340E	Day zones - Default none		Page 31
P341E	Siren lockout zones - Default none		Page 31
P342E	Auto exclude zones - Default all		Page 31
P343E	Access control door position input - Default none		Page 31
P344E	Access control request to exit input - Default none		Page 31
P345E	Continuous day zone - Default none		Page 31
P346E	Zones 1-8 will report multiple activations Default on		

HIGH ZONE ASSIGNMENTS (ZONES 9-16)

P351E	Zone is a normally open/closed output - Default N/C	Off = N/C On = N/O	Page 31
P352E	Zone is a radio detector - Default Off		Page 31
P353E	Zone is in Area "A" - Default all)		Page 31
P354E	Zone is in Area "B" - Default none) If zone is in both it is then a partition "C" zone		Page 31
P355E	Zone is isolatable - Default all		Page 31
P356E	Zone is a handover - Default none		Page 31
P357E	Two trigger zones -Default none		Page 31
P358E	Zone is 24Hr - Default none		Page 31
P359E	Monitor mode zones - Default zones 1-4		Page 31
P360E	Day zones - Default none		Page 31
P361E	Siren lockout zones - Default none		Page 31
P362E	Auto exclude zones - Default all		Page 31
P363E	Access control door position input - Default none		Page 31
P364E	Access control request to exit input - Default none		Page 31
P365E	Exclusive day zone - Default none		Page 31
P366E	Zones 9-16 will report multiple activations-Default on		

SYSTEM DELAYS & TIMERS

P401E	Zone 1 entry delay - Default 20 sec	Delay timer values	Page 32
P402E	Zone 2 entry delay - Default 20 sec	0 = instant, no delay	Page 32
P403E	Zone 3 entry delay - Default 0	1-999 = 1 -999 seconds	Page 32
P404E	Zone 4 entry delay - Default 0		Page 32
P405E	Zone 5 entry delay - Default 0		Page 32
P406E	Zone 6 entry delay - Default 0		Page 32
P407E	Zone 7 entry delay - Default 0		Page 32
P408E	Zone 8 entry delay - Default 0		Page 32
P409E	Zone 9 entry delay - Default 0		Page 32
P410E	Zone 10 entry delay - Default 0		Page 32
P411E	Zone 11 entry delay - Default 0		Page 32
P412E	Zone 12 entry delay - Default 0		Page 32
P413E	Zone 13 entry delay - Default 0		Page 32
P414E	Zone 14 entry delay - Default 0		Page 32
P415E	Zone 15 entry delay - Default 0		Page 32
P416E	Zone 16 entry delay - Default 0		Page 32

P417E	Area "A" exit delay -Default = 60 sec		Page 32
P418E	Area "B" exit delay - Default = 60 sec		Page 32
P419E	Area "C" exit delay - Default = 60 sec		Page 32
P421E	Output #1 reset time - Default 600 sec	Reset time values	Page 32
P422E	Output #2 reset time - Default 600 sec	0 = latching	Page 32
P423E	Output #3 reset time - Default 600 sec	1-999 = 1 to 999 seconds	Page 32
P424E	Output #4 reset time - Default 600 sec		Page 32
P425E	Output #5 reset time - Default 0 sec		Page 32
P426E	Output #6 reset time - Default 0 sec		Page 32
P427E	Output #7 reset time - Default 0 sec		Page 32
P428E	Output #8 reset time - Default 0 sec		Page 32
P431E	Output #1 delay on timer - Default 0	Delay time values	Page 32
P432E	Output #2 delay on timer - Default 0	0 = no delay	Page 32
P433E	Output #3 delay on timer - Default 0	1 - 999 = 1 to 999 seconds	Page 32
P434E	Output #4 delay on timer - Default 0		Page 32
P435E	Output #4 delay on timer - Default 0		Page 32
P436E	Output #5 delay on timer - Default 0		Page 32
P437E	Output #6 delay on timer - Default 0		Page 32
P438E	Output #7 delay on timer - Default 0		Page 32
P441E	Output #1 pulse time - Default 0	Pulse time values	Page 32
P442E	Output #2 pulse time - Default 0	1-999 (min of 1)	Page 32
P443E	Output #3 pulse time - Default 0	1 to 999 in 1/10 secs	Page 32
P444E	Output #4 pulse time - Default 0	e.g. 1 = 0.1 second	Page 32
P445E	Output #5 pulse time - Default 0	10 = 1 second	Page 32
P446E	Output #6 pulse time - Default 0		Page 32
P447E	Output #7 pulse time - Default 0		Page 32
P448E	Output #8 pulse time - Default 0		Page 32
P450E	Report delay on zone alarms - 1-99 seconds - Default 0		Page 33
P451E	Area "A" two trigger time period - Default 60 sec		Page 32
P452E	Area "B" two trigger time period - Default 60 sec		Page 32
P453E	Area "C" two trigger time period - Default 60 sec		Page 32
P454E	Area "A" door open too long timer (DOTL) - Default 10 sec		Page 33
P455E	Area "B" door open too long timer (DOTL) - Default 10 sec		Page 33
P456E	Area "C" door open too long timer (DOTL) - Default 10 sec		Page 33
P457E	Area "A" day zone keypad buzzer duration - Default 2 sec		Page 32
P458E	Area "B" day zone keypad buzzer duration - Default 2 sec		Page 32
P459E	Area "C" day zone keypad buzzer duration - Default 2 sec		Page 32
ENROLLING RADIO DETECTORS (ZONES 1-16) - (MUST ALSO PROGRAM P332E & P352E ADDRESSES)			
P501E	Enrol Radio Detector Zone 1		Page 34
P502E	Enrol Radio Detector Zone 2		Page 34
P503E	Enrol Radio Detector Zone 3		Page 34
P504E	Enrol Radio Detector Zone 4		Page 34
P505E	Enrol Radio Detector Zone 5		Page 34
P506E	Enrol Radio Detector Zone 6		Page 34
P507E	Enrol Radio Detector Zone 7		Page 34
P508E	Enrol Radio Detector Zone 8		Page 34
P509E	Enrol Radio Detector Zone 9		Page 34
P510E	Enrol Radio Detector Zone 10		Page 34
P511E	Enrol Radio Detector Zone 11		Page 34
P512E	Enrol Radio Detector Zone 12		Page 34
P513E	Enrol Radio Detector Zone 13		Page 34
P514E	Enrol Radio Detector Zone 14		Page 34
P515E	Enrol Radio Detector Zone 15		Page 34
P516E	Enrol Radio Detector Zone 16		Page 34

SET RADIO DETECTOR OPTIONS

P521E	Radio Detector zone #1 options - Default 1	
P522E	Radio Detector zone #2 options - Default 1	
P523E	Radio Detector zone #3 options - Default 1	
P524E	Radio Detector zone #4 options - Default 1	
P525E	Radio Detector zone #5 options - Default 1	
P526E	Radio Detector zone #6 options - Default 1	
P527E	Radio Detector zone #7 options - Default 1	
P528E	Radio detector zone #8 options - Default 1	
P529E	Radio Detector zone #9 options - Default 1	
P530E	Radio Detector zone #10 options - Default 1	
P531E	Radio Detector zone #11 options - Default 1	
P532E	Radio Detector zone #12 options - Default 1	
P533E	Radio Detector zone #13 options - Default 1	
P534E	Radio detector zone #14 options - Default 1	
P535E	Radio Detector zone #15 options - Default 1	
P536E	Radio Detector zone #16 options - Default 1	

P521E - P536E OPTIONS

1 = Ness battery fail	Page 34
2 = Ness radio reed switch	Page 34
3 = Crow battery low	Page 34
4 = Visonic PIR batt low/tamper	Page 34
5 = EL PIR batt low/tamper	Page 34
6 = Crow radio reed switch	Page 34
7 = Merlin (non-supervised)	Page 34
8 = Visonic Pwr code (non-supvd)	Page 34

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UPLOAD/DOWNLOAD OPTIONS

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COMMON CONTACT ID CODES

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ARMING THE PANEL (CODE = A VALID 1-6 DIGIT USER CODE)

PRESS <ARM>
OR <CODE> <ENTER>
OR <ARM> <CODE> <ENTER>

The mode for arming above depends upon the programmed panel operation. Also, the arming mode can vary from one keypad to another, depending upon how the system is programmed.

If the arm sequence was successful, the relevant armed LED will turn on (ARMED, A or B) or a combination of these, depending upon the areas assigned to a particular user code.

DISARMING THE PANEL

PRESS <CODE> <ENTER>

If the disarm sequence was successful, the relevant armed LED (ARMED, A or B) will turn off depending upon the area/s assigned to a particular user code.

EXCLUDING ZONES

FIRST ARM THE ALARM AS ABOVE
DURING THE EXIT DELAY PRESS <EXCLUDE>
(The exclude LED will turn ON).

Next; Select any zone/s from 1-8 that you wish to exclude by pressing numbers 1-8 on the keypad. The appropriate green zone led will turn on to show that the zone/s will be excluded.

To exclude zones 9-16 (if the panel is set up as a 16 zone panel);
PRESS <EXCLUDE> again.

The "Aux." led should be ON. Now numbers 1-8 (and zone leds 1-8) will select 9-16 (eg 1=9 - 8=16)

Once all the zones you wish to exclude have been selected;
PRESS <ENTER>.
This will then start the full exit delay timer and you should exit the building.

MONITOR MODE ARMING

PRESS <MONITOR>
OR <MONITOR> <CODE> <ENTER>

Above choice depends upon programmed options.

The relevant monitor led (either ARMED, A or B) will flash to indicate that monitor mode is on.

MONITOR MODE DISARMING

PRESS <CODE> <ENTER>
Monitor mode led (ARMED, A or B) will turn OFF.

If the keypad is programmed for one button monitor mode disarming then simply pressing the <MONITOR> button will disarm monitor mode.

CONTROL OPERATION

If the system has been programmed with a control function, then the control mode is operated as follows;

PRESS <CONTROL>
or <CONTROL> <CODE> <ENTER>

The control led on the keypad will turn ON.

If control mode was set as a timed function, the control led will turn off automatically after a pre-defined period.

If the control mode was set as a toggle function entering in the above sequence will turn off the control function and the control led will turn off.

Also, if the control function is used to control a security door which has door open too long monitoring this function can be inhibited temporarily by any user with DOTL override assigned to their code.

CONTROL DOTL OVERRIDE

PRESS <PROGRAM> <CODE> <ENTER>

Program LED will turn ON.

PRESS <CONTROL>.

Control LED will flash.

PRESS <PROGRAM> <ENTER>

The control led will continue to flash. The controlled door can now be opened for an indefinite period of time. Once the door closes again, the control led will turn OFF and the door will alarm if the door is forced open or left open too long.

VIEWING MEMORY DISPLAY

If an alarm occurs the event will be stored in the Elite's 40 event memory which will cause the "MEMORY" indicator to flash on and off.

To display the memory events;

PRESS <MEMORY>

The memory led will turn on and events will be displayed sequentially starting with the newest event. The display changes to a new event every 2 seconds.

When all of the events have been displayed,. the memory led turns off and the keypad is back in normal mode.

To stop the memory display at any time and return to normal mode press <ENTER>.

COMMAND CONTROL OPERATING INSTRUCTIONS

- 1) Dial the alarm panel from a remote DTMF (push button) telephone.
- 2) The panel will answer with a continuous tone for 5 seconds. When this tone stops, enter in your 4 digit code for the function you wish to control

eg P262, Area A code 1,1,1,1
 P263, Area B code 2,2,2,2
 P264, Area C code 3,3,3,3
 P261 Output code 4,4,4,4

(The above codes are examples only and should not be used).

If you entered in code 1,1,1,1, the panel will give you the current status of Area A using a pre-recorded voice message.

- 3) By pressing the "*" button on the telephone, you can toggle the current status of Area A and another pre-recorder voice message will give the now current status of Area A.

You can toggle the status of Area A back to its original state by pressing the "*" button again. Every change of state will initiate a voice message giving the current status.

- 4) If you wish to control one of the 8 outputs, you must first enter in the 4 digit code, followed by the output number you wish to control eg 4,4,4,4,1 will cause a pre-recorded voice message to give the current status of output 1. Once again pressing the "*" button on the telephone will toggle the output and the new status will be given by another voice message.

- 5) If you make a mistake at any stage, press the "#" button and re-enter your code.

- 6) When finished, just hang up. The panel will automatically disconnect 15 seconds later.

LOCAL OUTPUT CONTROL

The same code used for remote DTMF remote control can be entered at the alarm panel keypad to allow control of all 8 outputs locally (this facility needs to be programmed by the installer).

- 1) Enter in your output control code eg 4,4,4,4, ENTER.

The keypad display will now turn off all indicators except the 8 green zone leds. If an output from 1-8 is currently on, it will be displayed by the appropriate green zone led being on eg zone 3 led on means output 3 is currently on.

- 2) If the output is allowed to be locally controlled, you may now press the keypad number associated with the output and the output will toggle (change state) every time that number is pressed eg button number 1 will control output 1, number 2 will control output 2 etc.

- 3) When the desired outputs have been turned on or off, press the "ENTER" button to return back to normal mode.

INITIATING A PRINT COMMAND

If a user has permission to print the event log to a printer they must first enter client program mode

eg <PROGRAM><CODE NO.><ENTER>
(program LED on steady)

THEN ENTER <PROGRAM><726><ENTER>

Up to 63 events will then be transferred to the printer.

Note; The printer must be connected and on-line to receive the event log information

INITIATING AN UPLOAD DOWNLOAD CONNECTION FROM THE PANEL

There are two ways of initiating a pc upload/download connection with a dial-up link;

1) **Direct dial-in.** By default (provided the auto-answer rings are turned on by entering a value other than "0" at P329E) the panel will answer an incoming call from a pc and initiate modem handshaking to start the connection.

2) **User initiated auto-answer** If a user who has permission to locally initiate an upload/download link (option 5, P49 - P72) enters client program mode and enters P728E, the panel will answer an incoming call from the pc after 2 rings and then start the modem handshaking.

SOFTWARE CHANGES TO ELITE 16D

There have been a couple of changes to the latest version of panel software (V4.20) which differ from previous versions of software V4.16 and below. These are;

1) The PWM or siren driver option for outputs 1 & 2 have now moved from P201E options 1 & 2 to P101E and P102E option 8.

This is an important change as connecting a horn speaker to output 1 & 2 without first making the output a PWM siren output could cause damage to the panel.

2) The auto arming time zone for a partition P170E, P270E & P370E is now an auto-arming and/or auto-disarming time zone.

Having selected a suitable time at the above address the desired option of auto-arming, auto-disarming or both is selected at addresses P180E, P280E, P380E option 1 & 2.

3) The output pulse timer is now programmable in 1/10 second increments instead of 1 second increments. The radio chirps to an output are now linked to the pulse timer for that output eg if the pulse timer has a value of 1 programmed then the chirp duration will be 1/10 second on then 1/10 second off,etc.

If you require the chirps to be longer in duration eg to allow a satellite board to provide the chirps, then you must make the pulse timer value larger. Typically a value of 3 or 4 for the pulse timer will give the same length of chirp pulses that earlier software versions provided.

4) Programming of daylight saving has changed to fit in with the international standard for setting daylight saving. Refer to the manual for more details.

5) Previously if you did not require an exit delay for monitor mode you programmed this option at addresses P198E, P298E and P398E option 1. This option has moved and been expanded.

At P180E, P280E and P380E options 3,4,5 and 6 you can now select no entry or exit delay for monitor mode or full set.

6) If a day zone is programmed to operate an output, the duration of the output on time is now linked to the day zone to keypad buzzer timer (P457E, P458E and P459E).

The day zone output can also be made to pulse the output at a rate equivalent to the pulse timer setting for that output at addresses P101E to P108E option 7.

ADDITIONAL FEATURES NOW AVAILABLE WITH V4.20

1) Upload/download is now available via a dial up link or by direct connection of a PC via the serial port.

2) The zone response time is now adjustable from 1 - 32 (default = 6). The program address is P709E.

3) The panel has a time and date stamped 63 event buffer which can be sent to a serial printer via the serial port.

4) A back-up of the panel programmed data can be made to an Eeprom board via the serial port. This allows re-instatement of the panel program at a later date (refer P736E and P738E).

5) A zone reporting delay P450E has now been included which delays the reporting of zone alarms via the dialler (default = no delay).

6) A fax defeat option is now included for the auto-answer feature in dialler panels (refer P260E)

7) 24hr alarms can now be programmed to send an alarm in voice or domestic reporting modes (refer P322E, P324E and P326E).

8) The sending of set signals can now be programmed to be sent immediately upon setting or at the end of the exit delay (refer P322E, P324E and P326E).

ADDITIONAL FEATURES WITH V4.21 SOFTWARE

1) On powering up the panel with the panel tamper open tamper alarms are inhibited as before but the panel does not now default to putting keypad 1 into program mode. Instead, all keypads on the system start up in normal mode and you may now go to any keypad connected to the panel and the first button press will automatically put that keypad into full program mode.

2) You can now select one of two 300Baud modem formats, either Bell103 or V21. (P719E Option8). This allows for the modern high speed modems which may only support one of these formats. You can also set the modem level generated by the panel at address P727E Option 7 & 8. If both 7 & 8 are off the level is LOW, if 7 is on the level is MEDIUM, and if 7 is off and 8 is on the level is HIGH. The default setting is Medium which is recommended for most situations.

3) At addresses P180E, P280E & P380E Option8 you can now select an option to ignore zone tamper alarms during the exit delay. This feature has been provided so that smoke detectors with trouble or power supervisory outputs can be automatically reset on arming without causing a trouble alarm. (Assuming the zone tamper indication is used to monitor the trouble signal)

NEW FEATURES WITH V5.0 SOFTWARE

1) The siren driver option for outputs 1 & 2 are now a hardware device rather than the previous software driven outputs. The siren driver to outputs 1 & 2 are now set by 2 links on the main control board (refer to diagram on page 10). If the links are fitted then outputs 1 & 2 are switched outputs designed to drive 12v devices, if the links are removed then the outputs are modulated siren outputs designed to drive horn speakers. Link 1 relates to output 1 and link 2 relates to output 2.

2) The listen-in feature available at the keypads can now be assigned to output 1 as well via the listen-in link on the main control board (refer to diagram on page 10). The link should only be fitted if a horn speaker is wired to output 1 otherwise the link should be left off.

3) Access to program mode can now be further defined for each of the 24 user codes e.g. users can have access to program mode to view and change their code only, access program mode to view and change all user codes and gain access to installer program mode via client program mode. The installer code can also now be programmed to allow access directly into full program mode without having to go via client program mode first, however as a safety feature the panel must not be armed or in monitor mode to allow this to happen.

4) The panel now allows the entry delay timer for each of the 16 zones to be assigned to 24 hour zones to provide an abort delay for these zones. If the entry delay for a 24 hour zone is set to 0 then the alarm is instant. If the entry delay is set to a value other than 0, e.g. 600, then the zone has to be in alarm for 10 minutes before it will activate. If the zone seals before the 10 minutes expires then the delay is reset and no alarm is created. This feature is very useful for plant monitoring.

5) There is now a new set of program addresses for the communicator (P215, P216, P217 & P218). These 4 addresses allow a maximum number of dial attempts for each of the 4 dialling scenarios. Now if you need to restrict the number of calls which will be made following an alarm these new program options will allow you to control the maximum calls.

NEW FEATURES WITH V5.51 SOFTWARE

1) At addresses P180, P280 & P380 option 7, if this option is turned on the panel will not report alarms and excludes when in monitor mode. If it is off then all alarms and excludes will be reported when a monitor mode alarm occurs.

