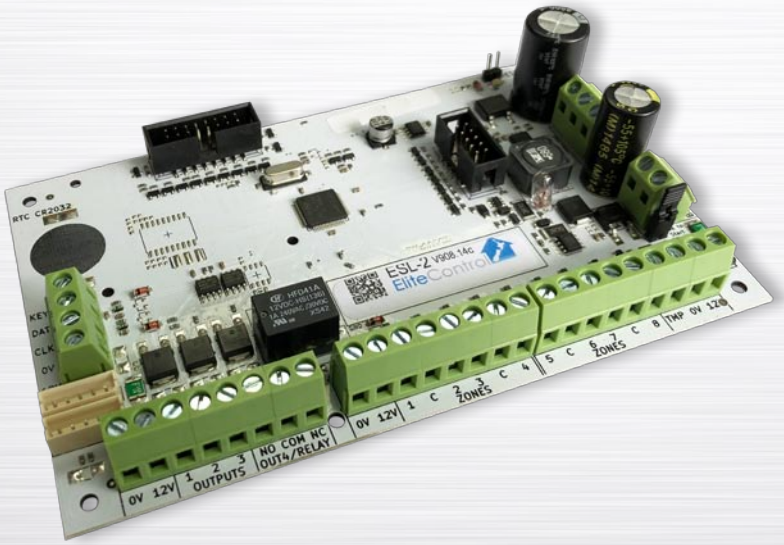
ESL-2 Version
8/16 Zone Control Communicator | V9

EliteControl
www.aap.co.nz

Arrowhead Alarm Products Ltd

Installation & Programming Guide



NZ Designed & Manufactured

NEW ZEALAND MADE

Arrowhead Alarm Products Ltd

Contact Information

Phone: (09) 414 0085
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Albany
Auckland

PO Box 303-096
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New Zealand

This ELITE S Version 9 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 feed-back, we are proud to provide you with a new generation of alarm controller. The ELITE S V9 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 Alert panel to ensure the highest degree of reliability.

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

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November 2006 ELITE S V9.05 and below.
This manual relates to the Arrowhead ELITE S V9 alarm control panel software version V9.00 to V9.05.

Disclaimer

Arrowhead Alarm Products Ltd make no warranties regarding the content of this document and assume no responsibility for any omissions or errors contained herein.
To the best of our knowledge the information contained in this manual is correct at the time of printing. Arrowhead Alarm Products Ltd reserve the right to make changes to the features and specifications at any time without notice in the course of product development.

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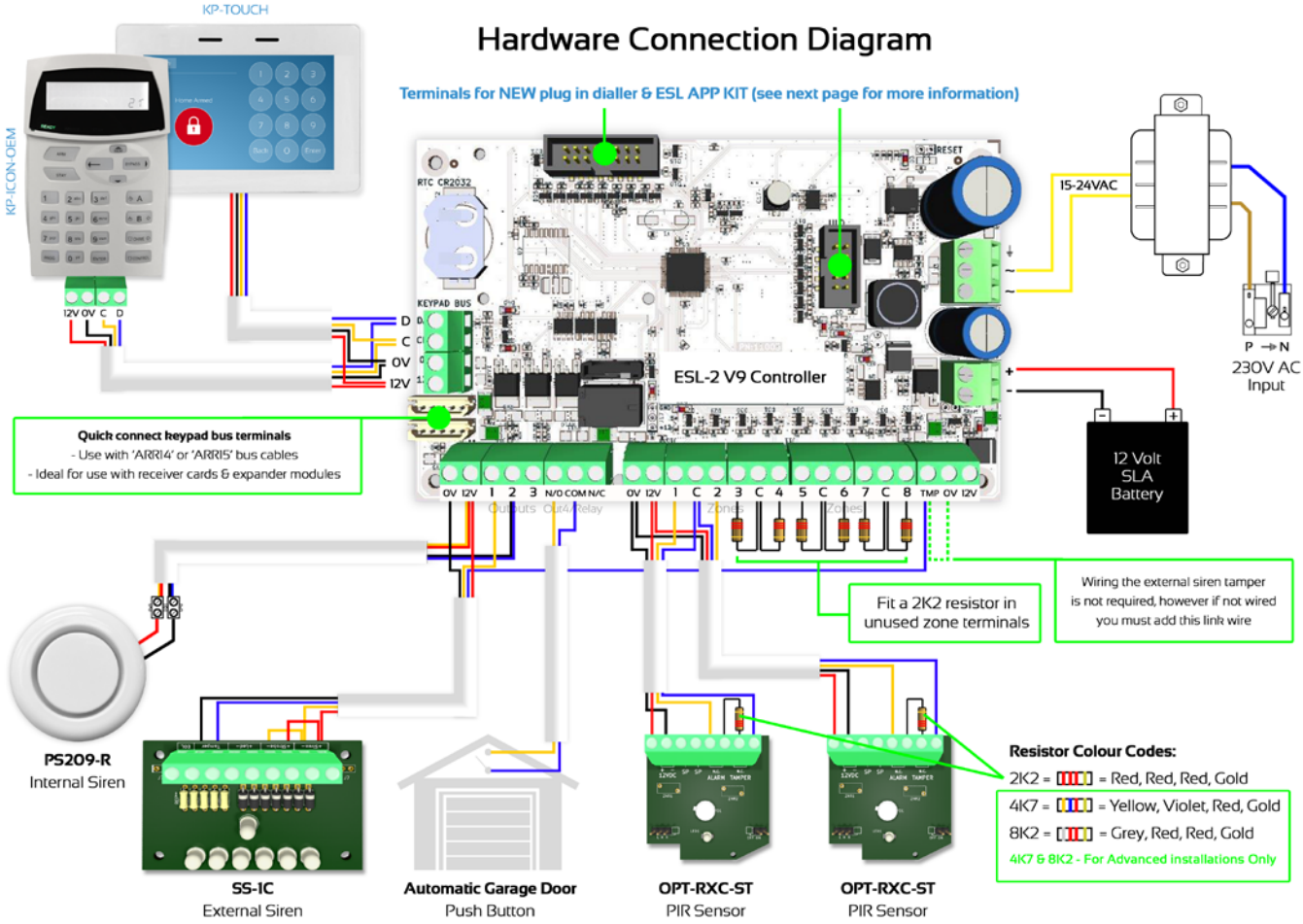
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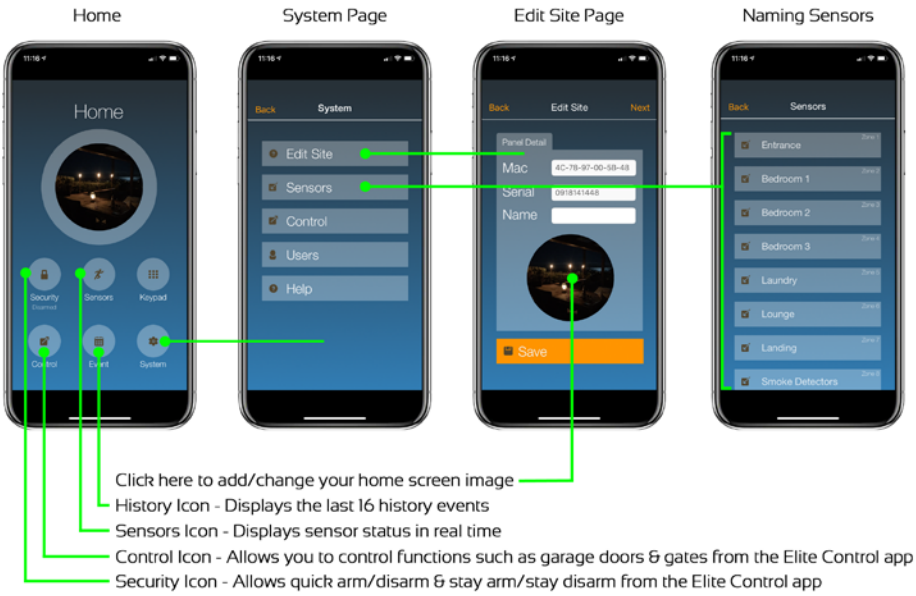

Hardware Connection Diagram
KP-TOUCH
KP-ICON-OEM
12V 0V C D
Terminals for NEW plug in dialler & ESL APP KIT (see next page for more information)
RTC CR2032
RESET
KEYPAD BUS
D
C
0V
12V
ESL-2 V9 Controller
15-24VAC
P N
230V AC
Input
12 Volt
SLA
Battery
Quick connect keypad bus terminals
- Use with 'ARR14' or 'ARR15' bus cables
- Ideal for use with receiver cards & expander modules
0V 12V 1 2 3 N/O COM N/C
0V 12V 1 C 2 3 C 4 5 C 6 7 C 8 TMP 0V 12V
Outputs
Aux. Relay
Zones
Fit a 2K2 resistor in unused zone terminals
Wiring the external siren tamper is not required, however if not wired you must add this link wire
PS209-R
Internal Siren
SS-IC
External Siren
Automatic Garage Door
Push Button
OPT-RXC-ST
PIR Sensor
OPT-RXC-ST
PIR Sensor
Resistor Colour Codes:
2K2 = = Red, Red, Red, Gold
4K7 = = Yellow, Violet, Red, Gold
8K2 = = Grey, Red, Red, Gold
4K7 & 8K2 - For Advanced installations Only

ESL-2 APP Hardware & Programming

Smartphone - Setup Continued

After entering your name, email, phone number & passcode, the app will take you to the home page. To complete the app configuration, press the 'System' icon in the bottom right corner of the 'Home' page. This will take you to the correct section to change the home image, rename sensors, rename the control functions & more

See below for examples:



Push Notification Programming

Push notifications are activations from your alarm panel sent directly to your smartphone. Many of the app functions will work by default, however you will need to complete the following programming for push notifications to operate:

- 'P' = PROG & 'E' = ENTER
- P 000000 E (default install code) - Enters install programming as per full manual or quickfit guide
- P 175 E 1 E 1 E - Turns on dialler (this turns option 1 on at address 175 E 1 E)
- P 181 E 1 E 123 E - Enters a phone number for the system to dial - It doesn't matter what number, but a number is required for the system to send a signal
- P 182 E 1 E 1 E - Makes sure the phone number format is set to CID (option 1 at address 182 E 1 E)
- Exit program mode - P E

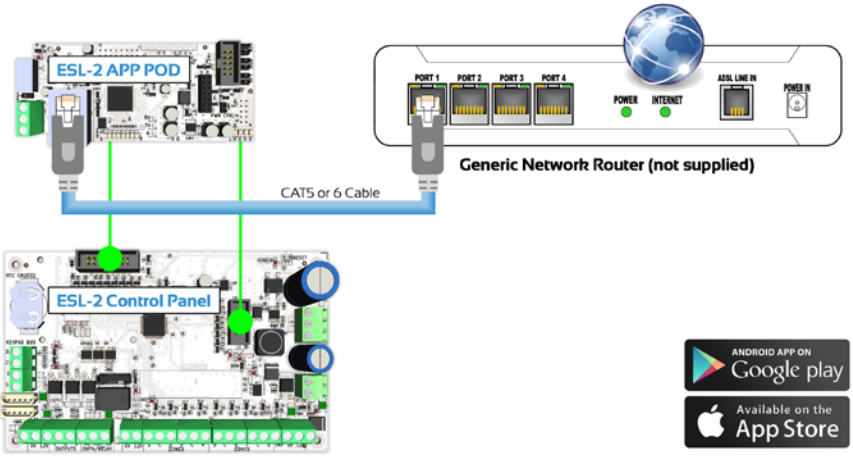
ESL-2 APP POD

ESL-2 App, Hardware & Programming

The 'ESL-2 APP POD' is a plug in app module or network monitoring device for ESL-2 security systems

Note: ESL-2 must be powered down before completing the following steps

ESL-2 APP POD Hardware Connections:



ANDROID APP ON Google play

Available on the App Store

Smartphone - Initial Setup

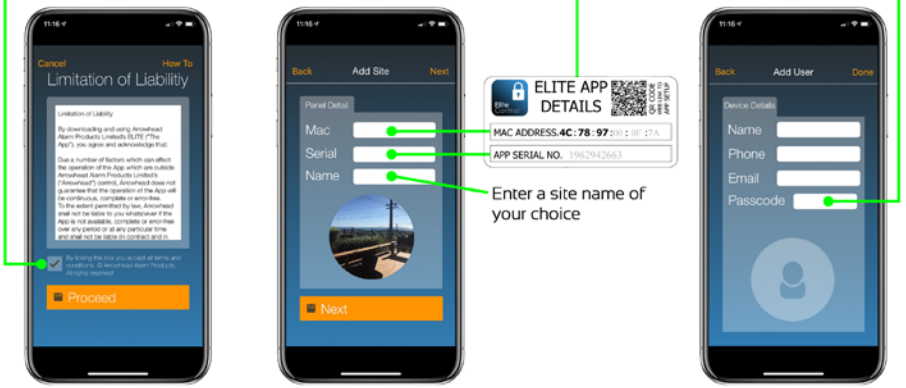
Each 'ESL-2 APP POD' comes with a sticker containing a 'Mac' & 'Serial' ID number. This is to link your specific module with your app

Download the 'Elite Control' app from 'App Store' or 'Google Play' and complete the following setup procedure:

Accept terms & conditions

Enter Mac & Serial from details provided

Enter your details: Passcode must be the same as the keypad arm/disarm code

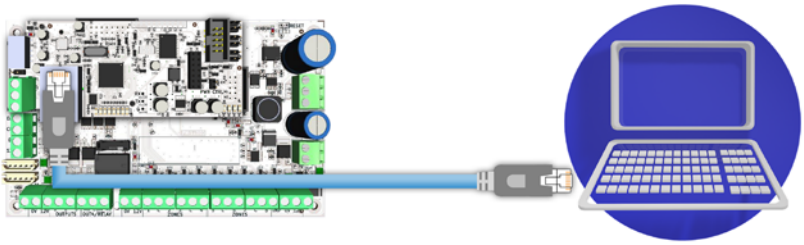


Custom Programming & Monitoring Setup

The 'ESL-2 APP POD' can also be used to send monitoring signals from the ESL-2 alarm panel directly to a monitoring station. This will require the advanced programming detailed below:

1 - Make sure 'ESL-2 APP POD' is plugged into your ESL-2 panel and is displaying some indicator LED's

2 - Connect the 'ESL-2 APP POD' to your computers LAN port with the supplied Ethernet cable

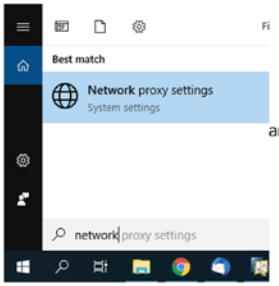


3 - The default IP address for the 'ESL-2 APP POD' is **192.168.1.100**

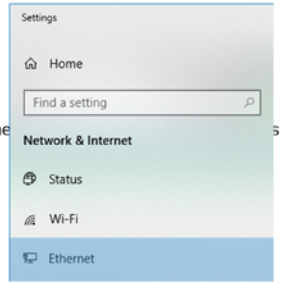
You will use this to connect to the module but first you must change/fix the computers IPV4 address to be in the same IP range. I.e. **192.168.1.101 -** You can use anything from 192.168.1.101 to 192.168.1.254

4 - To change you computers IP address, follow the steps below:

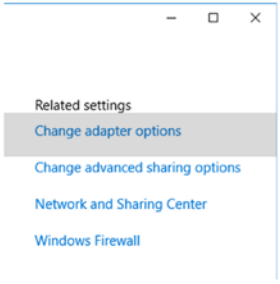
Type 'network' into your search tab, then click 'Network proxy settings'



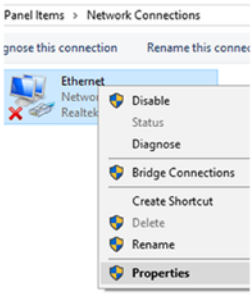
Click on 'Ethernet' to enter this menu



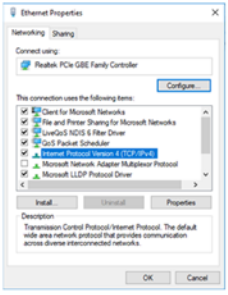
Click on 'Change adaptor options' to enter this menu



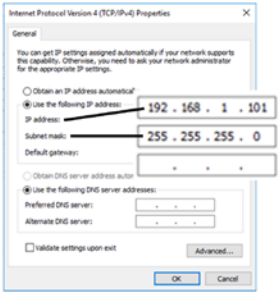
Right click on the 'Ethernet' icon, then click 'Properties'



Double click on 'Internet Protocol Version 4 (TCP/IPV4)'



Select 'Use the following IP address' & Enter the IP address as detailed below:



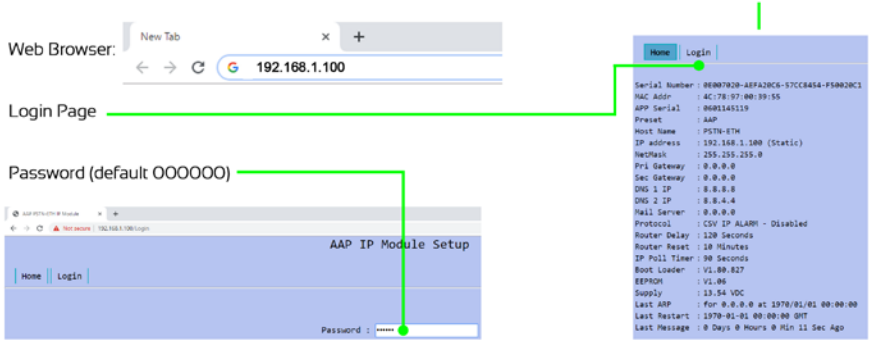
ESL-2 APP Hardware & Programming

Web Browsing Into Your ESL-2 APP POD

You are now ready to browse into you module for programming.

Note: You must close the IP pages mentioned on the previous page for the settings to take effect.

1 - Open your web browser - Chrome, Internet Explorer, Safari or Fire-Fox and enter the default IP address of the ESL-2 APP POD (**192.168.1.100**), then press enter. The home page of the module should appear.

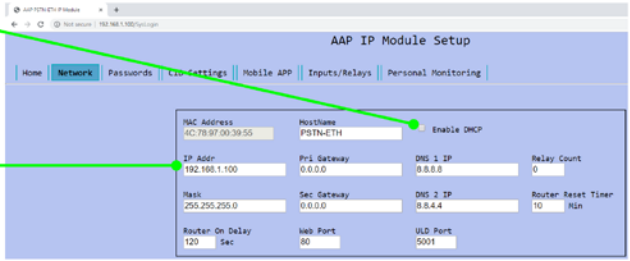


Simple Network Setup

Tick DHCP and the module will automatically be given a new IP address when plugged into the router

Advanced Network Setup

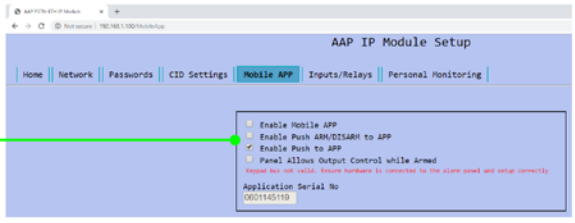
Do not enable DHCP for advanced networks. Instead you can enter your own gateways, DNS numbers, IP address & port numbers



Smartphone App Options

Under 'Mobile APP' you can change the app settings to suit. These options are:

- Enable Mobile App
- Enable Push Arm/Disarm to APP
- Enable Push o APP
- Panel Allows Output Control While Armed



Note: The MAC & Serial numbers for the Elite Control app are provided with the unit by default. If these are lost or missing they can be found on the home page of the web browser

Press 'Save & Restart' when you are satisfied with your programming changes to save configuration

IP Monitoring Via 'ESL-2 APP POD'

The ESL-2 APP POD can also be programmed to send contact ID information to a monitoring station for guard response. See below for the information you will require from your desired monitoring company and the programming options required to configure the module

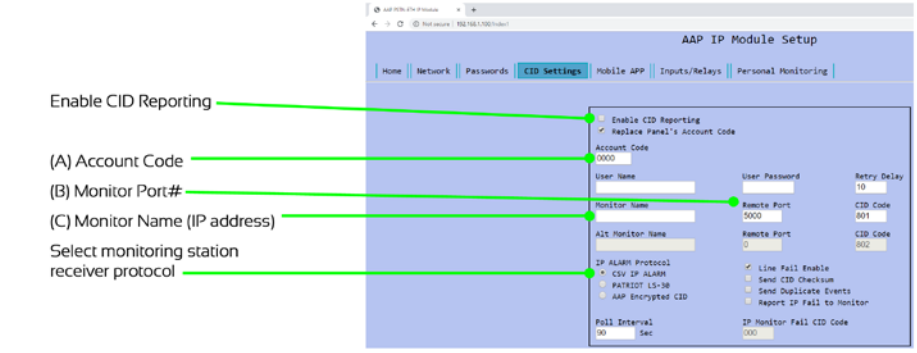
Gather the information displayed in the table below from you monitoring station. This is required to configure the ESL-2 APP POD for guard response monitoring

Monitoring Information

Account Code (A) ✓	✓ = **Must have information**		
User Name (optional)	User Password (optional)		IP Monitor Fail CID Code (optional)
Monitor Name (IP Address) (C) ✓ . . .	Monitor Port # (B) ✓	CID Code (optional)	Polling Interval (optional)
Alternative Monitor Name . . .	Alt Monitor Port #	CID Code (optional)	

IP ALARM Protocol (tick one) ✓				
	CSV IP ALARM		PATRIOT LS-30	AAP ECID

After completing the network set up (as explained on the previous page), you are required to enter the 'CID Settings' section. This is where you are required to enter the information gathered from the monitoring station. See below:



Once all the correct information has been added, press the TAB key, then click Save & Restart

ESL-2 APP Hardware & Programming

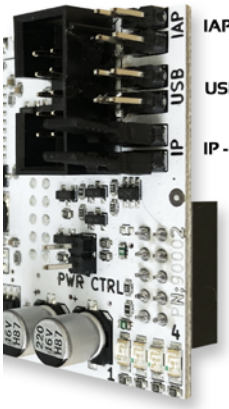
ESL-2 APP POD Jumper Pins

There are 3 sets of gold pins on the ESL-2 APP POD, called 'IP', 'USB' & 'IAP'. These pins are used to change the function of the serial port as detailed below:

The jumpers can be left on any setting to use the ESL-2 APP POD with the app

There are 2 jumpers for each function. Both need to be moved for the function to correctly operate

Note: ESL-2 must be powered down before moving the jumper pins. Repower when complete



IAP - This is the jumper position for using our 'IAP' firmware update software

USB - This is the jumper position for using the USB-D-LINK for upload/download of the system

IP - This is the jumper position for remote upload download of the system
Note: Port forwarding is required for this function



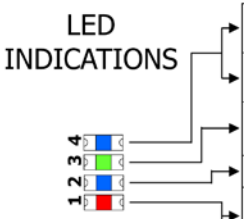
USB D-LINK - ESL & ESL-2 upload/download cable



Serial Port - For use with USB-D-LINK upload/download cable for firmware upgrades, saving panel config, PC programming & review

Trouble Shooting

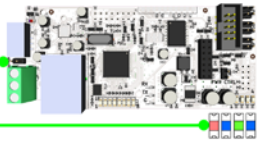
Follow the table below to help identify the status of your ESL-2 APP POD Module



BLUE FAST FLASHING 4 flashes every second	Ready	Network detected
BLUE SLOW FLASHING 1 flash every second	Fault	No Network detected
GREEN STEADY	Dialling Out	The alarm panel connect to the Line-in terminals has Looped the line and is attempting to dial out.
BLUE STEADY	Monitoring Fail	Unable to connect to the Monitoring Station.
RED STEADY	APP Server Fail	The IP-Module has failed to connect to the networ router and be assigned an IP address/gateway
RED FLASHING	ULD Operating	Remote Upload/Download software is accessing th Panel through the IP-Module
ALL FLASHING	DEFAULT	There is no programming saved in the module
LED 3 & 4 Alternating	Setup Error	Neither CID or Mobile APP reporting is enabled

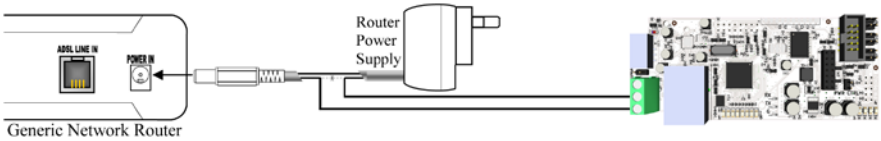
Resetting the Module

The ESL-2 APP POD is equipped with 2 x gold pins for restoring the unit to its factory default. These pins are located between the relay and relay terminals.
Short pins for 6 seconds to restore factory defaults.
The 4 LED's displayed here should start flashing together when the reset pins are shorted

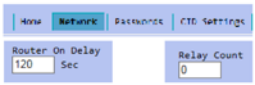


Router Reboot

The ESL-2 APP POD monitors whether internet is present at all times. Should you lose internet due to a router fau the inbuilt relay on the ESL-2 APP POD is designed to reboot the router. This is achieved by wiring the router powe through the COM & N/C of the network module relay. See below for an example



Configuring router reboot can be found under 'Network' in the web browser. 'Relay Count' represents the amount of reboot attemps and 'Router On Delay' represents the time the router has to come back online before another reboot attempt



Power Failure

Check that your network is backed up! In the event of a power failure, this network module will not be able to report without a UPS or battery back up on your router and ONT.

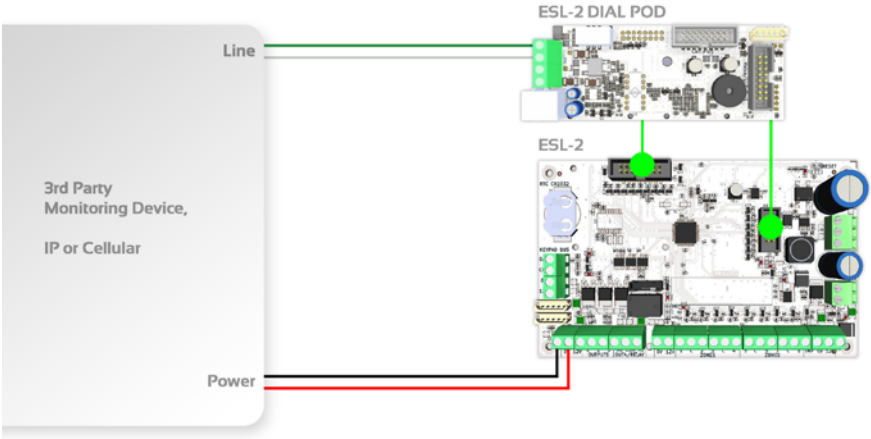
ESL-2 DIAL POD Programming

ESL-2 DIAL POD Manual

Third Party Monitoring Device Connection

Make sure the ESL-2 is powered down before completing the following steps

- Plug the ESL-2 DIAL POD into the ESL-2 control panel as detailed below:
- Connect the line in terminals to the line terminals of your 3rd party monitoring device
- Connect the 0V & 12V terminals of the 3rd party device to the 0V & 12V of the ESL-2 control panel
- Power up ESL-2 control panel



ESL-2 Programming For 3rd Party Monitoring Devices

- Enter install mode on the alarm keypad

In these instructions P = Program button & E = Enter button

Enter Install Mode - Icon Keypad (default) = P 000000 E - 'IPGM' should now be displayed

Enter Install Mode - Touch Keypad (default) = 'Settings' 'Advanced Settings' 000000 E, then press 'Quick Address Entry' - A keypad including PROG & ENTER should now be displayed

- P 175 E 1 E 1 E - Turns on dialler (this turns option 1 on at address 175 E 1 E)
- P 181 E 1 E 123456 E - Enters a phone number for the system to dial - It doesn't matter what number, but a number is required for the system to send a signal. In this example we are using 123456
- P 182 E 1 E 1 E - Makes sure the phone number format is set to CID (option 1 at address 182 E 1 E)
- Exit program mode - P E
- Now activate the system and your monitoring device (if programmed correctly) should report as programmed

See the full ESL-2 Installation manual should you require any further information

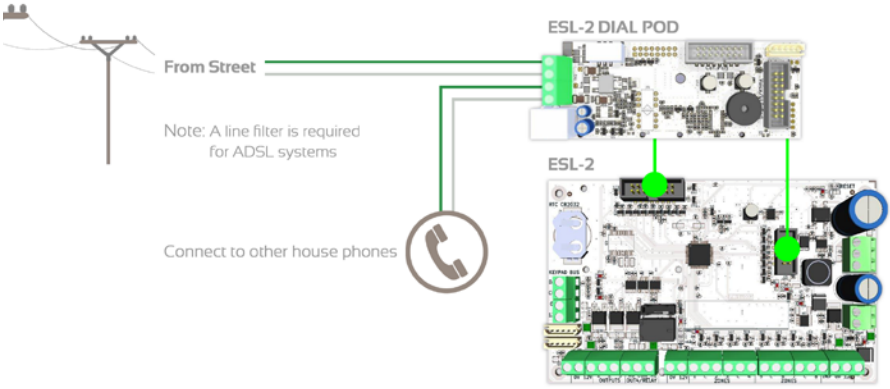
ESL-2 DIAL POD Programming

Land Line Monitoring

This function can be used where a land line is still active at the premises. The ESL-2 & ESL-2 DIAL POD system will call up to 8 numbers sequentially and play siren tones to the recipient over the phone line

Make sure the ESL-2 is powered down before completing the following steps

- Plug the ESL-2 DIAL POD into the ESL-2 control panel as detailed below:
- Connect the line in terminals of the ESL-2 DIAL POD to your incoming phone line
- Remember to use a line filter for ADSL applications
- If required, connect the line out of the ESL-2 DIAL POD to the analogue phones in the house as detailed below:
- Power up ESL-2 control panel



ESL-2 Programming For Land Line Monitoring

- Enter install mode on the alarm keypad

In these instructions P = Program button & E = Enter button

Enter Install Mode - Icon Keypad (default) = P 000000 E - 'IPGM' should now be displayed

Enter Install Mode - Touch Keypad (default) = 'Settings' 'Advanced Settings' 000000 E, then press 'Quick Address Entry' - A keypad including PROG & ENTER should now be displayed

- P 175 E 1 E 1 E - Turns on dialler (this turns option 1 on at address 175 E 1 E)

Address 181 is where you enter phone numbers. Land line monitoring phone numbers are pre configured as slots 5 to 8 detailed below:

P 181 E 5 E 021234567 E (phone number 5)

P 181 E 6 E 027987562 E (phone number 6)

P 181 E 7 E 022456876 E (phone number 7)

P 181 E 8 E 021478523 E (phone number 8)

- Exit program mode - P E

See the full ESL-2 Installation manual should you require any further information

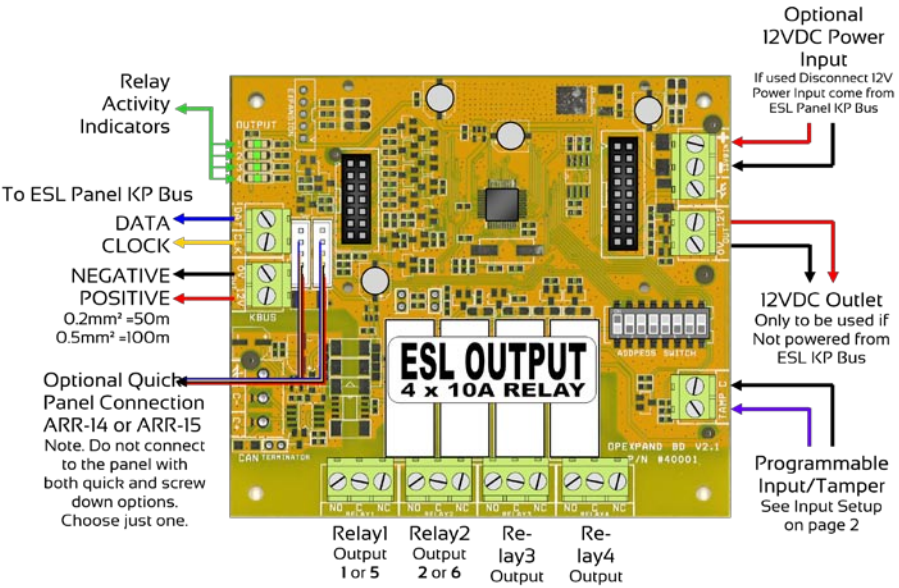
EliteControl
www.aap.co.nz

ESL-2 OUTPUT Programming

ESL OUTPUT
4 x Relay Expansion Board

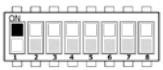
Compatible With:

ESL-2, ESL, Elite S, Elite S-Lite, Elite 8D Elite-Lite, Alert 8D, Elite 16D, RX-OCTA
Note: This product is not compatible with the ESX system

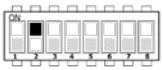


Relay Rating: 10Amp, 60VDC max.

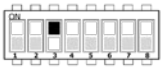
Output assignment
The ESL OX4 has 4 assignable relays, these can be set to follow outputs 1-4 or 5-8 by changing the dipswitches as outlined below.



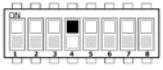
Dipswitch 1 settings
OFF - Relay 1 follows output 1
ON - Relay 1 follows output 5



Dipswitch 2 settings
OFF - Relay 2 follows output 2
ON - Relay 2 follows output 6



Dipswitch 3 settings
OFF - Relay 3 follows output 3
ON - Relay 3 follows output 7



Dipswitch 4 settings
OFF - Relay 4 follows output 4
ON - Relay 4 follows output 8

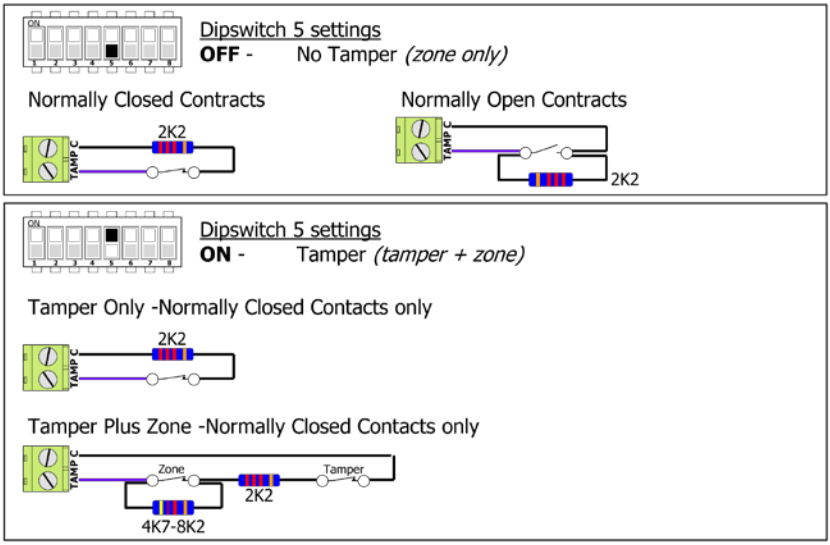
Note. On Elite-S systems this option must be turned ON: P 25 E 10 E 6(ON)E (on by default with ESL-2)

ESL-2 OUTPUT Programming

Input Setup

The tamper input on the ESL OUTPUT can be configured as a standard single end of line zone or a double end of line zone with tamper. This is changed by setting dipswitch 5 as outlined below.
If dipswitch 5 is **Off** the Input can be used as a Zone, with Open, Closed and Supervised monitoring. A 2k2 resistor is used to seal the zone.

If dipswitch 5 is **On** the Input can be used as a Zone and a Tamper, with Open, Closed and Supervised monitoring. A 2k2 resistor is used to seal the tamper and a 4k7 or 8k2 resistor should be used across the normally closed zone contacts.



Programming Input into ESL System

The Tamper input on the ESL OUTPUT needs to be set up as a radio zone.

To learn the zone in you will need to enter Programming mode on the ESL panel.
P 164 E x E E (Where **x** = the zone number you wish to learn to)
Once the keypad starts beeping to indicate learn mode has been initiated, activate the zone or tamper to learn it in to the panel.

Next you will need to set the zone up as a radio zone.
P 122 E x E 1 & 5(on) E (Where **x** = the zone number) you should see options 1 and 5 illuminated on the keypad.
The zone must be set to freelink/freewave protocol (this is the default for ESL system)

Multiple ESL OUTPUT's

If you need more than one ESL OUTPUT on the system and are going to use the zone inputs as different zones, then you will need to change the code that the ESL OUTPUT transmits. To do this you simply need to change dipswitches 6, 7 and 8 to a different combination on each ESL OX4.



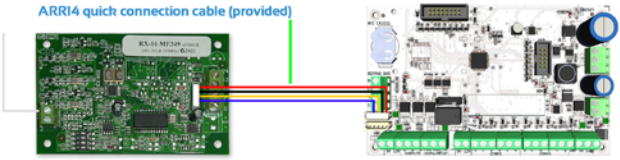
RX-16 MF349 Remote Upgrade



Remote Upgrade (optional upgrade)

This system supports up to 10 x 4 button remotes for wireless arm, disarm, panic & garage door or gate control. The ESL-2 has preconfigured functions for user slots 40 to 89 to suit most remote applications. See next page for more information

- First you are required to plug your receiver card into the ESL-2 panel as detailed below:



If the ARRI4 cable has been misplaced you can wire the receiver the same as a keypad (detailed on page 2)

- Providing the system is powered up, you should now be able to see a green LED on the receiver when you press any button on the remote. If not, check you have a compatible receiver/remote and that your receiver is set to the correct frequency. See below to select frequency and see below to distinguishing remote frequency

Identifying Your Remote Frequency

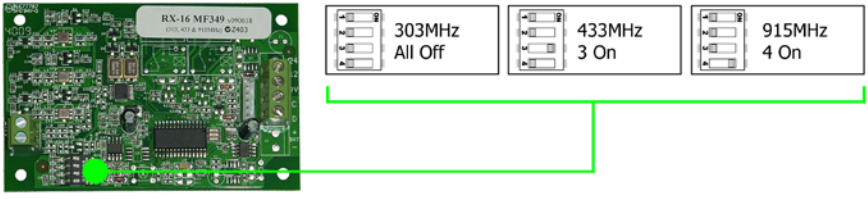


RM-8006B	RM-8006A	RM-0001A	RM-8003B	RM-8003A	TRX PENDANT	FW2-REMOTE
Blue LED	Red LED	Red LED	Blue LED	Red LED	Red LED	**Receiver:**
915MHz	303MHz	433MHz	915MHz	303MHz	917-921MHz	FW2-TX IN BOX
Receiver:	**Receiver:**	**Receiver:**	**Receiver:**	**Receiver:**	**Receiver:**	
RX-16 MF349	RX-16 MF349	RX-16 MF349	RX-16 MF349	RX-16 MF349	TRX TRANSCEIVER	

RX-16 MF349 Frequency Setting:

See below for setting the correct frequency on your RX-16 MF349 receiver

Note: The receiver must be repowered after any dipswitch changes to take effect



If your receiver LED is coming on when you press the remote button, you are ready to start the learn process. See next page for learning instructions

Remote Learning

Before learning remotes you **must be in install mode** as detailed on page 3

Arm Button



Arm Only Button	Learn Code
Pendant **0**	**P 18 E 40 E E** press the remote button you wish to learn in
Pendant **1**	**P 18 E 41 E E** press the remote button you wish to learn in
Pendant **2**	**P 18 E 42 E E** press the remote button you wish to learn in
Pendant **3**	**P 18 E 43 E E** press the remote button you wish to learn in
Pendant **4**	**P 18 E 44 E E** press the remote button you wish to learn in
Pendant **5**	**P 18 E 45 E E** press the remote button you wish to learn in
Pendant **6**	**P 18 E 46 E E** press the remote button you wish to learn in
Pendant **7**	**P 18 E 47 E E** press the remote button you wish to learn in
Pendant **8**	**P 18 E 48 E E** press the remote button you wish to learn in
Pendant **9**	**P 18 E 49 E E** press the remote button you wish to learn in

Disarm Button



Disarm Only Button	Learn Code
Pendant **0**	**P 18 E 50 E E** press the remote button you wish to learn in
Pendant **1**	**P 18 E 51 E E** press the remote button you wish to learn in
Pendant **2**	**P 18 E 52 E E** press the remote button you wish to learn in
Pendant **3**	**P 18 E 53 E E** press the remote button you wish to learn in
Pendant **4**	**P 18 E 54 E E** press the remote button you wish to learn in
Pendant **5**	**P 18 E 55 E E** press the remote button you wish to learn in
Pendant **6**	**P 18 E 56 E E** press the remote button you wish to learn in
Pendant **7**	**P 18 E 57 E E** press the remote button you wish to learn in
Pendant **8**	**P 18 E 58 E E** press the remote button you wish to learn in
Pendant **9**	**P 18 E 59 E E** press the remote button you wish to learn in

Garage Door 1 Control Button (linked to Output 4)

Follow connection diagram shown in the main paperwork



Door 1 Button	Learn Code
Pendant **0**	**P 18 E 70 E E** press the remote button you wish to learn in
Pendant **1**	**P 18 E 71 E E** press the remote button you wish to learn in
Pendant **2**	**P 18 E 72 E E** press the remote button you wish to learn in
Pendant **3**	**P 18 E 73 E E** press the remote button you wish to learn in
Pendant **4**	**P 18 E 74 E E** press the remote button you wish to learn in
Pendant **5**	**P 18 E 75 E E** press the remote button you wish to learn in
Pendant **6**	**P 18 E 76 E E** press the remote button you wish to learn in
Pendant **7**	**P 18 E 77 E E** press the remote button you wish to learn in
Pendant **8**	**P 18 E 78 E E** press the remote button you wish to learn in
Pendant **9**	**P 18 E 79 E E** press the remote button you wish to learn in

Wire from N/O & COM on the ESL-2 to your garage door controller or push button as detailed here:



Remote & Wireless Detector Learning

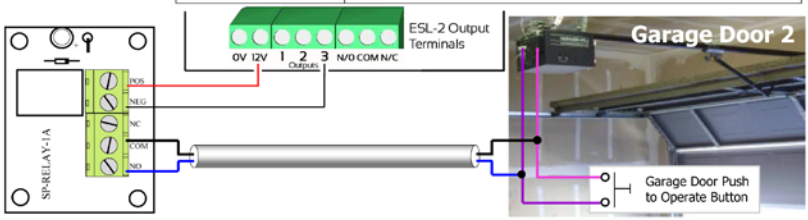
Before learning remotes you **must be in install mode** as detailed on page 3

Garage Door 2 Control Button (linked to Output 3)

Follow wiring diagram below



Door 2 Button	Learn Code
Pendant **0**	**P 18 E 60 E E** press the remote button you wish to learn in
Pendant **1**	**P 18 E 61 E E** press the remote button you wish to learn in
Pendant **2**	**P 18 E 62 E E** press the remote button you wish to learn in
Pendant **3**	**P 18 E 63 E E** press the remote button you wish to learn in
Pendant **4**	**P 18 E 64 E E** press the remote button you wish to learn in
Pendant **5**	**P 18 E 65 E E** press the remote button you wish to learn in
Pendant **6**	**P 18 E 66 E E** press the remote button you wish to learn in
Pendant **7**	**P 18 E 67 E E** press the remote button you wish to learn in
Pendant **8**	**P 18 E 68 E E** press the remote button you wish to learn in
Pendant **9**	**P 18 E 69 E E** press the remote button you wish to learn in



Panic Alarm Button

(triggers internal & external siren)
2 Buttons can be pressed at the same time and learnt into their own slot



Panic Button	Learn Code
Pendant **0**	**P 18 E 80 E E** press the remote button you wish to learn in
Pendant **1**	**P 18 E 81 E E** press the remote button you wish to learn in
Pendant **2**	**P 18 E 82 E E** press the remote button you wish to learn in
Pendant **3**	**P 18 E 83 E E** press the remote button you wish to learn in
Pendant **4**	**P 18 E 84 E E** press the remote button you wish to learn in
Pendant **5**	**P 18 E 85 E E** press the remote button you wish to learn in
Pendant **6**	**P 18 E 86 E E** press the remote button you wish to learn in
Pendant **7**	**P 18 E 87 E E** press the remote button you wish to learn in
Pendant **8**	**P 18 E 88 E E** press the remote button you wish to learn in
Pendant **9**	**P 18 E 89 E E** press the remote button you wish to learn in

Learning Wireless Sensors & Outputs

The ESL-2 controller supports up to 16 sensors & 8 outputs. These can be made up of wired or wireless devices including PIR's, smoke detectors, reed switches, sirens and more

See below for links to manuals for our different wireless ranges:

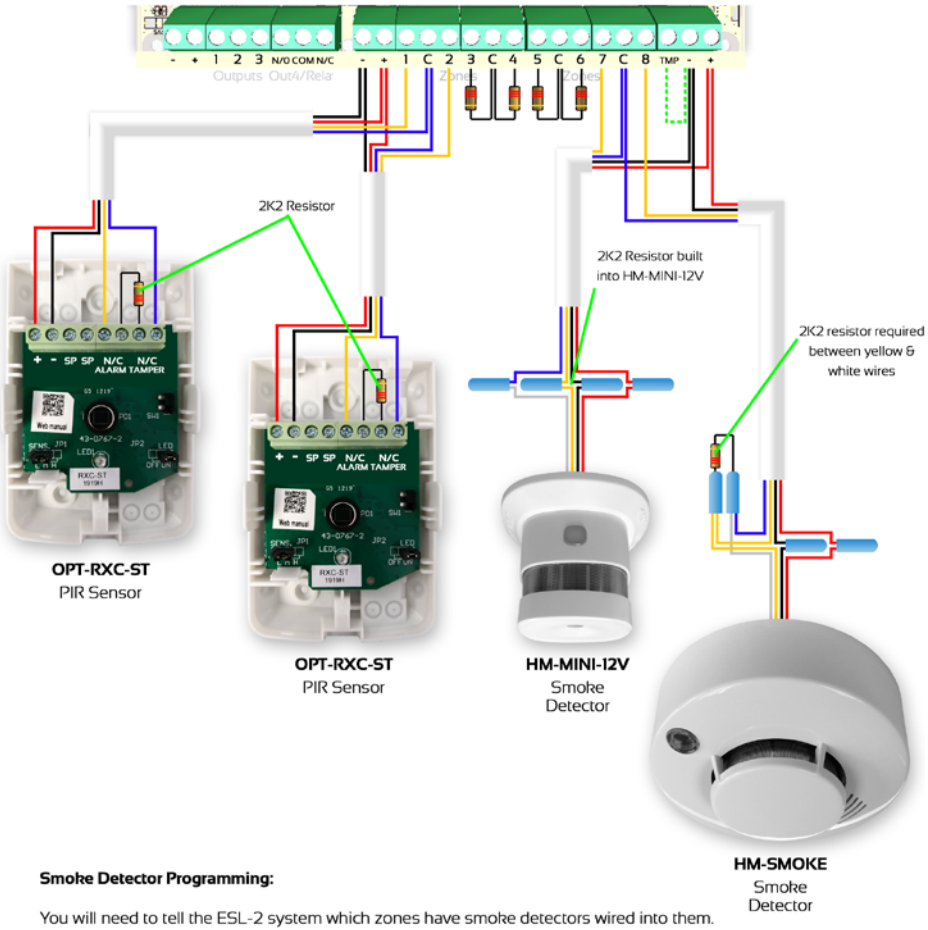
RX-16 MF349
www.aap.co.nz/rx16

TRX
www.aap.co.nz/trx

FW2
www.aap.co.nz/fw2

Integrated Smoke Detection (optional upgrade)

12VDC smoke detectors can also be added to the ESL-2 system to monitor fire. See below for some examples:



Smoke Detector Programming:

You will need to tell the ESL-2 system which zones have smoke detectors wired into them. This is done by making the zone active 24 hours. See below for programming:

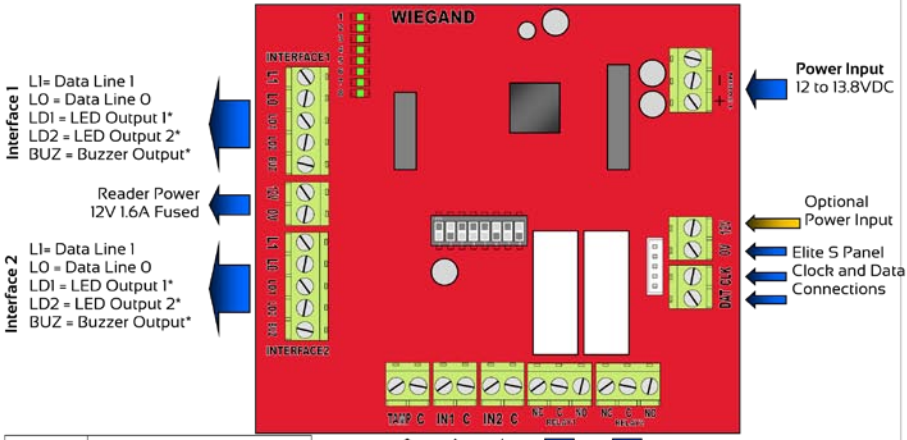
- Enter install mode
- Press P 123 E 8 E 5 E - In this example '8' is the zone you are working on and '5' is the programming option for 24hr fire zone

Below are some examples of making other zones 24hr fire zones:

- P 123 E 7 E 5 E - This would make zone 7 a 24hr fire zone
- P 123 E 5 E 5 E - This would make zone 5 a 24hr fire zone

'5' Represents 24hr Fire Zone at Address 123. See Full Manual For More Information (link on next page)
Zone Number
Address

WIEGAND-IF2 INSTRUCTIONS (ELITE S SYSTEM)



LED	Function
1	Input 1 Unsealed
2	Interface 1, LED 1 Output
3	Interface 1, LED 2 Output
4	Interface 1, Buzzer Output
5	Input 2 Unsealed
6	Interface 2, LED 1 Output
7	Interface 2, LED 2 Output
8	Interface 2, Buzzer Output

Tamper
Not Active on Elite S system

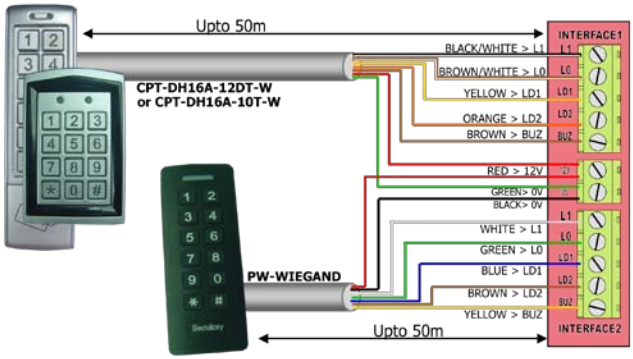
Input 1
Linked to Zone set on Dipswitch (2K2 EOL)

Input 2
Linked to Zone set on Dipswitch (2K2 EOL)

Relay 2
10Amp 250VAC Linked to Output set on Dipswitch

Relay 1
10Amp 250VAC Linked to Output set on Dipswitch

INTERFACE CONNECTIONS:



TERMINAL	FUNCTION
LI	DATA LINE 1 (DI)
LO	DATA LINE 0 (D0)
LDI	LED 1 (Programmable under address P98E of Elite-S Manual)
LD2	LED 2 (fixed to button response)
BUZ	BUZZER (programmable under keypad options of Elite-S Manual)
I2V	+I2VDC 1.6A Outlet
0V	-0VDC/Common Outlet

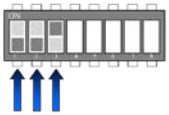
Interface-1 (Keypad Address 1-8 set on Dipswitch 1, 2 & 3 see pg2)
Compatible Readers: CPT-DH16A or PW-WIEGAND

Interface-2 (Keypad Address 2-8 set on Dipswitch 4, 5 & 6 see pg2)
Compatible Readers: CPT-DH16A or PW-WIEGAND

NOTE: # & * = ENTER
On CPT Keypads both the * & # are used as enter buttons.

WIEGAND-IF2 Programming

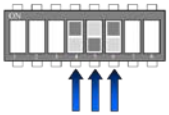
DIPSWITCH OPTIONS: (ELITE S ONLY) *NOT FOR ELITE SX SYSTEM*



Interface 1 Can be set to Keypad Address 1 to 8 using Dipswitches 1, 2 & 3 These Dipswitches also Link Relay 1 to an Output and Input 1 to a Keypad Zone.

Interface 1, Keypad Address Assignment					
IF-1	DIP 1	DIP 2	DIP 3	RELAY-1 Linked to	INPUT-1 Linked to
KP Address 1	OFF	OFF	OFF	Output 1	Zone 1 or 9
KP Address 2	ON	OFF	OFF	Output 2	Zone 2 or 10
KP Address 3	OFF	ON	OFF	Output 3	Zone 3 or 11
KP Address 4	ON	ON	OFF	Output 4	Zone 4 or 12
KP Address 5	OFF	OFF	ON	Output 5	Zone 5 or 13
KP Address 6	ON	OFF	ON	Output 6	Zone 6 or14
KP Address 7	OFF	ON	ON	Output 7	Zone 7 or 15
KP Address 8	ON	ON	ON	Output 8	Zone 8 or 16

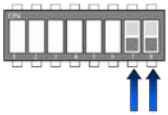
Example: If Dipswitches 1 & 2 are Off and 3 is On then the device wired to IF-1 will be on Keypad address 5. Also Relay-1 will follow Output 5 and Input-1 can be programmed to be either Zone 5 or 13 in the Elite S.



Interface 2 Can be set to Keypad Address 2 to 8 using Dipswitches 4, 5 & 6 These Dipswitches also Link Relay 2 to an Output and Input 2 to a Keypad Zone.

Interface 2, Keypad Address Assignment					
IF-2	DIP 4	DIP 5	DIP 6	RELAY-2 Linked to	INPUT-2 Linked to
Disabled	OFF	OFF	OFF	None	None
KP Address 2	ON	OFF	OFF	Output 2	Zone 2 or 10
KP Address 3	OFF	ON	OFF	Output 3	Zone 3 or 11
KP Address 4	ON	ON	OFF	Output 4	Zone 4 or 12
KP Address 5	OFF	OFF	ON	Output 5	Zone 5 or 13
KP Address 6	ON	OFF	ON	Output 6	Zone 6 or14
KP Address 7	OFF	ON	ON	Output 7	Zone 7 or 15
KP Address 8	ON	ON	ON	Output 8	Zone 8 or 16

Example: If Dipswitches 4 & 6 are On and 5 is Off then the device wired to IF-2 will be on Keypad address 6. Also Relay-2 will follow Output 6 and Input-2 can be programmed to be either Zone 6 or 14 in the Elite S.

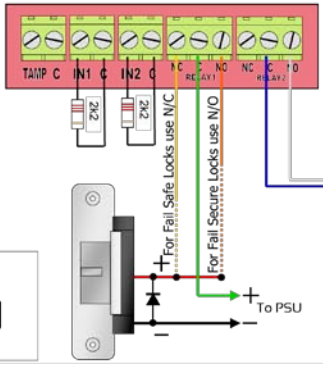


Choose the Interface Protocol to match your Wiegand devices

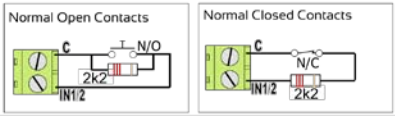
Interface Protocol			
	DIP 7	DIP 8	
Competition	OFF	OFF	Elite S Standard mode
AC-2 Mode	ON	OFF	Turns # key into Prog function, (for use on AC-2)
Spare	OFF	ON	
Spare	ON	ON	

INPUTS & OUTPUTS:

To activate Input-1 and 2 you must first set the Dip switches (see tables above) this will give you 2 optional Zones to for each Input to choose from.
Then you will need to program that zone to be a Keypad Zone, make it a Chime Zone and link it to an Output.
Please follow the programming on pg5.



Both Relay-1 & 2 have clean volt free, normally open and normally closed contacts.
The Relays are linked to outputs on the panel using the Dipswitches (see tables above) All Output functions are programmed from the Elite-S, please see pg4 for programming assignment.

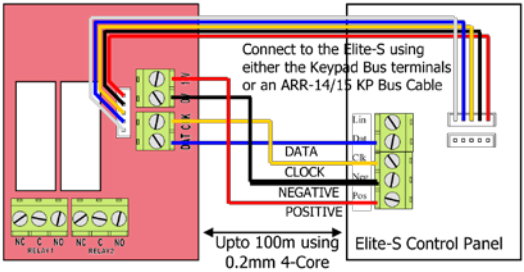


WIEGAND-IF2 Programming

Panel Connection & Power Supply Options:

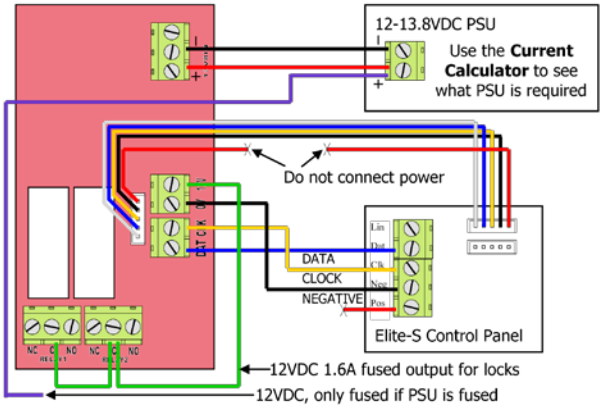
Powered from Elite-S

Maximum current available down 1 cable from the keypad bus is 200mA. So no locks can be driven from this power source and only 1 Keypad Interface should be used.



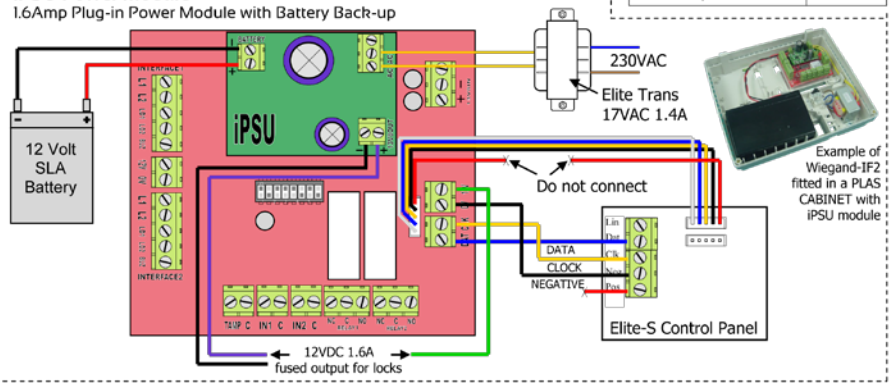
Independent PSU

Output Voltage should be 12 to 13.8VDC, (Battery Back-up is recommended).



iPSU Power Module

1.6Amp Plug-in Power Module with Battery Back-up



Current Calculator

Device	Max. Current
Wiegand-IF2	100mA
Reader-1	
Reader-2	
Lock-1	
Lock-2	
REX	
Subtotal	
+30% overhead	
Total Required	

Current Draw Table	
Wiegand-IF2	100mA
Competition Reader	100mA
PW Wiegand	100mA
Strike Lock	250mA
Mag Lock	500mA
Door Hold	200mA
Drop Bolt	1000mA
Prox REX	50mA

Example	Current
Wiegand-IF2	100mA
Reader-1=Competition	100mA
Reader-2= PW Wiegand	100mA
Lock-1 = Mag Lock	500mA
Lock-2 = Strike Lock	250mA
REX = Prox REX	50mA
Subtotal	1100mA
+30% overhead	330mA
Total Required	**1430mA**

WIEGAND-IF2 Programming

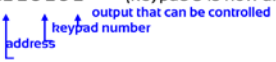
Programming: (FOR ELITE S ONLY)

Please note that programming can not be done from the Wiegand keypads attached to the Wiegand-IF2. It can only be done from the standard alarm keypads.

Keypad Mapping to Outputs

The Elite S can support up to 8 Keypads, each Keypad can be told to control any of the 8 outputs.
By default outputs 1 & 2 are for Sirens, leaving outputs 3, 4, 5, 6, 7 & 8 free to be customized as you wish.
To map a keypad to an output, you must be in Installer mode, then press **<PROGRAM> <82> <ENTER>** then the Keypad you wish to Map **<1-8>** then **<ENTER>**, now select the Output or Outputs that are to be controlled **<1-8>** then **<ENTER>.**

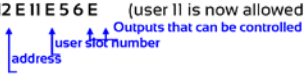
i.e. **P 82 E 5 E 5 E** (keypad 5 is now allowed to use output 5)



User/Tag Mapping to Outputs

When setting up User to Output Control, you will need to map a User to an output. This is done under address 12, user slot 1-100, each user gets set up individually. To Map a user to an output, you must be in Installer mode, then press **<PROGRAM> <12> <ENTER>** then the user you wish to Map **<1-100>** then **<ENTER>**, now select the Output or Outputs that are to be controlled **<1-8>** then **<ENTER>.**

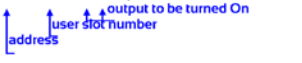
i.e. **P 12 E 10 E 5 E** (user 10 is now allowed to use output 5)
P 12 E 11 E 5 6 E (user 11 is now allowed to use output 5 and 6)



User/Tag On Command to Outputs

Once users have been Mapped to an Output you then need to tell each user what they can do to that output. This is done under address 13, user slot 1-100, each user gets setup individually. To allow a user to turn On an Output, you must be in Installer mode then press **<PROGRAM> <13> <ENTER>** then a user you have Mapped **<1-100>** and **<ENTER>**, now select the Output/s that is to be controlled **<1-8>** and **<ENTER>.**

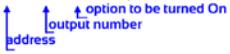
i.e. **P 13 E 10 E 5 E** (user 10 will now turn On Output 5)
P 13 E 11 E 5 6 E (user 11 will now turn On Output 5 and 6)



Output Options

To complete the User to Output Control programming, you will need to tell the Output it is allowed to be controlled by Users. This is done at address 34. In Installer mode press **<PROGRAM> <34> <ENTER>** then choose the output **<1-8>** and **<ENTER>**, now turn ON option **<6>** and **<ENTER>**.

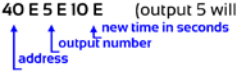
i.e. **P 34 E 5 E 6 E** (users are now allowed to control output 5).



Output Reset Times

This is how long the Output will switch on for, before turning off automatically. The Time is in seconds.
In Installer Mode press **<PROGRAM> <40> <ENTER>** then the output you wish to change **<1-8>** and **<ENTER>** now put in the new reset time **<0-9999>** and **<ENTER>**.

i.e. **P 40 E 5 E 10 E** (output 5 will now automatically turn Off after 10 seconds).



Other Useful Addresses

P 1 E 1-100 E	Adding User Codes (for adding, changing and deleting user codes)	*page 37*
P 4 E 1-100 E	Changing User Access Options (can a user Arm/Disarm)	*page 38*
P 21 E 1-100 E	Adding Prox Tags/Cards (enrol a prox device to a user slot)	*page 43*
P 2 E 1-100 E	Changing User Type (user slot is a pin code, a prox device or both and/or)	*page 37*
P 71 E 1-8 E	Keypad Area Assignment (if a keypad is not in an area it can't arm or disarm)	*page 57*
P 134 E 1-16 E	Zone Alarm Beeps to Keypad (what keypad will beep when alarm activates)	*page 73*

**Page numbers refer to Full Elite S Manual*

WIEGAND-IF2 Programming

Input Assignment

Once the Dipswitches have been set (see pg2) the desired zone needs to be set to be a Keypad Zone. This is done at address 122. In Installer mode press **<PROGRAM> <122> <ENTER>** then choose the zone **<1-16>** and **<ENTER>**, now turn ON option **<4>** and **<ENTER>**.

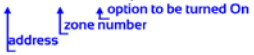
i.e. **P 122 E 13 E 4 E** (zone 13 now looks to the keypad bus for activity).



Zone to Output Direct Control (REX Input)

If the zone is required to directly control an output, for use like a request to exit trigger, then the zone needs to be setup as a Chime Zone. This is done at address 123. In Installer mode press **<PROGRAM> <123> <ENTER>** then select the zone **<1-16>** and **<ENTER>**, now turn ON option **<7>** and **<ENTER>**.

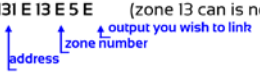
i.e. **P 123 E 13 E 7 E** (zone 13 can directly control an output).



Mapping Chime Zone to an Output

Once you have set a zone to be a chime zone, you will then need to link it to an output. This is done at address 131. In Installer mode press **<PROGRAM> <131> <ENTER>** then select the zone **<1-16>** and **<ENTER>**, now choose the output **<1-8>** and **<ENTER>**.

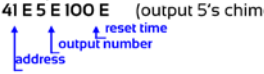
i.e. **P 131 E 13 E 5 E** (zone 13 can is now linked to output 5).



Output Chime Reset Time

The direct control via chime zone feature, uses a separate reset timer to the normal output reset time. This timer is changed at address 41 and is set in 0.1second intervals. In Installer mode press **<PROGRAM> <41> <ENTER>** then select the output **<1-8>** and **<ENTER>**, now put in the new time **<0-255>** and **<ENTER>**.

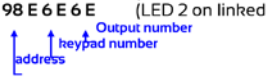
i.e. **P 41 E 5 E 100 E** (output 5's chime reset time is now 10seconds).



LED 2 Assignment

You can program the second LED on both Interface 1 and 2 to follow an output. A good idea is to link it to the same Output that gets controlled by that keypad, so what the lock is released the LED turns on. In Installer mode press **<PROGRAM> <98> <ENTER>** then select the Keypad linked to the Interface **<1-8>** and **<ENTER>**.
Now choose an output/s for LED 2 to follow **<1-8>** and **<ENTER>**.

i.e. **P 98 E 5 E 5 E** (LED 2 on linked to Keypad 5 now follows Output 5).
P 98 E 6 E 6 E (LED 2 on linked to Keypad 6 now follows Output 6).





PW WIEGAND SPECIAL BACKLIGHT FEATURE

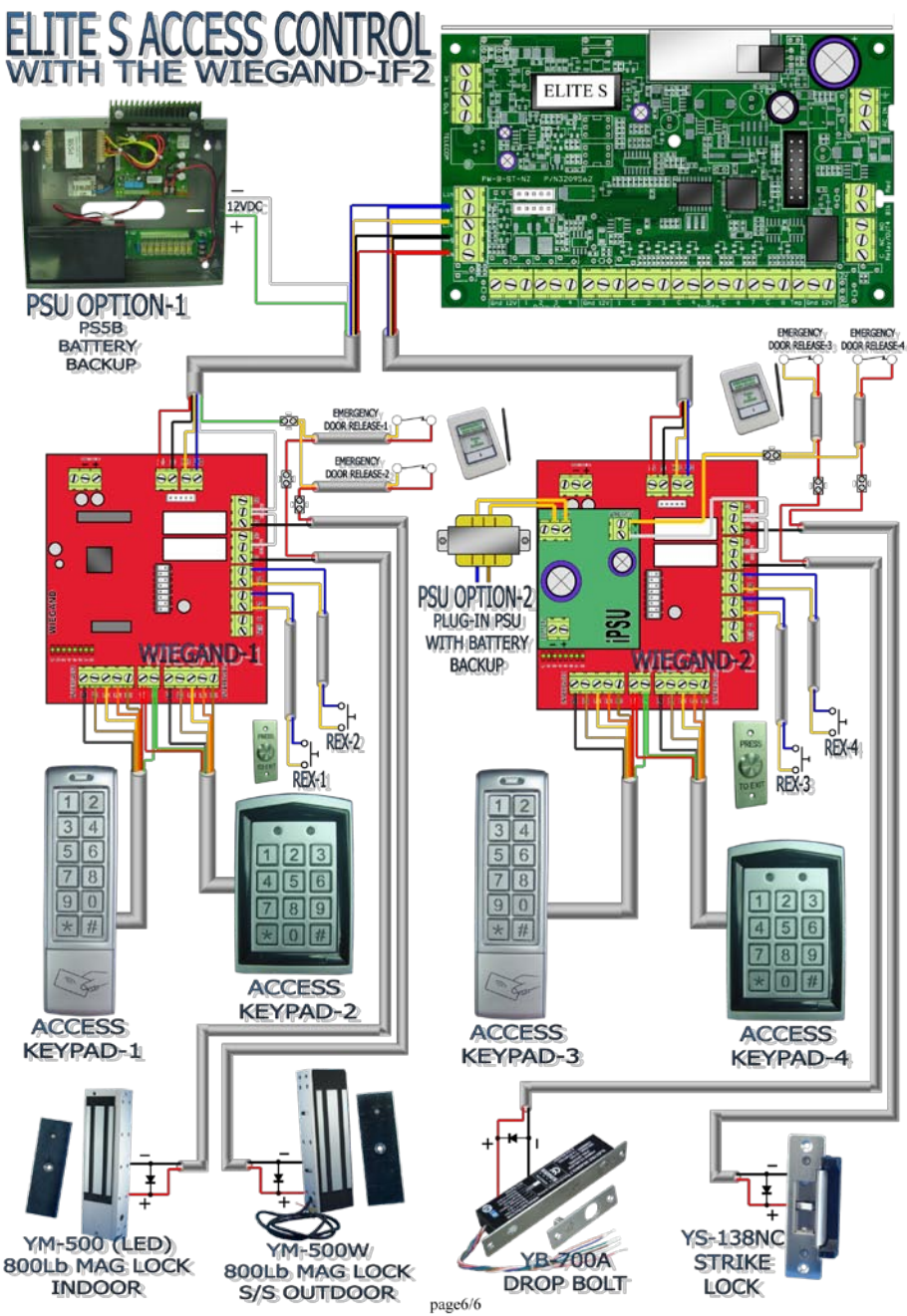
The PW Wiegand device has the ability to automatically turn off its backlight after 20 seconds if no keys are pressed. *(feature not supported on CPT-DH16A models)*

To turn this feature Off press and hold the # key for 10 seconds. (the green led will flash to confirm)

To turn this feature On press and hold the # key for 10 seconds. (the green LED will flash 4 times)

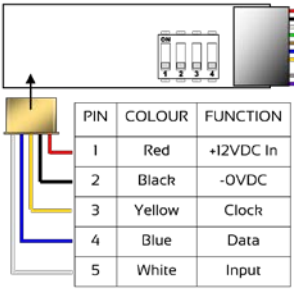
ARROWHEAD ALARM PRODUCTS Ltd.
344b Rosedale Rd,
Albany,
Auckland.
Ph. 09 414 0085
Fax. 09 414 0088
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NEW ZEALAND MADE


ELITE S ACCESS CONTROL
WITH THE WIEGAND-IF2
ELITE S
12VDC
PSU OPTION-1
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BATTERY
BACKUP
EMERGENCY DOOR RELEASE-1
EMERGENCY DOOR RELEASE-2
EMERGENCY DOOR RELEASE-3
EMERGENCY DOOR RELEASE-4
WIEGAND-1
WIEGAND-2
PSU OPTION-2
PLUG-IN PSU
WITH BATTERY
BACKUP
iPSU
REX-1
REX-2
REX-3
REX-4
ACCESS KEYPAD-1
ACCESS KEYPAD-2
ACCESS KEYPAD-3
ACCESS KEYPAD-4
YM-500 (LED)
800Lb MAG LOCK
INDOOR
YM-500W
800Lb MAG LOCK
S/S OUTDOOR
YB-700A
DROP BOLT
YS-138NC
STRIKE
LOCK
page6/6

WIEGAND-MINI INSTRUCTIONS

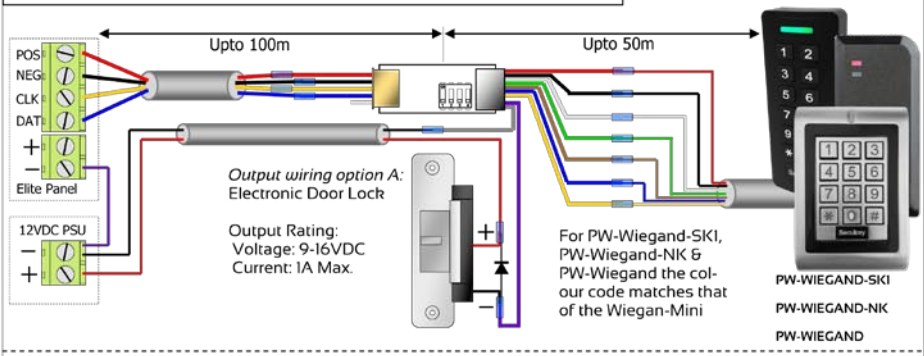
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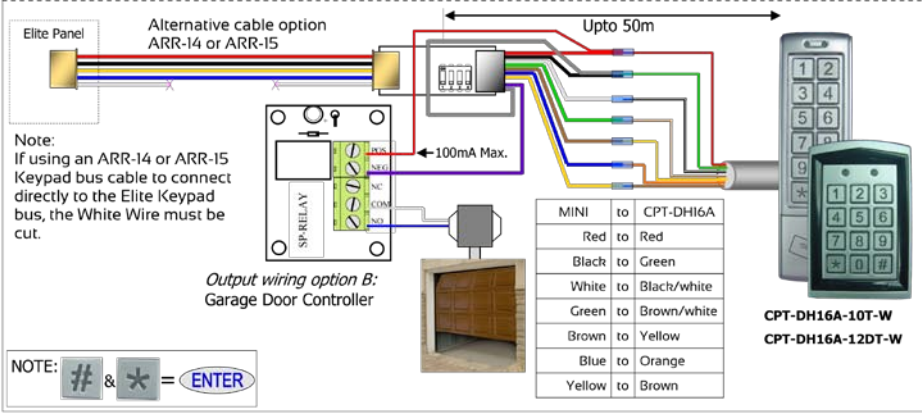


PIN	COLOUR	FUNCTION
1	Red	+12VDC In
2	Black	-0VDC
3	Yellow	Clock
4	Blue	Data
5	White	Input

PIN	COLOUR	FUNCTION
1	Red	+12VDC 100mA Outlet
2	Black	-0VDC/Common Outlet
3	White	DATA LINE 1 (D1)
4	Green	DATA LINE 0 (D0)
5	Brown	LED 1 (Programmable under address P98E of Panel Manual)
6	Blue	LED 2 (fixed to button response)
7	Yellow	BUZZER (programmable under keypad options of Panel Manual)
8	N/A	
9	Grey	Output (Negative In)
10	Purple	Output (Negative Out)

READER CONNECTIONS:

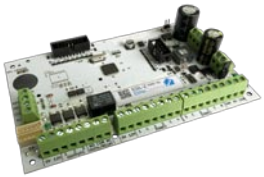


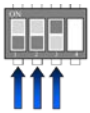


MINI	to	CPT-DH16A
Red	to	Red
Black	to	Green
White	to	Black/white
Green	to	Brown/white
Brown	to	Yellow
Blue	to	Orange
Yellow	to	Brown

NOTE: # & * = ENTER

DIPSWITCH OPTIONS: (ESL-2 System) *NOT FOR ELITE SX SYSTEM*





Wiegand Interface, Keypad Address Assignment						
IF-1	DIP 1	DIP 2	DIP 3	DIP 4	RELAY-1 Linked	INPUT-1 Linked
KP Address 1	OFF	OFF	OFF	OFF	Output 1	Zone 1 or 9
KP Address 2	ON	OFF	OFF	OFF	Output 2	Zone 2 or 10
KP Address 3	OFF	ON	OFF	OFF	Output 3	Zone 3 or 11
KP Address 4	ON	ON	OFF	OFF	Output 4	Zone 4 or 12
KP Address 5	OFF	OFF	ON	OFF	Output 5	Zone 5 or 13
KP Address 6	ON	OFF	ON	OFF	Output 6	Zone 6 or 14
KP Address 7	OFF	ON	ON	OFF	Output 7	Zone 7 or 15
KP Address 8	ON	ON	ON	OFF	Output 8	Zone 8 or 16

The Interface Can be set to Keypad Address 1 to 8 using Dipswitches 1, 2 & 3 These Dipswitches also Set Output and Input.

Example: If Dipswitches 1 & 2 are Off and 3 is On then the device wired will be on Keypad address 5. Also Output will follow Output 5 and Input can be programmed to be either Zone 5 or 13 in the Elite S.

Note. Power down the board if Dipswitches are charged.



PW WIEGAND/NK/SKI SPECIAL BACKLIGHT FEATURE

The PW Wiegand device has the ability to automatically turn off its backlight after 20 seconds if no keys are pressed. *(feature not supported on CPT-DHI6A models)*

To turn this feature Off press and hold the # key for 10 seconds. (the green led will flash to confirm)

To turn this feature On press and hold the # key for 10 seconds. (the green LED will flash 4 times)

WIEGAND-MINI Programming

Please note that programming can not be done from the Wiegand keypads attached to the Wiegand-MINI. It can only be done from the standard alarm keypads.

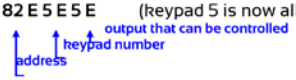
For ESL & Elite-S follow <?> (in Green). For ESX follow <?> (in Red).

Keypad Mapping to Outputs

Done already on ESL-2

Each Keypad can be told to control any of the available outputs on the Elite System.
By default outputs 1 & 2 are for Sirens, so it is recommend to choose others.
To map a keypad to an output, you must be in Installer mode, then press **<PROGRAM> <82> <ENTER>** then the Keypad you wish to Map **<1-8><1-32>** then **<ENTER>**, now select the Output or Outputs that are to be controlled **<1-8><01-32>** then **<ENTER>**.

i.e. **P 82 E 5 E 5 E** (keypad 5 is now allowed to use output 5)

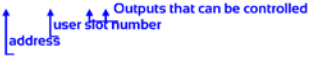


User/Tag Mapping to Outputs (not required on ESX system)

Done already on ESL-2

When setting up User to Output Control, you will need to map a User to an output. This is done under address 12, user slot 1-100, each user gets set up individually. To Map a user to an output, you must be in Installer mode, then press **<PROGRAM> <12> <ENTER>** then the user you wish to Map **<1-100><1-2000>** then **<ENTER>**, now select the Output or Outputs that are to be controlled **<1-8><01-32>** then **<ENTER>.**

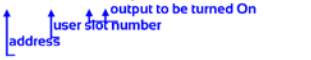
i.e. **P 12 E 10 E 5 E** (user 10 is now allowed to use output 5)
P 12 E 11 E 5 6 E (user 11 is now allowed to use output 5 and 6)



User/Tag On Command to Outputs

Once users have been Mapped to an Output you then need to tell each user what they can do to that output.
To allow a user to turn On an Output, you must be in Installer mode then press **<PROGRAM> <13> <ENTER>** then a user you have Mapped **<1-100><1-2000>** and **<ENTER>**, now select the Output/s that is to be controlled **<1-8><01-32>** and **<ENTER>**.

i.e. **P 13 E 10 E 5 E** (user 10 will now turn On Output 5)
P 13 E 11 E 5 6 E (user 11 will now turn On Output 5 and 6)

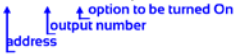


Output Options

Done already on ESL-2

To complete the User to Output Control programming, you will need to tell the Output it is allowed to be controlled by Users. This is done at address 34. In Installer mode press **<PROGRAM> <34> <ENTER>** then choose the output **<1-8><1-32>** and **<ENTER>**, now turn ON option **<6>** and **<ENTER>**.

i.e. **P 34 E 5 E 6 E** (users are now allowed to control output 5).



Output Reset Times

This is how long the Output will switch on for, before turning off automatically. The Time is in seconds.
In Installer Mode press **<PROGRAM> <40> <ENTER>** then the output you wish to change **<1-8><1-32>** and **<ENTER>** now put in the new reset time **<0-9999>** and **<ENTER>**.

i.e. **P 40 E 5 E 10 E** (output 5 will now automatically turn Off after 10 seconds).



Other Useful Addresses

P 1 E 1-100 E Adding User Codes (for adding, changing and deleting user codes)
P 4 E 1-100 E Changing User Access Options (can a user Arm/Disarm)
P 21 E 1-100 E Adding Prox Tags/Cards (enrol a prox device to a user slot)
P 2 E 1-100 E Changing User Type (user slot is a pin code, a prox device or both and/or)
P 71 E 1-8 E Keypad Area Assignment (if a keypad is not in an area it can't arm or disarm)
P 134 E 1-16 E Zone Alarm Beeps to Keypad (what keypad will beep when alarm activates)

WIEGAND-MINI Programming

Input Assignment

Once the Dipswitches have been set (see pg2) the desired zone needs to be set to be a Keypad Zone. This is done at address 122. In Installer mode press **<PROGRAM> <122> <ENTER>** then choose the zone **<1-16><1-32>** and **<ENTER>**, now turn ON option **<4>** and **<ENTER>**.

i.e. **P 122 E 13 E 4 E** (zone 13 now looks to the keypad bus for activity).

address | zone number | option to be turned On

Zone to Output Direct Control (REX Input)

If the zone is required to directly control an output, for use like a request to exit trigger, then the zone needs to be setup as a Chime Zone. This is done at address 123. In Installer mode press **<PROGRAM> <123> <ENTER>** then select the zone **<1-16><1-32>** and **<ENTER>**, now turn ON option **<7>** and **<ENTER>**.

i.e. **P 123 E 13 E 7 E** (zone 13 can directly control an output).

address | zone number | option to be turned On

Mapping Chime Zone to an Output

Once you have set a zone to be a chime zone, you will then need to link it to an output. This is done at address 131. In Installer mode press **<PROGRAM> <131> <ENTER>** then select the zone **<1-16><1-32>** and **<ENTER>**, now choose the output **<1-8><01-32>** and **<ENTER>**.

i.e. **P 131 E 13 E 05 E** (zone 13 can is now linked to output 5).

address | zone number | output you wish to link

Output Chime Reset Time

The direct control via chime zone feature, uses a separate reset timer to the normal output reset time. This timer is changed at address 41 and is set in 0.1second intervals. In Installer mode press **<PROGRAM> <41> <ENTER>** then select the output **<1-8><1-32>** and **<ENTER>**, now put in the new time **<0-255>** and **<ENTER>**.

i.e. **P 41 E 5 E 100 E** (output 5's chime reset time is now 10seconds).

address | output number | reset time

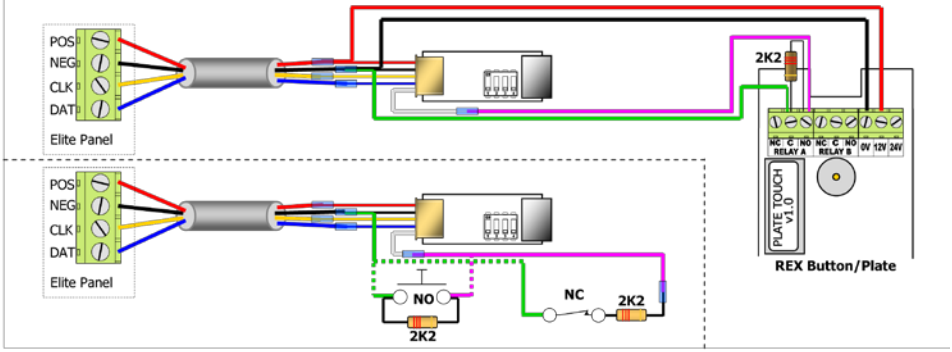
Green LED Assignment

You can program the second LED on both Interface 1 and 2 to follow an output. A good idea is to link it to the same Output that gets controlled by that keypad, so what the lock is released the LED turns on. In Installer mode press **<PROGRAM> <98> <ENTER>** then select the Keypad linked to the Interface **<1-8><1-32>** and **<ENTER>**. Now choose an output/s for LED 2 to follow **<1-8><01-32>** and **<ENTER>**.

i.e. **P 98 E 5 E 5 E** (LED 2 on linked to Keypad 5 now follows Output 5).
P 98 E 6 E 6 E (LED 2 on linked to Keypad 6 now follows Output 6).

address | keypad number | Output number

INPUT WIRING:



Input Configurations

The ELITE S has 9 separate programmable monitored analogue inputs,

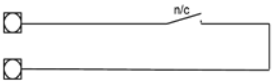
8 x Programmable, multi-state detection inputs
1 x Programmable tamper input (with optional Key-switch functions)

Each input must be terminated with the appropriate value or combination of end-of-line resistors, even if the input is unused.

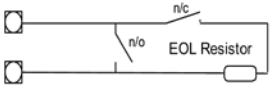
ZONE INPUTS - Each of the 8 zone inputs can be assigned one of the following End of Line (EOL) configuration options

Zone EOL Type (PI25E)	Input Resistor	Comments
0	(Short circuit)	Loop EOL
1	1k (Brown, Black, Red)	Single EOL
2	1k5 (Brown, Green, Red)	Single EOL
3 (PI26E "Vibration Mode" only supports this EOL value)	2k2 (Red, Red, Red)	Single EOL
4	3k3 (Orange, Orange, Red)	Single EOL
5	3k9 (Orange, White, Red)	Single EOL
6	4k7 (Yellow, Violet, Red)	Single EOL
7	5k6 (Green, Blue, Red)	Single EOL
8	6k8 (Blue, Grey, Red)	Single EOL
9	10k (Brown, Black, Orange)	Single EOL
10	12k (Brown, Red, Orange)	Single EOL
11	22k (Red, Red, Orange)	Single EOL
12	2k2 Tamper, 4k7 Zone	Zone & Tamper
13	3k3 Tamper, 6k8 Zone	Zone & Tamper
14	2k2 Tamper, 4k7 Low Zone, 8k2 High Zone	Zone Doubling, with Tamper
15	4k7 Low Zone, 8k2 High Zone	Zone Doubling, No tamper

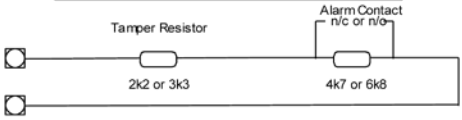
Type 0 (Short/Loop Circuit)



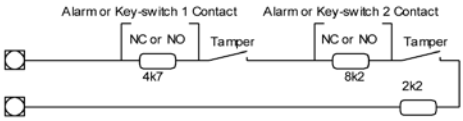
Type 1-11 (Single EOL no Tamper)



Type 12-13 (Single Zone with Tamper)

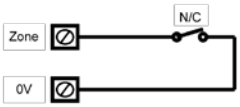


Type 14 (Zone Doubling with Tamper)

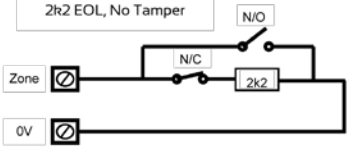


Zone Wiring Examples

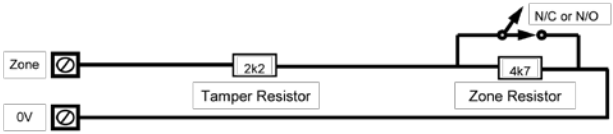
Short circuit loop, No EOL



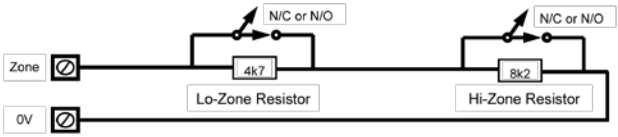
2k2 EOL, No Tamper



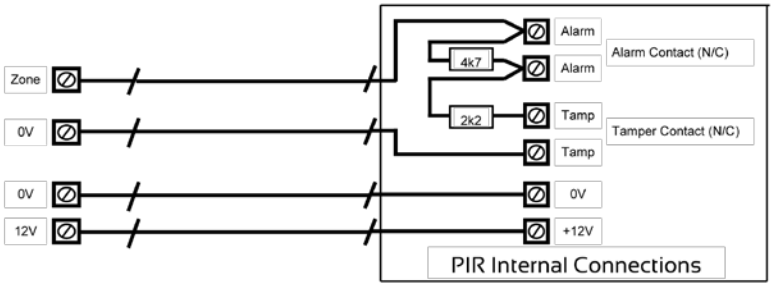
Type 12 Configuration. Alarm & Tamper monitoring (contacts can be N/C or N/O)



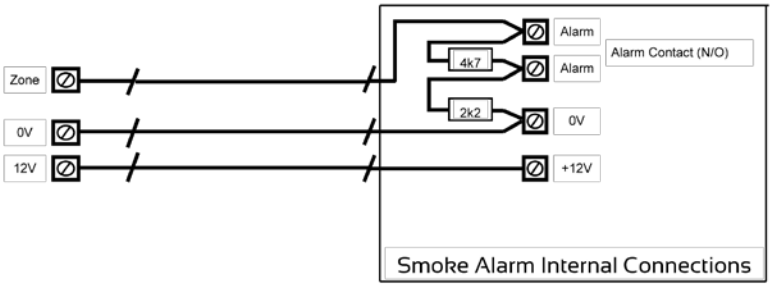
Type 15 Configuration. Zone Doubling, NO Tamper (contacts can be N/C or N/O)



Wiring a PIR Detector (N/C) for Alarm & Tamper Monitoring



Wiring a Smoke Detector (N/O) for Alarm & Tamper Monitoring



Other Inputs

INPUTS

TAMPER
A 24Hr tamper circuit is available for monitoring system tampers. This Tamper circuit is programmable as either normally closed loop or 2k2 EOL supervision (the default is normally closed loop). Any Tamper alarms on this input are mapped to alarm outputs in the same manner as for detection zones 1-16. Using Dual-End-of-Line resistors (Refer to Zone Type 15 on Page 6) the Tamper input can also provide two key-switches. The Low key-switch (4k7 resistor) will be Key-switch 1 while the High key-switch (8k2 resistor) will be Key-switch 2.

In addition to the Zone & Tamper inputs, you will find the following additional inputs on the control PCB;

AC
Connect the 17VAC yellow wires (no polarity) from the transformer to the terminals marked AC on the PCB. The panel includes a mains transformer rated at 1.4 amps at 17 VAC.

EARTH
Connect the mains earth to the appropriate terminal on the mains terminal block in the control box cabinet. Also connect a lead from this earth point to the terminal marked with the Earth symbol (next to AC terminals) on the panel PCB.

BATTERY
Connect a sealed lead acid rechargeable 12VDC battery to the terminals labelled red and black on the control panel being careful to observe the correct polarity. The minimum recommended battery capacity is 7 amp hours. Battery charge current at these terminals is limited to 300mA maximum. The battery connection is protected against short circuits by a thermal fuse (F1). The panel performs a dynamic load test on the battery every 15 seconds and if it fails the test at any time it will flash the Battery LED.

LINE IN
These terminals are used to connect the panel to the incoming telephone line. The dialler uses this line for reporting alarm events. An ADSL filter will be required before the Line In terminals if ADSL is present in the building.

LINE OUT
These terminals are used to connect telephones and other communication equipment to the incoming phone line via the panel dialler circuit. The telephone line is passed through the controller to ensure that the line is available to the controller when it is required.

Outputs

OUTPUTS

12 VOLT OUTPUTS
There are three 12VDC outputs on the panel PCB. These 12 volt outputs are regulated and Thermal fuse protected against short circuits. The accessory outputs are marked 12V and 0V, while the keypad buss 12V supply is labelled "POS" & "NEG". The 12V outputs are supplied by thermal fuses F2 & F3. The recommended maximum total load that should be drawn from all of the 12V outputs is 1A.

OUTPUTS 1 & 2
These fully programmable, high current, open drain (high-going-low) type FET outputs capable of switching up to 1.5A @ 12VDC. These 2 outputs are normally set as switched outputs, providing power for 12V sirens or piezos. If required, these outputs can be programmed to be siren outputs designed to drive an 8 ohm 10 watt horn speaker on each output (see P37E option 1). Also if a horn speaker is connected to Output #1 you may select (Refer to P175E 7E program address) the listen-in feature to this output as well so that the dialling sequence can be heard at the speaker.

OUTPUT 3 & 4
These are low current, open collector (high-going-low) type transistor outputs capable of switching up to 400mA. Like Outputs 1 & 2 they are fully programmable.
NOTE: - Connecting devices that draw current in excess of 400mA to outputs 3 or 4 will damage the output.

OUTPUT 4 Relay
This is a relay output (rated 1A@30VDC) that works in parallel with the transistor output with single pole changeover contacts. If required, the Common (C) contact of the relay can be connected to either 12V or 0V via Link 1. Like Outputs 1 & 2 it is fully programmable.

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 controller. The terminals are connected to corresponding terminals on the remote devices. The "lin" 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. The keypad 12V supply (POS,NEG) is protected by fuse F3.

EXPANSION PORT
The expansion port allows connection of the RS232 serial board, 90 second Voice Board, DTMF Board or EEPROM data transfer board (DTU). The serial board allows direct connection of a PC running the Upload/Download software. The 90 second voice board allows voice messages to be programmed for monitoring purposes. The Voice & DTMF boards allow Touchtone Code remote control via a telephone. The DTU allows for program "Cloning" from one panel to another.

LCD KEYPAD ADDRESS ASSIGNMENT

The ESL-2 can support up to 8 keypads connected to it, however the ESL-2 can only deliver 1.0Amps of current. Check the current draw of the keypads, to make sure you are not overloading the system. Each keypad must be addressed individually to avoid BUS conflicts when multiple users are operating different keypads simultaneously. By default, each keypad comes addressed as KP # 1.
Setting the LCD keypad address is done in "Local Program Mode".

To enter "Local Program Mode" on the Full LCD Keypad you must press and hold the <CONTROL> button down and within 3 seconds press and also hold the <ARM> button until the display shows "Local Mode"..

When in Local Program Mode the display will show local **mode kb 1** with the number 1 meaning the keypad
address is currently 1.

To change the keypad address to be different to others connected on the panel press;

<PROG> 996 <ENTER>

conflict will exist that will cause erratic operation. Each reader or keypad MUST have a different address.

The display will now show;

Keypad number 1

Select an unused address, eg "2" then press <ENTER> to save.

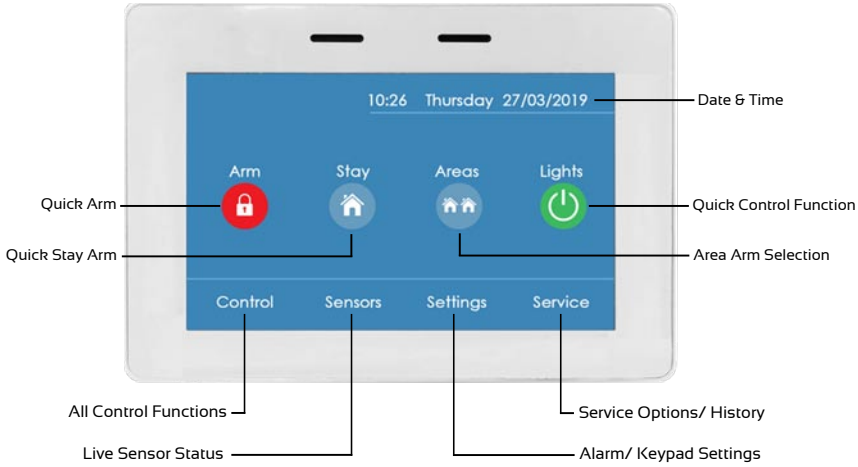
To exit "Local Program Mode" press and hold the <PROG> Button for two seconds. You can select the program location directly as shown above or there is also a menu function to navigate the various options in "Local Edit Mode" that is described in detail on page 21.

If you do not assign a unique address to every keypad and reader connected to the keypad buss, a conflict will exist that will cause erratic operation. Each reader or keypad MUST have a different address.

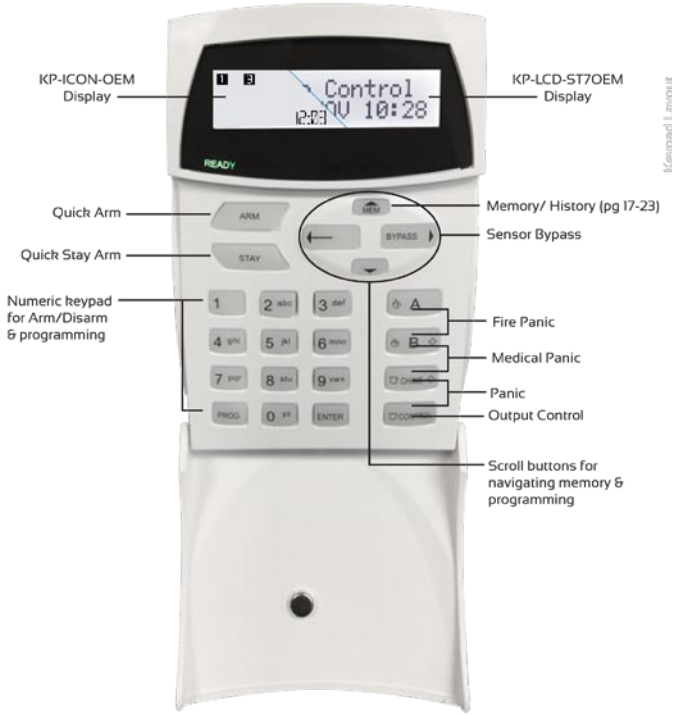


ESL-2 Keypad Layout

KP-TOUCH Layout



KP-ICON-OEM & KP-LCD-ST7OEM



ESL-2 Keypad Display & Brightness

Display & Brightness

KP-TOUCH
- Press the '**Settings**' tab at the bottom right of the home screen
- Now press '**My Settings**'.
- Enter a valid user code followed by the '**ENTER**' button
- Scroll down and press option '**10. Display & Brightness**'.
- Adjust your display and screen saver brightness as desired, then press the '**BACK**' button to exit to the home screen

KP-ICON-OEM
- From the home screem, press '**PROG**', then '**BYPASS**', then 'ENTER'. The display should now read 'LPGM'
- Now press '**PROG**', then '**904**', followed by the'**ENTER**' button. The display should now read '**B/L**'
- Adjust the brightness with the **Up/Down** arrows, then press '**ENTER**' to confirm your desired brightness level.
- Once complete, press '**PROG**' followed by '**ENTER**' to return to the home screen.

KP-LCD-ST7OEM
- Press and hold the '**CONTROL**' button, then within 2 second (while still holding the '**CONTROL**' button) adjust the brightness with each press of the **Left/Right** arrows.

Sensor Naming

KP-ICON-OEM does not support this feature.

KP-TOUCH
- Press the '**Settings**' tab at the bottom right of the home screen
- Now press '**My Settings**'.
- Enter a valid user code followed by '**ENTER**'.
- Scroll down and press option '**5. Sensor Names**'.
- Use the **Left/ Right** arrows to select the sensor you wish to name.
- Enter the new sensor name using the keypad, followed by the '**ENTER**' button to confirm. Press the back button to return to the home screen.
- The new sensor name will be displayed under the '**Sensors**' tab on the home screen.

KP-LCD-ST7OEM
- Enter local programming by holding the '**CONTROL**' button and within 0.5 seconds, also hold the '**ARM**' button for 5 seconds.
- When 'Local Mode KB' is displayed press '**PROG**', then the sensor number you wish to change followed by '**ENTER**' to confirm.
- Enter the sensor name using the alphanumeric keypad and Left/ Right arrows to navigate, then press 'ENTER' to confirm. Repeat the steps above for each sensor.
- Once complete, press the '**PROG**' button until 'Exit Programming' appears on the screen. Then press '**ENTER**'.

ESL-2 Keypad Area Naming

Area Naming

KP-ICON-OEM does not support this feature.

KP-TOUCH
- Press the '**Settings**' tab at the bottom right of the home screen
- Now press '**My Settings**'.
- Enter a valid user code followed by '**ENTER**'.
- Scroll down and press option '**4. Area Names**'.
- Use the **Right/Left** arrows to select the area you wish to name.
- Enter the new area name using the keyboard, followed by the '**ENTER**' button to confirm. Press the back button to return to the home screen.
- The new Area name will be displayed when you arm the system

KP-LCD-ST7OEM
- Enter local programming by holding the '**CONTROL**' button and within 0.5 seconds, also hold the '**ARM**' button for 5 seconds.
- When 'Local Mode KB' is displayed, press the '**Up**' arrow to scroll to '**Area Names**' then press '**ENTER**'
- Use the left/right arrows to scroll to 'Area' 'A' or 'B', followed by '**ENTER**' to confirm Enter the Area name using the alpha numeric keypad and **left/right** arrows to navigate, then press '**ENTER**' to confirm.
- Once complete, press the '**PROG**' button until 'Exit Programming' appears on the screen. Then press '**ENTER**'.
- The new area name will be displayed on the main screen when the system is armed.

Output Naming

KP-ICON-OEM does not support this feature.

KP-TOUCH
- Press the '**Settings**' tab at the bottom right of the home screen
- Now press '**My Settings**'.
- Enter a valid user code followed by '**ENTER**'.
- Scroll down and press '**6. Control Names**'.
- Use the **Left/Right** arrows to select the output you wish to name.
- Enter the new output name using the keyboard, followed by the '**ENTER**' button to confirm.
- Press the back button and your new output name will displayed in the '**CONTROL**' tab from the home screen.

Note: Each output has two names. One under the 'CONTROL' tab on the home screen & one for the control icon on the home screen (short name)

KP-LCD-ST7OEM
- Enter local programming by holding the '**CONTROL**' button and within 0.5 seconds, also hold the '**ARM**' button for 5 seconds.
- When 'Local Mode KB' is displayed, press the **Up/Down** arrows until 'Output Names' is displayed, then press '**ENTER**' to select.
- Use the left/right arrows to navigate to the 'Output' you wish to rename, then press the '**ENTER**' button to select.
- Enter the output name using the alphanumeric keypad and left/right arrows to navigate, then press '**ENTER**' to confirm. Repeat the steps above for each output you wish to rename.
- Once complete, press the '**PROG**' button until 'Exit Programming' appears on the screen. Then press '**ENTER**'.

Exit Program Mode Using LCD Keypad

There are two ways to exit Program Mode with an LCD keypad. To exit either program mode when you have finished programming:

Repeatedly press the <PROG> button until the display shows
"<ENTER> TO EXIT"
Now press <ENTER> to exit Program Mode.,
OR

Press and hold the <PROG> button for 2 seconds to exit program mode

If no buttons are pressed for 4.5 minutes the panel will automatically exit program mode
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 Tampers and 24 hour alarms are disabled which allows quiet access to the panel, detectors and external siren units, etc. On exiting program mode, all inputs are scanned and if any tampers or 24Hr alarms are present an activation will occur.

HOW TO PROGRAM USING LCD KEYPADS

Access to Program Mode when using an LCD Keypad is exactly the same as when using an LED Keypad (see previous page for access to program mode from power-up and normal run mode).
Once in Program Mode (either Client Mode or Installer Mode), the User can still enter program addresses directly at the keypad to go straight to a particular address, as with the LED Keypad.

But the LCD Keypad also incorporates built-in menus that allow the Programmer to move through the Main-Menus using the Up/Down Arrow keys. Also when at a data entry location, the Left/Right Arrows can be used. These special Function Arrow keys are clearly marked on the keypad buttons (the position of the buttons can vary depending on the type of LCD Keypad installed).

When navigating the Menus using the Arrow keys, each button has a special function depending on where you are within the menus.

When you enter program mode the LCD Keypad display automatically defaults to "CLIENT:USER" (if in Client mode) or "INSTALLER:USER" (if in Installer mode). By using the UP or DOWN Arrows, the user can cycle through all of the available menus.

The menus are accessed in a particular order based on the most frequently used program locations. All of the Main and the Sub-Menus are shown on the following pages.

LCD Keypad Menu Programming

The LCD Keypad enables "Manual Free' programming of the ELITE S panel. Easy to follow plain text Menus will be displayed on the keypad to enable selection of the desired programming options.

ENTER <ENTER> key selects the Menu you wish to work in or the option in a Sub-Menu you wish to use.

PROG <PROGRAM> key will step you back to the previous Menu level.

ÇÈ <Up> or <Down> arrow keys will allow you to cycle through the Menu options (Main & Sub Menus).

ÅÆ <Left> or <Right> arrow keys can be used when in the Data Entry-Menus to cycle through the options (eg if in "USERS" Data Entry-Menu, the options would be Users 1-100, if in "ZONES" the options would Zones 1-16, etc)

SELECTING THE MAIN-MENU HEADINGS ("Ç Up" or "È Down" Arrow Keys)

Enter "INSTALLER" Program Mode eg <PROG> - <INSTALLER CODE (000000)> - <ENTER>.

The LCD will display "INSTALLER:USERS". This is the default Main-Menu heading.

To access a desired program location you first navigate to the desired Main-Menu by using the "Ç Up" or "È Down" arrow keys on the keypad. Each press of "Ç Up" or "È Down" arrow keys will advance the display to the next Menu heading.
The Main-Menu headings are shown on the top line of the LCD display.
To access the Sub-Menu options from a Main-Menu press the <ENTER> button.

SELECTING THE SUB-MENU HEADINGS ("Ç Up" or "È Down" Arrow Keys)

Having pressed the <ENTER> button at the selected Main-Menu heading the keypad will now show Sub-Menus for that heading.
The Main-Menu heading will remain on the top line of the LCD display and the Sub-Menus will appear on the bottom line.
Each press of "Ç Up" or "È Down" arrow keys will advance the Sub-Menus displayed on the bottom line either up or down by one location..

To access the Data Entry-Menu options from the Sub-Menu press the <ENTER> button.

SELECTING THE DATA ENTRY-MENU HEADINGS

Having pressed the <ENTER> button at the desired Sub-Menu heading, the keypad will now be in the Data Entry-Mode.

The Main-Menu heading on the top line of the display will be replaced with the actual data entry field description, eg if you had gone from "USERS" to "CODES" then to the data entry field of codes the display will show "USER CODE 1" on the top line of the display and the code "123" on the bottom line ("123" being the default User 1 code). See the chart on page 21 for details.

You can now change the code, eg to change Code # 1 to 4567 press <4567> <ENTER>. The bottom line will now show the new code of "4567".

At this point you can use the "Ç Up" or "È Down" arrow keys to cycle through the other Sub-Menu options for User Code 1 to program all of the options for code 1, or;

You can use the "Å Left" or "Æ Right" arrow keys to cycle through all of the User codes. This allows you to program all of the user codes from 1-100. The "Æ Right" arrow key when pressed will take you up one User at a time and the "Å Left" arrow key will take you down one User, eg if the display was currently showing "USER CODE 10", pressing the "Å Left" arrow key will take the display to "USER CODE 9", pressing the "Æ Right" arrow key will take the display to "USER CODE 11".
You can also use the "Å Left" or "Æ Right" arrow keys to move through all of the User codes, and while at a particular User, you can also use the "Ç Up" or "È Down" arrow keys to program all options for that User.

Selecting the Data Entry-Menu Headings

If you are at a location that has 8 programmable options, eg P4E where the User Arm/Disarm options can be set, by pressing and holding the <CONTROL> button then within 2 seconds pressing the <ENTER> button you can access the sub- text that describes what each option can do. To exit the sub-text display press <ENTER>.

STEPPING BACK THROUGH THE MENUS

If you are in a Menu location, eg the "USER" Data Entry field, and you wish to step back one stage to the previous Sub-Menu, you need to press the <PROG> button.

Each time the <PROG> button is pressed the display will step back to the previous stage (remembering where you were before) until you get back to the Main-Menu.
For example if you were in the "KEYPADS" Main-Menu, then pressed <ENTER> to get to the "AREAS" Sub-Menu for keypads, then pressed <ENTER> again to get to the "AREAS" Data Entry-Menu for keypads, you could now press the <PROG> button once and it would take you back to the "KEYPADS/AREAS" Sub-Menu. Pressing <PROG> again will take you back to the "KEYPADS" Main-Menu, and pressing <PROG> one more time will return you back to the default "USERS" Main-Menu.

If you get back to the "USERS" menu and press the <PROG> button once more the display will go to the program exit menu. If you press <ENTER> when at this point the panel will leave program mode. If you don't wish to leave program mode you can press the <PROG> button again to return to the "USERS" menu.

The flowchart below indicates the program menu steps using the "ARROW" , "ENTER" & "PROGRAM" Buttons on the keypad.

Special Keypad Operating Features

ARMING or DISARMING TWO AREAS at a KEYPAD

If the panel is configured for two Areas "A&B", and the option "ARM" button required before code is turned on (P45E Option 1), there are a number of possible arming options.

If a user code is only assigned to one area and they press <ARM> <CODE> <ENTER> at the keypad, only the Area assigned to their code will Arm.

If a user code is assigned to both areas but the keypad being used is only assigned to one area, pressing <ARM> <CODE> <ENTER> will only arm the area assigned to the keypad.

If a user code is assigned to both areas, the keypad being used is also assigned to both areas, plus the ARM button is assigned to both Areas (P74E), pressing <ARM> <CODE> <ENTER> will put the keypad into a "Ready to Arm" state. On the LCD keypad the display will show "Area/s to Arm" "A B", and on the LED keypad LED's 1 & 2 (LED 1 = Area A & LED 2 = Area B) will turn on.
If you press the <ENTER> button now, both areas A&B will arm. If before pressing the enter button you wish to deselect one of the Areas eg if you only want to arm area B press the number "1" and Area "A" will disappear on the LCD keypad display or the number "1" will turn off on the LED keypad indicating that only area B will arm when the enter button is pressed.
The number "1" will toggle area A on/off and the number "2" will toggle area B on/off.
If you don't do anything the panel will proceed with arming both areas after 10 seconds time has elapsed.
On disarming, after entering <CODE> <ENTER> the display on the LCD keypad will show "Area/s to Disarm" "A B", and on the LED keypad LED's 1 & 2. You can press the <ENTER> button at this point to disarm both areas, select which area you wish to disarm by using the numbers 1 & 2 on the keypad, or if you don't do anything the panel will proceed with disarming both areas after 10 seconds time has elapsed.

LCD QUICKVIEW MODE

If any zones are unsealed when disarmed the LCD keypad will scroll through each unsealed zone displaying the 16 character name for each zone. If a number of zones are unsealed simultaneously it can take sometime for the display to show all of the unsealed zones.
By pressing the <ENTER> button when zones are unsealed the keypad will enter the "Quick-view" mode. When in "Quick-view" mode, each unsealed zone is displayed as a single two digit number eg "01 05 10". Up to 5 unsealed zones maybe displayed at one time. If more than 5 zones are unsealed at the time the display will scroll to the next bank of 5 zones so the user can see quickly which zones are unsealed. To exit "Quick-view" mode you simply press the <ENTER> button again or the keypad will time out automatically in approximately 30 seconds.

TOGGLE CHIME MODE ON/OFF

On the Full LCD and ICON LCD Keypad there is a "CHIME" button. Pressing and holding that button for two seconds will toggle Chime Mode from On-Off or Off-On.
On the LED Keypads, there is no chime button so the Control & Program buttons are used.
By pressing and holding the <CONTROL> button then within 2 seconds also pressing the <PROGRAM> button, you will toggle Chime Mode from On-Off or Off-On. On the LED keypad the "AUX(0)" LED will turn on when chime mode is off.

SEND MANUAL TEST CALL

If the panel is configured for Contact ID reporting and test calls are programmed to report, you can force a manual test call by pressing and holding <CONTROL> followed within 2 seconds by <0>. This will cause a manual test call to be sent to the monitoring company. You can also dial into the panel from a remote site and using the telephone cause a manual test call remotely. See P175E15E and P176E11E for details.

MANUALLY ANSWER AN INCOMING CALL

If the panel is not configured to answer in-coming calls, the user can force it to answer the call by pressing and holding <CONTROL> followed within 2 seconds by <9>. This will make the panel answer the call immediately. For this function to work the phone line must be ringing at the time and there must have been at least two rings

Current Faults & History

		Fault Description
NONE	Nothing is Displayed	There are no current faults with the system
AC	AC Failure	No mains power detected at alarm panel
BATT	Battery Low	Alarm backup battery is low or missing
CF	Call Failure	Alarm has not recieved a response from monitoring/smartphone
KPSA	Keypad Missing	Keypad missing or has been removed from the KP-BUS
LINE	Line Failure	Unable to communicate
OPFS	Output Fuse Fail	12V output on panel has failed, possible short circuit
PBAT	Pendant Battery Low	Smart remote battery low
ZBAT	Zone Battery Low	Wireless sensor battery low
DELQ	Deliquency Alarm	Area has not been armed within the set number of days
ZSUP	Supervised Detector Fail	A supervised sensor has not communicated with the panel
ZSW	Zone Sensor-Watch Alarm	A sensor-watch zone has not triggered within the set time

For colour indications, please refer to Page 3 & 4 to match your keypad.

Viewing Current Faults

KP-TOUCH

A fault is indicated by a red code in the top left corner, to view it:

- Press '**Service**' in the bottom right corner of the home screen
- Now press '**History**'.

A. If the screen is empty, there are no current faults with the system.

B. If there is a fault, use the table **above** to identify the issue.

KP-ICON-OEM

A fault is indicated by the red 'TROUBLE' light on. To view these faults:

- Press the '**Up**' arrow labled '**MEM**' and the caution icon should flash.

A. If 'NONE'is displayed, there are no current faults with the system.

B. If a code comes up, refer to the table on **Page 17** to help identify the issue.

Each press of the up arrow will display the next fault. If the caution icon flashes, you have passed the current faults section and are now viewing the full event history. Refer to **Pages 19-23** for full event history information.

KP-LCD-ST7OEM

A fault is indicated by the red 'TROUBLE' light on. To view these faults:

- Press the '**Up**' arrow labelled '**MEM**' & 'Current Faults' will be displayed

A. If '**No Faults**' is displayed, there are no current faults with the system.

B. If a fault displays, refer to the table on **Page 17** to help identify the issue.

Each press of the up arrow will display the next fault. Once the 'Current Faults' text goes away, you have passed the current faults section and are now viewing the full event history. Refer to **Pages 19-23** for full event history information.

Event History

		Fault Description
12VA	12V Fuse Fail Alarm	A short circuit or over current has activated a fuse. Check devices
12VR	12V Fuse Fail Restore	The short circuit/over current has been removed and been restored
24BR	24Hr Re-instated	A 24 hour alarm has been re-instated after an activation
24BY	24Hr Bypassed	A 24 hour alarm zone has been manually or automatically bypassed
24HA	24Hr Alarm Active	A 24 hour alarm is active
24HR	24Hr Alarm Restore	A 24 hour alarm has been restored and is ready for activation
ACPA	AC Power Fail Alarm	230V AC input has failed. No mains power detected
ACPR	AC Power Fail Restore	230V AC input restored. Mains power is OK
ACRA	AC Fail Reported via Dialler	A 230V AC power loss has been reported via the dialler
ACRR	AC Fail Restore Reported via Dialler	A 230V AC power restore has been reported via the dialler
ATST	Automatic Test Message sent	The alarm panel has successfully reported via the dialler
AUAF	Auto Arm Fail	The panel was not able to auto arm. Check open zones
AUAR	Auto Arm Fail Restore	Auto arming failure has been restored
AWAR	Area Armed by ARM button	Area (A or B) has been armed via the quick arm button
AWKS	Area Armed by Keyswitch	Area (A or B) has been armed via a key-switch
AWPH	Area Armed by Upload/Down-load	Area (A or B) has been armed via the upload/download software
AWPH	Area Armed by DTMF	Area (A or B) has been armed via the diallers DTMF
AWTX	Area Armed by Pendant	Area (A or B) has been armed via a remote pendant
AWTZ	Area Armed by Time Zone	Area (A or B) has been armed via a time zone
AWU	Area Armed by User	Area (A or B) has been armed via a user code from a keypad
BATA	Panel Low Battery	Alarm panels backup battery is low. Contact an installer for more info
BATR	Panel Low Battery Restore	Alarm panels backup battery has successfully been recharged
CCPC	Clock Changed by PC	Alarm panels date/time has been changed via upload/download
CCPN	Clock Changed at panel	Alarm panels date/time has been changed via a keypad
CLBK	Callback Initiated	Calling back last received phone number
CRCE	CRC Error	Invalid/corrupt memory received from EEPROM
DEFL	Panel Defaulted	Alarm panel has been defaulted to factory defaults

Event History

		Fault Description
dELA	Area Delinquency Alarm	Alarm panel has gone into a duress alarm
dELR	Area Delinquency Alarm Restore	Alarm panel duress alarm has restored
dTUP	DTU Data sent to Panel	A panel configuration has been uploaded to alarm via an external source
ECdA	Excessive Code Attempts Alarm	Incorrect user code has been entered too many times
ECdR	Excessive Code Attempts Restore	Excessive code attempts alarm has restored, enter vaild code now
EVKP	Event Buffer Cleared at Keypad	Alarm past events have been cleared via the keypad
EVPC	Event Buffer Cleared from PC	Alarm past events have been cleared via upload/download software
KPdA	Duress Alarm at Keypad	A panic alarm has been manually triggered at a keypad
KPdR	Duress Alarm at Keypad Restore	A manual panic has been restored at a keypad
KPFA	Fire Alarm at Keypad	A manual fire alarm has been activated via a keypad
KPFR	Fire Alarm at Keypad Restore	A manual fire alarm has been restored via a keypad
KPMA	Medical Alarm at Keypad	A manual medical alarm has been activated via keypad
KPMR	Medical Alarm at Keypad Restore	A manual medical alarm has been restored via a keypad
KPPA	Panic Alarm at Keypad	A manual panic alarm has been activate via a keypad
KPPR	Panic Alarm at Keypad Restore	A manual panic alarm has been restored via a keypad
KPSA	Keypad Missing	An alarm keypad has not communicated within expected time frame
KPSR	Keypad Re-Instated	A previsouly missing keypad has restored communications
KPTA	Keypad Tamper Alarm	An alarm keypads tamper alarm has been activated
KPTR	Keypad Tamper Alarm Restore	An alarm keypads tamper alarm has been sealed and disarmed
MTST	Manual Test Message sent	A manual test message has successfully been reported via dialler
OPAR	Area Open by ARM Button	Area has been disarmed via the quick arm button
OPKS	Area Open Normal or Stay by Key-switch	Area (A or B) has been disarmed or set to stay arm via key-switch
OPOF	Output Turned Off by KP/ Control/PC or DTMF	An output of the alarm has been manually turned off via keypad/ upload/download software
OPON	Output Turned On by KP/Control/PC or DTMF	An output of the alarm has been manually turned on via keypad/ upload/download software

Event History

		Fault Description
OPPH	Area Open Normal or Stay by PC or DTMF	Area (A or B) has been set to open or stay via upload/download software or via the diallers DTMF
OPST	Area Open Stay by STAY Button	Area (A or B) has been disarmed (opened) via the quick stay button
OPTA	Output Tamper Alarm	A monitored output has triggered its tamper alarm
OPTR	Output Tamper Alarm Restore	A monitored output has re-sealed its tamper alarm
OPTX	Area Open Normal or Stay by Pendant	Area (A or B) has been disarmed (opened) via a remote pendant
OPTZ	Area Open by Time Zone	Area has been disarmed (opened) automatically via a time zone
OPU	Area Open Normal or Stay by User	Area has been disarmed (opened) via a user code
PCOF	PC to Panel Comms Ended	Communications between PC software and panel has ended
PCON	PC to Panel Comms Started	Communications between PC software and panel has started
PHLA	Telephone Line Failure	Telephone line/dialler communications failure. Check wiring
PHLR	Telephone Line Failure Restore	Telephone line/dialler communications restored to normal operation
PHNA	Dialler Call Un-answered	Call made via dialler was unanswered
PHNK	No Kiss-Off to Dialler Event	No kiss-off via dialler received after event
PRGE	Exit Program Mode	An installer or user has exited programming mode
PRGM	Enter Program Mode	An installer or user has entered programming mode
RCVF	Receiver Fail	A radio receiver has not responded in the expected time frame
RCVR	Receiver Fail Restore	A previously non-responsive radio receiver has responded
RFBA	RF Zone Battery Low	A wireless radio zone (sensors) battery is low. Replace ASAP
RFBR	RF Zone Battery Restore	A wireless radio zones battery has been replaced
RFIA	RF Interference Alarm	The alarm panel has detected RF interference on its radio receiver
RFIR	RF Interference Alarm Restore	There is no more radio interference and has continued to receive
RFSA	RF Zone Supervise Fail Alarm	A supervised zone has not communicated in the expected time
RFSR	RF Zone Supervise Fail Restore	A previously unresponsive supervised zone has communicated
RFTA	RF Zone Tamper Alarm	A radio zone's tamper has been triggered
RFTR	RF Zone Tamper Restore	A radio zone's tamper has been restored/sealed

Event History

		Fault Description
RFZd	Radio Zone Deleted	A radio zone has been deleted via installer programming
STK5	Area Stay Armed by Keyswitch	Area (A or B) has been stay armed via a keyswitch
STPC	Area Stay Armed by Upload/ Download	Area (A or B) has been armed via upload/download software
STST	Area Stay Armed by STAY button	Area (A or B) has been stay armed via the keypads quick arm function
STTX	Area Stay Armed by Pendant	Area (A or B) has been armed via a radio pendant
STU	Area Stay Armed by User	Area (A or B) has been armed via a user code
TMPA	System Tamper Alarm	Alarm panels tamper alarm has been triggered
TMPR	System Tamper Alarm Restore	Alarm panels tamper has been restored/sealed
TXBA	Pendant-TX Battery Low	Smart radio pendant battery is low
TXBR	Pendant-TX Battery Low Restore	Smart radio pendant battery is back to operating voltage
TXPA	Pendant-TX Panic Alarm	A remote pendant has triggered the alarms panic function
TXPD	Pendant Deleted	A remote pendant has been deleted via installer programming
TXPL	Learning Pendant	A new remote pendant has been added via installer programming
TXPR	Pendant-TX Panic Alarm Restore	A panic triggered via a remote pendant has been restored
WTON	Walk Test On	Zone walk test mode has been initiated via installer programming
ZNAA	Zone Alarm Activation	Alarm panel has gone into full activation
ZNAR	Zone Alarm Restore	Alarm panel has been restored/no longer in alarm
ZNBR	Zone Bypass Re-Instated	A bypassed zone has been reinstated
ZNBY	Zone Bypass	A zone has been manually bypassed
ZNSA	Zone Stay Alarm	The alarm panel has gone into stay mode alarm activation
ZNSR	Zone Stay Alarm Restore	A stay arm activation has been restored
ZNTA	Zone Tamper Alarm	A zone has gone into alarm activation
ZNTR	Zone Tamper Alarm Restore	A zone tamper has been restored and is no longer in activation

User Programming

Note: Where there are up to 8 options at one address, the digits 0 & 9 have special functions. Entering a 0 at the address will turn all options off whereas entering a 9 will turn all options on.

USER CODES - PIE 1-100E (NOTE: Users 21-100 can be Radio Users)

Adding or changing a User Code

Up to 100 codes can be programmed into the panel. The user codes are located in address PIE 1-100E.
By default, Code 1 has Master Code permissions and must be used to enter Client program mode.
Codes 1-100 may be varied in length from 1 to 6 digits (unless option 8 at P25E11E is on then the codes must be between 4-6 digits long).

To program a User Code you must first be in client or installer program mode, then select the address PIE followed by the User Number you wish to program eg 1-100E (If there is already a code programmed at this address, it will be displayed back to you) Now enter the code then press the <**ENTER**> key.

eg. P1E2E 2580 E
3 beeps - program light on solid or flashing

In this example we have programmed Code 2 to be 2580.

eg. P1E5E 9876 E
3 beeps - program light on solid or flashing

In this example we have programmed code 5 to be 9876
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.

NOTE: When displaying User Codes on an LED keypad, digits 1-9 use the zone indicators 1-9. The digit 0 is indicated by the "AUX" light.

Removing a User Code

To remove or delete a code simply press the <BYPASS> button after entering the code address when using an LED keypad, or press and hold the <CONTROL> button then within 2 seconds press the <0> button if using an LCD keypad.

eg. LED Keypad press P1E3E <*BYPASS*> E
3 beeps - Program light on solid or flashing
User Code # 3 Erased

eg. LCD Keypad press P1E3E <*CONTROL*> then <0>
3 beeps
User Code # 3 Erased

USER CODE TYPE

USER CODE TYPE - P2E 1-100E (NOTE: only Users 21-100 can be Radio Users)

Option 0 - Keypad Code User {PIN}
Option 1 - Radio user (User 21-100 only)
Option 2 - Access Tag/Card User
Option 3 - Both Code and Access Tag/Card User {Tag + PIN}
Option 4 - Either Code or Access Tag/Card User {Tag or PIN}

Option 0 **Keypad Code User {PIN}** - All 100 Users can be 1-6 digit code Users if required. Codes can be used to Arm/Disarm all or part of the alarm or they can be used to operate outputs for access control purposes. Users can be assigned to keypads and so can outputs so that a User assigned to multiple outputs (which can in turn be linked to doors) can operate only the door assigned to the keypad they are using.

Option 1 **Radio User** - Users 21-100 can be Radio keys (Pendant) if required. Radio keys can be used to Arm/Disarm all or part of the alarm or they can operate outputs directly. Unlike user codes, a radio key cannot be assigned to a keypad so if a radio key is assigned to more than one output and the radio key is operated, all of the outputs assigned to the radio key will turn on.

Option 2 **Access Tag/Card User** - Users 1-100 can be Access Tags or Cards if required. Access Tag or Card operation requires that the optional Proximity Reader is connected to the panel. The Proximity Readers can be assigned to any one of the 8 possible keypad addresses. Access tag or Card Users can be used to Arm/Disarm all or part of the alarm or they can be used to operate outputs for access control purposes. Access Tags or Cards can be assigned to a keypad address and so can outputs so that an Access User assigned to multiple outputs (which can in turn be linked to doors) can operate only the door assigned to the keypad address they are using.

Option 3 **Both Code and Access Tag/Card User {Tag + PIN}** - Up to 100 code Users and up 100 tag or card Users can be stored in the panel. If the Proximity Reader with the full keypad is installed on the panel, it is possible to arm/disarm the alarm or gain access through a door by presenting the tag/card at the reader then entering in the user code {PIN Number}. It MUST be in that order ie Tag then PIN. This option provides a more secure means of arming or disarming the alarm, or gaining access through a door, because it requires both the access tag/card plus the PIN number.

Option 4 **Either Code or Access Tag/Card User {Tag or PIN}** - Up to 100 code Users and up 100 tag or card Users can be stored in the panel. If the Proximity Reader with the full keypad is installed on the panel, it is possible to arm/disarm the alarm or gain access through a door by entering in the user code at the reader or presenting the tag/card at the reader. This option gives two methods of controlling the alarm.

USER AREAS

USER AREAS - P3E 1-100E

Option 1 - Assigned to Area A
Option 2 - Assigned to Area B

Option 1 **Assigned to Area A** - If a User has option 1 on, they can Arm/Disarm all zones assigned to Area A

Option 2 **Assigned to Area B** - If a User has option 2 on, they can Arm/Disarm all zones assigned to Area B

USER ACCESS OPTIONS

USER ACCESS OPTIONS - P4E 1-100E

Option 1 - User can Arm Area
Option 2 - User can Arm Stay Area
Option 3 - User can Disarm Area
Option 4 - User can Disarm Stay Area
Option 5 - User is a Security Guard User
Option 6 - User will Arm Latchkey Mode
Option 7 - User can set Call Divert Mode on Arm/Disarm
Option 8 - User can View Event Memory

Option 1 **User can Arm Area** - If a User has option 1 on, they can Arm all Areas assigned at location P3E.

Option 2 **User can Arm Stay Area** - If a User has option 2 on, they can Arm Stay Mode for all Areas assigned at location P3E.

Option 3 **User can Disarm Area** - If a User has option 3 on, they can Disarm all Areas assigned at location P3E.

Option 4 **User can Disarm Stay Area** - If a User has option 4 on, they can Disarm Stay Mode for all Areas assigned at location P3E.

Option 5 **User is a Security Guard User** - If a User has option 5 on, they can Arm all Areas assigned at location P3E, but they may only Disarm if the panel is currently Armed and in the alarm state.

Option 6 **User will Arm Latchkey Mode** - If this option is ON, the User will Arm the alarm in Latchkey Mode. Latchkey Mode can also be armed by using the <ARM>, <STAY>, <A> or <B> buttons, (see P75E, P77E,

P79E & P81E option 6) or the key-switch (see P112E option 6). If a User with this option ON Disarms the alarm no Latchkey Disarm report will be sent via the dialler. If Latchkey Mode is Armed and a user with this option turned OFF Disarms the alarm a Latchkey disarm report will be sent to alert parents when their children have returned home. Reporting of Latchkey Disarm is enabled at location (P189E option 1). If a Voice report is desired the message is assigned at P176E10E. Normally you would select a telephone number/s set for domestic or voice reporting to report the Latchkey disarm signal.

Option 7 **User can set Call Divert Mode on Arm/Disarm** - If a User has option 7 on, they can initiate the Call Divert Number/s to be dialled on Arm/Disarm. This allows automatic call diversion when the alarm is Armed and taking the diversion off when Disarmed. Call divert must also be programmed (P192-194E).

Option 8 **User can View Event Memory** - If access to memory mode is restricted by turning on option 8 at location P25E13E, this option allows the user to access memory mode by pressing <MEMORY> <CODE #> <ENTER>. If this option is off and memory access is restricted, the user cannot view memory mode.

USER CODE PRIVILEGES

USER CODE PRIVILEGES - P5E 1-100E **(see chart on page 112 for the exact program locations)**

Option 1 - User can Change Their Code
Option 2 - User can Change All Codes
Option 3 - User can Allow Access to Installer Mode/Edit All Codes
Option 4 - User can Change Telephone Numbers
Option 5 - User can Change Clock Settings
Option 6 - User can Change DTMF Codes
Option 7 - User can Learn New Radio Devices
Option 8 - User can Force a Download to the Call-back Number

Option 1 **User can Change Their Code** - If a User has option 1 on, they can access Client Program Mode and change their code number.

Option 2 **User can Change All Codes** - If a User has option 2 on, they can access Client Program Mode and change All User code numbers.

Option 3 **User can Allow access to Installer Mode/Edit All Codes** - If a User has option 3 on, they can access Client program Mode. From there an Installer with the correct Installer Code can access Installer Program Mode. The User with this option can also edit all User Codes and associated parameters as shown in the chart on page 112.

Option 4 **User can Change Telephone Numbers** - If a User has option 4 on, they can access Client Program Mode and change the telephone and call divert numbers.

Option 5 **User can Change Clock Settings** - If a User has option 5 on, they can access Client Program Mode and change the Time & date settings as well as daylight saving sart and finish times.

Option 6 **User can Change DTMF Codes** - If a User has option 6 on, they can access Client Program Mode and change the DTMF Codes. A DTMF Code can be used to remotely Arm/Disarm an Area, turn Output/s On/Off or Acknowledge a Voice/Domestic alarm.

Option 7 **User can Learn New Radio Devices** - If a User has option 7 on, they can access Client Program Mode and Learn a new Radio Key or Wireless Zone Device. They can also remove radio devices or find what location number a device is stored at.

Option 8 **User can Force a Download to the Call-back Number** - If a User has option 8 on, they can access Client Program Mode and force a PC connection to a pre-defined call-back number. They can either enter in P200E12E or if using an LCD keypad go to the "Diagnostics" Menu and select "Start Callback".

RADIO USER TYPE

RADIO USER TYPE - P7E 21-100E (NOTE: only Users 21-100 can be Radio Users)

Option 0 - Generic (General Pendant Type)
Option 1 - Crow Freelink Pendant
Option 21 - Ness Pendant

Option 0 **Generic Type** - If a Radio Pendant has no special functions and does not send a battery low signal it is a Generic type 0.

Option 1 **Crow Freelink Type** - If a Crow Freelink Radio Pendant is being used set the type to 1. When the pendant detects a battery low it will send a signal to the panel.

Option 21 **Ness Type** - If a Ness Radio Pendant is being used set the type to 21. When the pendant detects a battery low it will send a signal to the panel.

RADIO USER PRIVILEGES

RADIO USER PRIVILEGES - P8E 21-100E (NOTE: only Users 21-100 can be Radio Users)

Option 1 - Pendant can Disarm at All Times
Option 2 - Pendant will cause an Immediate Panic Alarm
Option 3 - Pendant will cause a Delayed Panic Alarm (1.5 sec)
Option 4 - Pendant only works during entry delay
Option 5 - This User is a dedicated Duress Code
Option 6-8 - Spare

Option 1 **Pendant can Disarm at All Times** - If a Radio Pendant has option 1 on, they can Disarm the alarm at any time. If this option is off, the pendant cannot disarm if the panel is in alarm state.

Option 2 **Pendant will cause an Immediate Panic Alarm** - If a Radio Pendant has option 2 on, a Panic Alarm will be generated immediately the button is pressed.

Option 3 **Pendant will cause a Delayed Panic Alarm** - If a Radio Pendant has option 3 on, a Panic Alarm will be generated if the button is pressed for longer that 1.5 seconds. If the button is released before the time expires, no Panic Alarm will be generated.

Option 4 **Pendant only works during entry delay** - If a Radio Pendant has option 4 on, the pendant can only disarm the alarm during the entry delay time. This means that authorised radio key users must enter the building and trigger the entry delay before they can disarm the alarm.

Option 5 **This User is a dedicated Duress Code** - If a User Code has option 5 on (restricted to Users 21-100 only), this code should be used as a dedicated Duress code. It should not be used for daily disarming of the alarm but used when disarming under Duress.

TIMEZONE ASSIGNED to a USER

TIMEZONE ASSIGNED to a USER - P9E 1-100E

Option 1 - User Controlled by Time Zone # 1
Option 2 - User Controlled by Time Zone # 2
Option 3 - User Controlled by Time Zone # 3
Option 4 - User Controlled by Time Zone # 4
Option 5 - User Controlled by Time Zone # 5
Option 6 - User Controlled by Time Zone # 6
Option 7 - User Controlled by Time Zone # 7
Option 8 - User Controlled by Time Zone # 8

There are up to 8 Time Zones that can be programmed into the panel. A Time Zone consists of a Start and Stop time plus the Days of the Week that the Time Zone is active. By selecting Options 1-8 (function turned on) to a particular User, that user will only operate if the Time Zone assigned is active.

For example, if Time Zone #1 had a start time of 0800 and a stop time of 1700 and active days of 2-6 (Monday-Friday), a User with Time Zone 1 assigned can only be used between the hours of 0800-1700 from Monday to Friday. Outside these hours the User Code will not operate.

More than one Time Zone can be assigned to a User. Using the above example for TZ#1 and now assuming Time Zone #2 is set to 0900-1200 on day 7 (Saturday), by assigning both TZ1 & 2 to a User will now mean their code is active during weekdays from 0800-1700 plus they are also able to use their code on Saturdays between the hours of 0900-1200.
If the time-zone has just been programmed and should currently be active you will have to wait until the next minute expires before the panel will update the time-zone status. You can see if the time-zone is active at location P200E4E.

USER to KEYPAD ASSIGNMENT

USER to KEYPAD ASSIGNMENT - P10E 1-100E

Option 1 - User will work at Keypad # 1
Option 2 - User will work at Keypad # 2
Option 3 - User will work at Keypad # 3
Option 4 - User will work at Keypad # 4
Option 5 - User will work at Keypad # 5
Option 6 - User will work at Keypad # 6
Option 7 - User will work at Keypad # 7
Option 8 - User will work at Keypad # 8

Any user can be assigned to only operate at certain Keypads. This option controls whether a code or access tag User can Arm/Disarm from certain keypads. This option does not restrict users from operating outputs from a particular keypad (this is done at locations P82E & P83E).

RADIO PENDANT PANIC BEEPS to KEYPAD

RADIO PENDANT PANIC BEEPS to KEYPAD - P11E 21-100E (NOTE: only Users 21-100 can be Radio Users)

Option 1 - A Pendant Panic Alarm will Beep at Keypad # 1
Option 2 - A Pendant Panic Alarm will Beep at Keypad # 2
Option 3 - A Pendant Panic Alarm will Beep at Keypad # 3
Option 4 - A Pendant Panic Alarm will Beep at Keypad # 4
Option 5 - A Pendant Panic Alarm will Beep at Keypad # 5
Option 6 - A Pendant Panic Alarm will Beep at Keypad # 6
Option 7 - A Pendant Panic Alarm will Beep at Keypad # 7
Option 8 - A Pendant Panic Alarm will Beep at Keypad # 8

If a Radio Pendant is programmed to create a Panic Alarm (see P8E), when the Panic Alarm is activated it can be silent or it can sound the keypad buzzer. Each keypad can be silent during a Pendant Panic Alarm (option turned off) or can give an audible indication of the Alarm (option turned on).

USER to OUTPUT MASK

USER to OUTPUT MASK - P12E 1-100E

Option 1 - User is Mapped to Output # 1
Option 2 - User is Mapped to Output # 2
Option 3 - User is Mapped to Output # 3
Option 4 - User is Mapped to Output # 4
Option 5 - User is Mapped to Output # 5
Option 6 - User is Mapped to Output # 6
Option 7 - User is Mapped to Output # 7
Option 8 - User is Mapped to Output # 8

Any user can be allowed to only operate certain Outputs. This Function is mainly used for access control purposes. If an Output is being used to open a door but a User does not have access through that door, by not allowing the User to operate that Output access through the door can be denied.
(By default all users are Masked to all outputs)

USER can turn an OUTPUT ON

USER can turn an OUTPUT ON - P13E 1-100E

Option 1 - User can turn ON Output # 1
Option 2 - User can turn ON Output # 2
Option 3 - User can turn ON Output # 3
Option 4 - User can turn ON Output # 4
Option 5 - User can turn ON Output # 5
Option 6 - User can turn ON Output # 6
Option 7 - User can turn ON Output # 7
Option 8 - User can turn ON Output # 8

Any user can be allowed to turn an Output ON. This Function can be used to control external devices via the panel keypad with a User assigned to that Output. Once an Output is turned ON by a User, the Output can turn OFF again automatically if a reset time is assigned to the Output, or it can be turned off by the same user or by a different user with the next program location.

USER can turn an OUTPUT OFF

USER can turn an OUTPUT OFF - P14E 1-100E

Option 1 - User can turn OFF Output # 1
Option 2 - User can turn OFF Output # 2
Option 3 - User can turn OFF Output # 3
Option 4 - User can turn OFF Output # 4
Option 5 - User can turn OFF Output # 5
Option 6 - User can turn OFF Output # 6
Option 7 - User can turn OFF Output # 7
Option 8 - User can turn OFF Output # 8

Any user can be allowed to turn an Output OFF. This Function can be used to control external devices via the panel keypad with a User assigned to that Output. Once an Output is turned OFF by a User, the Output can be turned on by the same user or by a different user with the previous program location.

RADIO PENDANT PANIC ALARM to OUTPUT

RADIO PENDANT PANIC ALARM to OUTPUT - P15E 21-100E (NOTE: only Users 21-100 can be Radio Users)

Option 1 - A Pendant Panic Alarm will Operate Output # 1
Option 2 - A Pendant Panic Alarm will Operate Output # 2
Option 3 - A Pendant Panic Alarm will Operate Output # 3
Option 4 - A Pendant Panic Alarm will Operate Output # 4
Option 5 - A Pendant Panic Alarm will Operate Output # 5
Option 6 - A Pendant Panic Alarm will Operate Output # 6
Option 7 - A Pendant Panic Alarm will Operate Output # 7
Option 8 - A Pendant Panic Alarm will Operate Output # 8

If a Radio Pendant is programmed to create a Panic Alarm (see P8E), when the Panic Alarm is activated it can be silent or it can turn on an Output. This option would normally be used to turn on any internal and/or external audible alarms connected to Outputs during a Pendant Panic Alarm.

LEARN RADIO PENDANT CODES

LEARN RADIO PENDANT CODES - P18E 21-100E (NOTE: only Users 21-100 can be Radio Pendants)

A Radio Pendant must be enrolled into the panel before it can be used.

To learn a Radio Pendant you must first have a compatible receiver connected to the panel keypad buss. With the receiver connected and the panel in program mode, entering P18E then the pendant number you wish to enrol, eg 21E for pendant 21, the keypad will start to beep to indicate that learn mode has been started and the LED on the receiver will flash. Now operate the pendant you wish to learn into User slot 21. Once the transmitted code has been received by the panel and saved as pendant 21, the keypad will stop beeping and the LED on the receiver will stop flashing.

When learning a new radio code the panel checks all possible locations (including radio zones) before saving

the new code to ensure that the code has not already been loaded into another slot. If the code already exists, the keypad will indicate which slot the code is already installed at. A number from 1-16 indicates a zone slot and a number from 21-100 indicates a user slot.

DELETE a RADIO PENDANT CODE

DELETE a RADIO PENDANT CODE - P19E 21-100E (NOTE: only Users 21-100 can be Radio Pendants)

If you wish to delete a single Radio Pendant, pressing P19E then the Pendant User number while in Program Mode will delete the stored code against that User, eg P19E 21E will remove the code stored for User 21.

FIND a RADIO PENDANT LOCATION

FIND a RADIO PENDANT LOCATION - P20E 0E (NOTE: only Users 21-100 can be Radio Pendants)

If you have a Radio Pendant loaded into the panel but are unsure which location (User #), pressing P20E (then 0E on an LED Keypad) while in Program Mode will start "Find" Mode. There is no need to press 0E when using an LCD keypad because the keypad will give you written prompts after entering P20E. The keypad will start to beep to indicate that "Find" mode has been started and the LED on the Receiver will flash. Now press the Radio Pendant button that you wish to find. If the Radio Pendant is in memory the keypad will display the number (1-16 indicates a zone, and 21-100 indicates a user). The keypad will stop beeping and the LED on the Receiver will stop flashing.

LEARN ACCESS TAG/CARD CODES

LEARN ACCESS TAG/CARD CODES - P21E 1-100E

An Access Tag/Card must be enrolled into the panel before it can be used. The panel can have up to 100 proximity tags (key-ring style card), or proximity cards loaded into the system. The tags or cards are stored separately to the User Codes but they follow the options of Users 1-100 programmed at locations P2E, P3E, P4E, P9E, P10E, P12E, P13E & P14E. For example if user 11 is assigned to area A (P3E Option 1), and can arm/disarm the alarm (P4E Options 1 & 3), then access Tag/Card number 11 will arm/disarm area A also.

To learn an Access Tag/Card you must first have a compatible proximity reader connected to the panel keypad buss. With the reader connected and the panel in program mode, entering P21E then the Access tag/card number you wish to enrol, eg 11E for Tag/Card number 11, the keypad will start to beep to indicate that learn mode has been started. Now present the Access Tag/card to the reader. Once the Tag/Card number has been received by the panel and saved, the keypad will stop beeping to indicate learn mode has stopped.
When learning a new access Tag/Card the panel checks all possible locations before saving the new code to ensure that the code has not already been loaded. If the tag or card already exists, the panel will not terminate learn mode but instead it will continue looking for a new tag or card to be presented. This allows a new tag or card to be learnt while existing tags or cards may be in use on the system.
After learning the tag or card, before it will work you MUST select the appropriate option at location P2E (options 2, 3 or 4 must be selected for the tag to work).

DELETE an ACCESS TAG/CARD CODE

DELETE an ACCESS TAG/CARD CODE - P22E 1-100E

If you wish to delete a single Access Tag or Card, pressing P22E then the User number while in Program Mode will delete the stored code against that User, eg P22E 11E will remove the tag or Card stored for User 11.

FIND an ACCESS TAG/CARD LOCATION

FIND an ACCESS TAG/CARD LOCATION - P23E 0E

If you have an Access Tag or Card loaded into the panel but are unsure which location (User #), pressing P22E (then 0E on an LED Keypad) while in Program Mode will start "Find" Mode. There is no need to press 0E when using an LCD keypad because the keypad will give you written prompts after entering P22E. The keypad will start to beep to indicate that "Find" mode has been started. Now present the Access Tag or Card you wish to find to a proximity reader connected to the panel. If the Tag or Card is in memory the keypad will display the number where the Tag or Card is stored (a number from 1-100). The keypad will stop beeping once the memory location has been found.

Miscellaneous Panel & Clock Settings

INSTALLER CODE

INSTALLER CODE - P25E 1E

This code is used to enter full Installer Program mode (Program LED flashing on LED Keypad). The default installer code is 000000. This code can only be changed while in Installer Program Mode. To enter your new installer code press P25E1E. The existing code will displayed at the keypad (either each digit flashed out sequentially on an LED keypad or shown on the bottom line of the LCD keypad). To change the code simply enter the digits of the new code and it will replace the old one. The Installer Code must be between 4-6 digits in length.

DURESS DIGIT

DURESS DIGIT - P25E 2E (Value can be 1-9, 0 = Duress Disabled)

The duress digit can be a number from 1-9 (a value of "0" means the duress function is disabled).
To create a duress alarm the duress digit must be entered before a valid user code (eg If the code was "123" and the duress number was "4", then entering a code of <4123> <ENTER> would create a duress alarm).

DIAL REPORT DELAY

DIAL REPORT DELAY - P25E 3E (0-255 Seconds)

If this address is set to 0, there will be no report delay. If it is set to any value other than 0 then a delay equal to the programmed value will stop the panel from reporting an alarm until this delay time expires.

RADIO ZONE SUPERVISED TIMER

RADIO ZONE SUPERVISED TIMER - P25E 4E (Value 0-9999 Minutes)

If a radio detector is capable of sending regular supervisory signals to the panel and the zone type is set for "Supervised Signal Active", this timer sets how long a period has to elapse with no received transmissions before a supervisory failure alarm is generated.

TWO TRIGGER TIMER

TWO TRIGGER TIMER - P25E 5E (0-255 Seconds)

If a zone is set to two trigger, the zone has to cause an alarm twice within the two trigger time period to cause an alarm. If multiple zones are set to two trigger, an alarm will be generated it two zones trigger once each within the two trigger time period. If a two trigger zone goes into alarm but remains in alarm for longer than the two trigger time period (ie detector failure or cable cut) an alarm will be generated.

MAINS FAIL REPORTING DELAY

MAINS FAIL REPORTING DELAY - P25E 6E (0-9999 Seconds)

If a Mains Failure occurs this timer delays the reporting of Mains Failure to a Monitoring Station. If the mains power returns before the timer expires then no report is sent. If Mains Failure is assigned to an output, this delay must expire before the output will turn on.

RECEIVER FAIL DELAY

RECEIVER FAIL DELAY - P25E 7E (0-9999 Seconds)

If supervised radio detectors are used, the receiver will be seeing regular transmissions. Because of this, the panel can monitor receiver activity to check that the receiver is still working. If the panel does not receive any signals within this time period a receiver failure alarm will be generated. If set to 0, the receiver monitoring will be turned off.

UPLOAD/DOWNLOAD SITE CODE NUMBER

UPLOAD/DOWNLOAD SITE CODE NUMBER - P25E 8E (8 characters)

The upload/download site code number must be entered if the panel is set for auto-answer as this provides a security access level to the panel. The number can be up to 8 characters in length. Valid characters for this number are 0-9,B-F. See chart on page 55 for details of how to program the characters B-F.

TEMPORARY OUTPUT DISABLE

TEMPORARY OUTPUT DISABLE - P25E 9E (Select output # 1-8)

This address allows a technician to select any output/s to be temporarily disabled for one alarm or armed cycle, eg by selecting LEDS 1-4 (Outputs 1-4) at this location then leaving program mode, outputs 1-4 will not turn on following any alarms. The technician is now free to arm the system to test all monitoring signals without having any internal and/or external alarms activating. When the alarm is reset or disarmed all outputs will now work normally again.

MISCELLANEOUS PANEL OPTIONS

MISCELLANEOUS PANEL OPTIONS - P25E 10E

Option 1 - Panel Tamper is 2k2 EOL
Option 2 - Direct access to program mode for the Installer Code
Option 3 - Disable Mains Fail Test
Option 4 - NA (Option not available on ESL-2)
Option 5 - Receiver Fail/RF Jammed Lockout
Option 6 - Send Output information to Keypad Buss
Option 7 - Cannot arm if the system battery is low.
Option 8 - Installer Lockout

Option 1 **Panel Tamper is 2k2 EOL** - The Tamper input (Tmp) on the control panel requires either a short circuit or a 2k2 End-of-Line resistor. If option 1 is on the panel must see a 2k2 resistor (EOL) across the Tmp & 0V terminals to ensure the tamper is sealed. If this option is turned off then a simple short circuit is all that is required to seal the panel tamper.

Option 2 **Direct access to program mode for the Installer Code** - If this option is on, the Installer Code can gain access to Installer Program Mode directly. If the option is turned off, the installer can only gain access to Installer Program Mode via Client Program Mode. This option allows the owner to control program mode access by the installer. The User must have option 3 at location P5E turned on for them to allow installer access.

Option 3 **Disable Mains Fail Test** - If the panel must be run off a DC supply or the Mains supply can fail regularly, this option disables the mains voltage monitoring to prevent mains fail alarms from occurring.

Option 4 Listen-in to O/P # 1 Low Volume - Option not available on ESL-2 system

Option 5 **Receiver Fail/RF Jammed Lockout** - If the receiver fail delay (P25E7E) is set to a value other than 0 and the panel sees no activity from the receiver for the set period of time, a receiver fail alarm will be generated. If this option is turned on, the panel cannot be armed until the cause of the receiver failure has been resolved. Also if the receiver detects a continuous signal for longer than 60 seconds it will send an RF Jammed signal to the control panel. Under this alarm condition and if this option is turned on, the control panel cannot be armed until the interference has been removed.

Option 6 **Send Output information to Keypad Buss** - There is an optional 4 x relay output expander board that can be connected to the keypad buss if required. For this output expander to work option 6 must be turned on for the data to be sent on the keypad buss to the expander.

Option 7 **Cannot arm if the system battery is low.** - If this option is turned on, the panel cannot be armed if the panel battery is low. When the battery is fully charged the panel can then be armed. If this

option is turned off the panel can be armed during these fault conditions.

Option 8 **Installer Lockout** - Normally if the panel is powered up with the panel tamper open (ie system tamper alarm active) and in the Disarm state, then the panel will go into installer program mode when the <PROGRAM> then <ENTER> buttons are pressed. If this option is on, the panel will not allow access to program mode on power-up and the only valid method of accessing program mode is via the installer code.

INSTALLER OPTIONS

INSTALLER OPTIONS - P25E 11E

Option 1 - Entry to Installer Mode Resets Confirmed Alarms
Option 2 - Entry to Installer Mode Resets Tamper Alarms
Option 3 - Entry to Installer Mode Resets Low Battery Alarm
Option 4 - Entry to Installer Mode Resets Supervisory Alarms
Option 5 - Cannot Arm if there is a keypad Fault
Option 6 - Cannot Arm if there is a Telephone Line Failure or Comms Fault
Option 7 - 10 Incorrect Code Attempts locks out the keypad for 90 Seconds
Option 8 - User Codes Must be 4-6 digits long

Option 1 **Entry to Installer Mode Resets Confirmed Alarms** - If this option is turned on and a Confirmed alarm has occurred, the alarm cannot be re-armed until the Installer has reset the alarm. The Installer must access Installer Program Mode via Client Mode to reset the system. The zones that caused the alarm will latch on (even when disarmed) until reset by the installer to indicate that lockout is in effect.

Option 2 **Entry to Installer Mode Resets Tamper Alarms** - If this option is turned on and a Tamper alarm has occurred (system or zone tampers), the alarm cannot be re-armed until the Installer has reset the alarm. The Installer must access Installer Program Mode via Client Mode to reset the system. The Trouble indication will latch on (even if the tamper alarm has been cleared) until reset by the installer to indicate that lockout is in effect.

Option 3 **Entry to Installer Mode Resets Low Battery Alarm** - If this option is turned on and a Low Battery alarm has occurred, the Installer must access Installer Program Mode via Client Mode to reset the battery low signal. If option 7 is turned on at location P25E10E the alarm cannot be re-armed until the Installer has reset the battery low signal.

Option 4 **Entry to Installer Mode Resets Supervisory Alarms** - If this option is turned on and a Detector Supervisory alarm has occurred, the alarm cannot be re-armed until the Installer has reset the alarm. The Installer must access Installer Program Mode via Client Mode to reset the supervisory alarm.

Option 5 **Cannot Arm if there is a keypad Fault** - If this option is turned on and a missing keypad alarm is present the panel cannot be armed until the keypad has been re-instated.

Option 6 **Cannot Arm if there is a Telephone Line Failure or Comms Fault** - If this option is turned on and the control panel has detected a telephone line fault or the dialler failed to get kissed off (Comms Fault) following an alarm report the panel cannot be armed. To reset the line failure the telephone line must be re-instated to allow arming again. To reset the Comms Fault alarm, a user must access the memory.

Option 7 **10 Incorrect Code Attempts locks out the keypad for 90 Seconds** - If this option is turned off the panel will create a keypad tamper alarm if more than 4 incorrect codes are entered at a keypad but the keypad will not be locked out. If this option is turned on the panel will create a keypad tamper alarm if more than 10 incorrect codes are entered at a keypad and that keypad will then be locked out for 90 seconds.

Option 8 **User Codes Must be 4-6 Digits** - If this option is turned on, all User Codes must be between 4-6 digits long. If it is turned off, the User Codes can be 1-6 digits long.

USER OPTIONS

USER OPTIONS - P25E I2E **(NOTE: This Option can ONLY be accessed from Client Mode)**

Option 1 - Hide User Codes from Installer

Option 1 **Hide User Codes from Installer** - This option is only accessible from Client Program Mode. It is designed to allow the User (owner) of the alarm to hide their User Codes from the Installer if desired. If this option is turned On, codes can only be changed or viewed in Client program mode. Users MUST have option 2 at location P5E assigned before they can hide the user codes.

MISCELLANEOUS USER OPTIONS - P25E I3E

Option 1 - Code Required to View Memory
Option 2 - Cancel Handover Zone Function in Stay Mode
Option 3 - Output Control from Keypad is Disabled when Armed
Option 4 - Keypad Codes are Disabled During Entry Delay
Option 5 - No Keypad Indications while Armed
Option 6 - Monitored KP Buss Output Board
Option 7 - Enable Keypad Tamper Switch Alarms
Option 8 - Limit Events & Dialler to 3 of any one type

Option 1 **Code Required to View Memory** - If this option is turned on, access to Memory Mode will only be allowed by using an authorised code. The user must press <MEMORY> <CODE #> <ENTER> to view memory events Codes are authorised by turning on option 8 at location P4E. If this option is turned off anyone can access memory mode.

Option 2 **Cancel Handover Zone Function in Stay Mode** - If this option is turned on, any zone programmed with the handover feature will act as a normal delayed zone during Stay mode (ie the handover feature will be ignored). The zone will still have the normal handover feature during the full arm state.

Option 3 **Output Control from Keypad is Disabled when Armed** - If this option is turned on any User code programmed to operate an output for access control will be disabled when the area/s assigned to the user code is/are armed (P3E). If the user code is assigned to area A but area B was armed the code can still operate the output. If no areas are assigned at P3E this option has no effect on the User code.

Option 4 **Keypad Codes are Disabled During Entry Delay** - If this option is turned on no codes will operate during the entry delay. This forces the user to disarm before entering the premises.

Option 5 **No Keypad Indications while Armed** - If this option is turned on and all areas assigned to keypads are armed, the keypad display will be blank during the armed state. If any keypad is assigned to areas A&B at location P7IE, both areas must be armed before the display will go blank on arming.

Option 6 **Monitored KP Buss Output Board** - This option performs a similar function to option 6 at location P25E10E in that if it is turned on the Output status messages are sent to the keypad buss. The difference with this option is when turned on the panel is expecting the OUTPUTX4 board connected to the keypad buss to acknowledge the messages. If the OUTPUTX4 does not acknowledge the output status messages the panel will show an output board failure. This option should only be turned on if an OUTPUTX4 board with the latest software is connected to the keypad buss.

Option 7 **Enable Keypad Tamper Switch Alarms** - If this option is turned off the panel will ignore all alarms generated by keypad tamper switches. To enable the keypad tamper alarms this option must be turned on.

Option 8 **Limit Events & Dialler to 3 of any one Type** - If this option is turned on the panel will not record any more than 3 events in memory for any event type during a single arm or disarm cycle, eg if the AC failed 4 times while armed or disarmed the panel will only record the AC fail 3 times in memory and will only report the AC fail 3 times to the dialler. As soon as the arm state has changed any counts are reset back to zero again. If this option is off there is no limit on the recording and reporting of events.

SETTING REAL TIME CLOCK

REAL TIME CLOCK HOUR/MINUTE - P26E 1E (Value 0-2359)
REAL TIME CLOCK DAY of WEEK - P26E 2E (Value 1-7) [where 1 = Sunday, 2 = Monday, 3 = Tuesday, etc]
REAL TIME CLOCK DATE/MONTH/YEAR - P26E 3E (Value DDMMYY) (for example 020904 = 2nd September, 2004)

The Real Time Clock controls the Time-zones, the timing of automatic test calls and is used to Time & Date stamp the events in the Event Buffer. Ensure this is set correctly at the time of installation so that the all of the functions using the time will work correctly. The clock is programmed in 24 hour format (eg 00:00-23:59).

DAYLIGHT SAVING (DLS) SETTINGS

DAYLIGHT SAVING ACTIVE - P26E 4E (If LED # 1 is On, Daylight Saving is currently active)

NOTE: If you are in Daylight Saving Time when the alarm system is installed you MUST turn on option 1 at location P26E4E so that the panel knows that Daylight Saving Time is currently active. Failure to do this will not allow the clock to automatically adjust to the correct time when Daylight Saving Time Ends.

DAYLIGHT SAVING START SUNDAY - P27E 1E (Value 0-5, 0= DLS Disabled)
DAYLIGHT SAVING END SUNDAY - P27E 2E (Value 0-5, 0= DLS Disabled)

DAYLIGHT SAVING START MONTH - P28E 1E (Value 1-12)
DAYLIGHT SAVING END MONTH - P28E 2E (Value 1-12)

DAYLIGHT SAVING START HOUR - P29E 1E (Value 0-23)
DAYLIGHT SAVING END HOUR - P29E 2E (Value 0-23)

If Daylight Saving (DLS) is used, the actual start and stop details can be entered here and the clock will automatically adjust for daylight saving.
NOTE: If the start and/or stop Sunday (P27E above) must be the last Sunday of the month (which can be Sunday number 4 or 5 depending on the year) then you must se the value to 5.

Outputs

NOTE: With all output programming options we refer to outputs 1-8. Only outputs 1-4 are available as standard, with outputs 5-8 requiring the connection of the optional 4 way output expander unit that connects to the keypad buss (the output expander provides 4 change-over relay contacts).

OUTPUT OPTIONS "A"

OUTPUT OPTIONS "A" - P34E 1-8E
Option 1 - Invert Output
Option 2 - Flash Output
Option 3 - Single Pulse to Output
Option 4 - Lockout Output
Option 5 - DTMF Remote Control of Output
Option 6 - Keypad User can Operate Output
Option 7 - <CONTROL> button and APP can Operate Output
Option 8 - Pulsed Chime Alarm (linked to pulse timer)

Option 1 **Invert Output** - This option is used to invert the normal state of the output. The panel uses open collector transistor switches and the default state of all outputs is off (open). When in alarm the transistor is turned on and the output goes low (0V). The invert option reverses this function.

Option 2 **Flash Output** - When the output is turned on this option causes the output to flash at a rate set by the pulse timer (P39E). One use is to flash a lamp during an alarm. DO NOT turn this option on if the Output is to be manually controlled by a user or the "Control" button.

Option 3 **Single Pulse to Output** - This option produces a single pulse at the output when an alarm occurs

(the pulse time is the value programmed at the output pulse timer P39E).

Option 4 **Lockout Output** - This option is used to limit the output to one operation per arming period.

Option 5 **DTMF Remote Control of Output** - If the panel is set-up so a User can dial in from a remote telephone to perform "DTMF Code Control" (P175E12E) of the Outputs, this option selects which Outputs are able to be controlled by the remote user.

Option 6 **Users can Operate Output** - If you wish to control the output using a User Code, Prox Tag or Radio Remote this option must be turn On.

Option 7 **<Control> button & App can Operate Output** - The <Control> button on the keypad can also be used to turn outputs on or off. For that to happen this option must be turned on for the output/s concerned. To turn an output on locally at the keypad the operator simply presses the <Control> button for 2 seconds at which time the "Control" LED will illuminate on an LED keypad or the word "OUTPUTS" will appear on the LCD keypad to indicate that the Control mode is active. If any controllable outputs are currently on they will be indicated at the keypad. The operator can now press a button relating to the output/s they wish to control eg pressing the "1" button will turn output 1 on or off, The "2" button for output 2 etc. When finished the operator then presses the <ENTER> button to cancel the Control mode and return to normal.

Option 8 **Pulsed Chime Mode Alarm** - Chime Zones programmed to this output will turn the output on for the duration of the Chime to Output time period (P41E). If this option is on the output will pulse at the pulse timer rate (P39E) for the duration of the chime zone to output timer (P41E).

OUTPUT OPTIONS "B"

OUTPUT OPTIONS "B" - P35E 1-8E
Option 1 - Mains Fail to Output
Option 2 - Fuse Failure to Output
Option 3 - Battery Low to Output
Option 4 - Communicator Failure to Output
Option 5 - Supervisory Radio Failure to Output
Option 6 - Sensor-Watch Alarm to Output
Option 7 - System Tamper to Output
Option 8 - Receiver Fail to Output

Option 1 **Mains Fail to Output** - This option is used to assign a Mains Fail alarm to an Output.

Option 2 **Fuse Failure to Output** - This option is used to assign a Fuse Failure alarm to an Output. The on-board fuses are thermally activated. If excessive current is drawn from a fuse it will disconnect the power until the problem is resolved. There are two thermal fuses protecting the various 12v DC outputs.

Option 3 **Battery Low to Output** - This option is used to assign a Battery Low alarm to an Output.

Option 4 **Communicator Failure to Output** - This option is used to assign a Telephone Line or IP Module Failure alarm to an Output.

Option 5 **Supervisory Radio failure to Output** - This option is used to assign a Radio Detector Supervisory Fail alarm to an Output.

Option 6 **Sensor-Watch Alarm to Output** - This option is used to assign a Sensor-Watch alarm to an Output. A Sensor-Watch alarm occurs when a detector has not operated within a set period of time.

Option 7 **System Tamper to Output** - This option is used to assign a panel tamper alarm to an Output.

Option 8 **Receiver Fail to Output** - If the receiver fail timer expires (see P25E7E) this option will assign the alarm to an Output.

OUTPUT OPTIONS "C"

OUTPUT OPTIONS "C" - P36E 1-8E
Option 1 - Walk-test Pulse to Output
Option 2 - Pulse Output every 5 seconds when Disarmed
Option 3 - Pulse Output on Kiss-off Following Arming
Option 4 - Pulse Output on Kiss-off Following a Zone Alarm

Option 5 - Output Disabled when P25E3E timer is running

Option 1 **Walk-test Pulse to Output** - When the panel is in Walk-test Mode, this option assigns a pulse to the Output every time a zone is triggered. The pulse is linked to the Output Pulse time (P39E).

Option 2 **Pulse Output every 5 seconds when Disarmed** - This option will cause the Output to pulse every 5 seconds when the panel is disarmed. The pulse time is linked to the Output Pulse time (P39E).

Option 3 **Pulse Output on Kiss-off Following Arming** - This option will cause the Output to pulse for 2 seconds when the panel is armed and the message has been kissed off by the monitoring company. The pulse time is linked to the Output Pulse time (P39E) which is defaulted to 2 seconds.

Option 4 **Pulse Output on Kiss-off Following a Zone Alarm** - This option will cause the Output to pulse for 2 seconds when a zone has gone into alarm and has been kissed off by the monitoring company. The zone must have with option 7 turned ON at P124E. The pulse time is linked to the Output Pulse time (P39E) which is defaulted to 2 seconds.

Option 5 **Output Disabled when P25E3E timer is running** - This option will cause the Output to be disabled when the dialler reporting delay is active. It is designed to keep external audible alarms silent when the dial delay is active (allowing internal alarms to warn that the alarm will be reported to monitoring if not unset) but if the alarm hasn't been reset before the timer expires the external alarm will sound

OUTPUT OPTIONS "D"

OUTPUT OPTIONS "D" - P37E 1-8E
Option 1 - Siren Driver to Output (applies to O/P 1&2 only, requires an 8Ω speaker)
Option 2 - Output Reset/Chime Timers are in Minutes
Option 3 - Output "Silenced" for 10 seconds on key-press
Option 4 - NA
Option 5 - Spare
Option 6 - Spare
Option 7 - Spare
Option 8 - Output Monitored (applies to O/P 1&2 only)

Option 1 **Siren Driver to Output** - This option is used to assign a Modulated Siren tone to an Output. The option only applies to Outputs 1 and 2. For the modulated siren tone to work correctly, an 8Ω speaker must be connected to the output concerned. Outputs 1 and 2 have different sounds so that a user can tell which output is operating. If this option is turned on for Outputs 1 and/or 2 it will also inhibit the Output during two way voice mode (see option 4 below).

Option 2 **Output Reset/Chime Timers are in Minutes** - The default setting for the Output reset time (P40E) is in seconds and the Output Chime time (P41E) is in 1/10th seconds. If longer times are required, this option turns both the reset and chime times into minutes (eg 1-9999 minutes for the reset time and 1-255 minutes for the chime time).

Option 3 **Output "Silenced" for 10 seconds on key-press** - When the alarm is Armed and activated it can be difficult sometimes to turn the alarm off because you are unable to hear the beeps as you enter you code at the keypad. If this option is turned on the selected output/s will silence (turn off) for 10 seconds on the first button press at any keypad. This should allow easy Disarming of the alarm by a valid User. If the alarm is not turned off within the 10 seconds, the outputs will turn on again. This function will only work once during an Armed cycle and the panel must be Disarmed before it will work again.

Option 8 **Output Monitored** - This option is used to allow Monitoring of the Output status (eg wire to siren has been cut). The option only applies to Outputs 1 and 2.

OUTPUT ON DELAY TIME

OUTPUT ON DELAY TIME - P38E 1-8E (0-9999 Seconds, 0 = no delay)
The "On" delay allows the operation of the Output to be delayed by the time programmed at this location. If set to "0" there will be no on delay and the Output will operate the instant it is turned on.

OUTPUT PULSE TIME

OUTPUT PULSE TIME - P39E 1-8E (0-255 1/10th Seconds, eg 20 = 2 secs)

The Pulse time affects the time the output turns on when the pulse timer is used on the Output. The pulse time is in 1/10th second increments so that very quick timing can be achieved. Functions like radio key Arm/Disarm Chirps to an Output or a flashing output (P34E option 2) all use the pulse timer. If access tags are assigned with the chirp function (P46E4E) and the LED on an access reader is set to follow an output with the chirps assigned (P98E) then this timer must be set to a minimum value of 10 for the reader LED to display the chirps.

OUTPUT RESET TIME

OUTPUT RESET TIME - P40E 1-8E (0-9999 Seconds, 0 = latched output)
The Reset time affects the time the output turns on when an alarm is active. The default range is 0-9999 seconds but if option 2 at location P37E is on the range is 0-9999 minutes.

CHIME MODE TIME

CHIME MODE TIME - P41E 1-8E (0-255 1/10th Seconds, eg 20 = 2 secs)
The Chime Mode time affects the time the output turns on when a Chime Zone is activated. The Chime time is in 1/10th second increments so that very quick timing can be achieved.

START OF "DTMF OUTPUT CONTROL" STATUS MESSAGES

START OF "DTMF OUTPUT CONTROL" STATUS MESSAGES - P42E 1-8E (0-99)
If a Voice Board is connected to the panel it is possible to dial the panel from a remote telephone and turn outputs On or Off using a 4 digit code with voice prompts provided by the Voice Board to identify what function you are controlling. The message programmed at this slot will be the output "ON" message and the output "OFF message must always follow sequentially (eg if output 1 on message was at slot 5 then output 1 off message must be recorded at slot 6). Please see Voice Board programming on Page 8 for more details.

UN-MAP OUTPUTS

UN-MAP OUTPUTS - P43E 1-8E
If you are using an Output for a special purpose and do not need the standard defaults assigned to that output you can remove all defaults at this location. For example if you are using output number 4 to open a door via a Radio Key and you don't want any alarms to be assigned to the output press P43E4E and ALL defaults will be removed. This removes all options assigned to the output and makes the reset time "0" for latched operation.

ASSIGNING A TIME-ZONE to an OUTPUT

ASSIGN A TIME-ZONE TO OUTPUTS - P44E 1-8E (O/P#) Value = Time-zone 1-8
Any of the 8 Time-zones can be assigned to outputs 1-8. If a time-zone is assigned to an output it will turn the output on when the T/Z starts and turn the output off when the T/Z ends. You should un-map the output at P43E first before assigning the T/Z to ensure that only the T/Z will control the state of the output.

Areas

AREA OPTIONS "A"

AREA OPTIONS "A" - P45E 1-2E (1 = Area A, 2 = Area B)

Option 1 - <ARM> button Required Before Code to Arm
Option 2 - <STAY> button Required Before code to Arm Stay Mode
Option 3 - <CODE> Required to Arm
Option 4 - <CODE> Required to Bypass
Option 5 - Spare

Option 6 - Report Arm Signal at the end of the Exit Delay
Option 7 - Can Arm only if All Zones Sealed (Ready)
Option 8 - Can Arm Stay Mode only if All Zones Sealed (Ready)

Option 1 **<ARM> button Required Before Code to Arm** - This option determines if the <ARM> button must be pressed before a code is entered to Arm an Area. If a User has access to both Areas and this option is turned on, the special keypad arming functions described on Page 32 will apply. This option does not apply to Prox/PIN readers or Stay mode keypads.

Option 2 **<STAY> button Required Before Code to Arm Stay Mode** - This option determines if the <STAY> button must be pressed before a code is entered to Arm Stay Mode. If a User has access to both Areas and this option is turned on, the special keypad arming functions described on Page 32 will apply. This option does not apply to Prox/PIN readers or Stay mode keypads.

Option 3 **<CODE> Required to Arm** - If this option is turned on, the <ARM> button is disabled and the panel requires a code to Arm.

Option 4 **<CODE> Required to Bypass** - If this option is turned on, the <BYPASS> button cannot access Bypass Mode directly. To enter Bypass mode the User must press <BYPASS> <CODE> <ENTER> before they can bypass zones.

Option 5 **Spare**

Option 6 **Report Arm Signal at the end of the Exit Delay** - If this option is on the panel will report the Arm signal to a monitoring station when the exit delay expires. If it is off, the panel will report the arm signal immediately the system has been armed.

Option 7 **Can Arm only if All Zones Sealed (Ready) -** If this option is on it stops the panel from arming an area with an unsealed zone (Not Ready). If off, the panel can be armed if the Ready LED is not on.

Option 8 **Can Arm Stay Mode only if All Zones Sealed (Ready) -** If this option is on it stops the panel from arming stay mode if an area has an unsealed zone (Not Ready). If off, the panel can be arm stay mode if the Ready LED is not on.

AREA OPTIONS "B"

AREA OPTIONS "B" - P46E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Use Near and Verified Alarm reporting for All zones in this Area (CID ONLY)
Option 2 - Area will Arm at the end of Time-Zone
Option 3 - Area will Disarm at the start of Time-Zone
Option 4 - Assign Chirps to Access tags
Option 5 - Spare
Option 6 - Spare
Option 7 - Cannot Arm if Zone Unsealed at end of Exit Delay
Option 8 - Spare

Option 1 **Use Near and Verified Alarm reporting for All zones in this Area** - To reduce the possibility of false alarms the panel can require two alarms on different zones within a 45 minute period before a full alarm will be sent. If this option is turned on it applies to all zones assigned to that area. An alarm on a single zone will send a CID (Contact ID) Near Alarm report to the monitoring station. If no further alarms occur within 45 minutes (and the zone that activated is sealed) the near alarm timer is reset and a restore is sent for the zone that activated. If the zone that activated is still unsealed when the 45 minute timer expires, a zone bypass for that zone will be sent and the zone will remain bypassed until the area is disarmed. Any new alarms after the timer has expired will send another Near Alarm report. If a second alarm on a different zone occurs within 45 minutes of the Near alarm, an Intrusion Verified alarm report will be sent. This format only applies to Contact ID and Pager reporting. Turning this option on will stop zone alarms from being reported in Domestic & Voice formats as there are no messages for near and confirmed alarms. You must turn this option off if using Domestic or Voice formats.

Option 2 **Area will Arm at the end of Time-Zone** - The panel is capable of automatically arming on a Time-Zone. If this option is turned on and a Time-Zone is selected at P68E, the Area will automatically arm when the Time-Zone ends. If the panel cannot arm because it is not "Ready", a fail to arm report will be sent.

Option 3 **Area will Disarm at the start of Time-Zone** - The panel is capable of automatically disarming on a

Time-Zone. If this option is turned on and a Time-Zone is selected at P68E, the Area will automatically disarm when the Time-Zone starts.

Option 4 **Assign Chirps to Access Tags** - If the panel is being Armed or Disarmed by an Access Tag/Card from a proximity reader it is possible to link the pendant chirps programming (P50E-P53E) to Arming or Disarming via the Access Tag or Card. If this option is On the chirps will apply to Access Tag/Cards. If the chirps are required to be displayed at the reader LED, the minimum pulse timer for the output (P39E) must be a value of 10.

Option 7 **Cannot Arm if Zone Unsealed at end of Exit Delay** - If this option is turned on and a zone becomes unsealed as the exit delay expires the panel will fail to arm and report this via the dialler. The unsealed zone must be corrected and the system re-armed again.

AREA ARM INDICATION to OUTPUT

AREA ARM INDICATION to OUTPUT - P47E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

For monitoring purposes an Arm indication can be assigned to an Output. Each Area can have a separate arm indication assigned to a different output if required.

AREA STAY ARM INDICATION to OUTPUT

AREA STAY ARM INDICATION to OUTPUT - P48E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

For monitoring purposes a Stay Arm indication can be assigned to an Output. Each Area can have a separate indication assigned to a different output if required.

AREA DISARM INDICATION to OUTPUT

AREA DISARM INDICATION to OUTPUT - P49E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

For monitoring purposes a Disarm indication can be assigned to an Output. Each Area can have a separate disarm indication assigned to a different output if required.

PENDANT ARM CHIRP to OUTPUT

PENDANT ARM CHIRP to OUTPUT - P50E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

When Arming the alarm using a Radio Key it is necessary to have some form of Arm indication. This can done by pulsing an Output once when the area is armed (one chirp). The Chirp is linked to the pulse time (P39E) for the output concerned. If Output 1 or 2 are used for the chirp and a horn speaker is connected to the output (see P37E1 or 2E option 1), the siren on the output will give a single tone for the chirp instead of the swept tone used for alarms. Also Arming via an Access Tag/Card can generate the Chirp if option 4 is On at P47E.

PENDANT STAY MODE ARM CHIRP to OUTPUT

PENDANT STAY MODE ARM CHIRP to OUTPUT - P51E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

When Arming Stay Mode using a Radio Key it is necessary to have some form of Arm indication. This can done by pulsing an Output once when the area is armed (one chirp). The Chirp is linked to the pulse time (P39E) for the output concerned. If Output 1 or 2 are used for the chirp and a horn speaker is connected to the output (see P37E1 or 2E option 1), the siren on the output will give a single tone for the chirp instead of the swept tone used for alarms. Also Stay Arming via an Access Tag/Card can generate the Chirp if option 4 is On at P47E.

PENDANT DISARM CHIRP to OUTPUT

PENDANT DISARM CHIRP to OUTPUT - P52E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

When Disarming the alarm using a Radio Key it is necessary to have some form of Disarm indication. This can done by pulsing an Output twice when the area is disarmed (two chirps). The Chirps are linked to the pulse time (P39E) for the output concerned. If Output 1 or 2 are used for the chirp and a horn speaker is connected to the output (see P37E1 or 2E option 1), the siren on the output will give a single tone for the chirp instead of the swept tone used for alarms. Also Disarming via an Access Tag/Card can generate the Chirp if option 4 is On at P47E.

PENDANT STAY MODE DISARM CHIRP to OUTPUT

PENDANT STAY MODE DISARM CHIRP to OUTPUT - P53E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

When Disarming Stay Mode using a Radio Key it is necessary to have some form of Disarm indication. This can done by pulsing an Output twice when the Stay Mode is disarmed (two chirps). The Chirps are linked to the pulse time (P39E) for the output concerned. If Output 1 or 2 are used for the chirp and a horn speaker is connected to the output (see P37E1 or 2E option 1), the siren on the output will give a single tone for the chirp instead of the swept tone used for alarms. Also Stay Mode Disarming via an Access Tag/Card can generate the Chirp if option 4 is On at P47E.

ARM PULSE to OUTPUT

ARM PULSE to OUTPUT - P54E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

Sometimes it is necessary to have a single pulse to indicate an Arm state. This could be used to start a video recorder or similar device. Each time an Area is armed, a single pulse will be applied to the output. The Pulse time (P39E) sets the length of the pulse .

STAY MODE ARM PULSE to OUTPUT

STAY MODE ARM PULSE to OUTPUT - P55E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

Sometimes it is necessary to have a single pulse to indicate that Stay Mode is Armed. This could be used to start a video recorder or similar device. Each time an Area Stay Mode is armed, a single pulse will be applied to the output. The Pulse time (P39E) sets the length of the pulse .

DISARM PULSE to OUTPUT

DISARM PULSE to OUTPUT - P56E 1-2E (1 = Area A, 2 = Area B)
Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

Sometimes it is necessary to have a single pulse to indicate a Disarm state. This could be used to stop a video recorder or similar device. Each time an Area is disarmed, a single pulse will be applied to the output. The Pulse time (P39E) sets the length of the pulse.

STAY MODE DISARM PULSE to OUTPUT

STAY MODE DISARM PULSE to OUTPUT - P57E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

Sometimes it is necessary to have a single pulse to indicate a Disarm of Stay Mode. This could be used to stop a video recorder or similar device. Each time an Area Stay Mode is disarmed, a single pulse will be applied to the output. The Pulse time (P39E) sets the length of the pulse.

ARMED EXIT DELAY BEEPS TO KEYPAD

ARMED EXIT DELAY BEEPS TO KEYPAD - P58E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Keypad 1 Option 5 - Keypad 5
Option 2 - Keypad 2 Option 6 - Keypad 6
Option 3 - Keypad 3 Option 7 - Keypad 7
Option 4 - Keypad 4 Option 8 - Keypad 8

When an Area is Armed it is useful to have the exit delay beeps occurring at the keypad to warn the User to exit the premises without delay. If the option is on at this address, that keypad will beep out the exit delay. The exit beeps occur at one second intervals until the last 5 seconds at which time they change to 1/2 second intervals to act as a warning that the delay is about to expire.

STAY MODE EXIT DELAY BEEPS TO KEYPAD

STAY MODE EXIT DELAY BEEPS TO KEYPAD - P59E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Keypad 1 Option 5 - Keypad 5
Option 2 - Keypad 2 Option 6 - Keypad 6
Option 3 - Keypad 3 Option 7 - Keypad 7
Option 4 - Keypad 4 Option 8 - Keypad 8

When an Area is Armed in Stay Mode it is useful to have the exit delay beeps occurring at the keypad to warn the User to exit the premises without delay. If the option is on at this address, that keypad will beep out the exit delay. This option may be turned off for Stay Mode to make the keypad silent when arming at night time. The exit beeps occur at one second intervals until the last 5 seconds at which time they change to 1/2 second intervals to act as a warning that the delay is about to expire. When arming Stay Mode the exit and entry delays can be cancelled by

pressing the <ENTER> button following arming of Stay Mode. The next time Stay Mode is armed, if the <ENTER> button is not pressed, all programmed exit and entry delays will apply.

ARMED EXIT DELAY TIME

ARMED EXIT DELAY TIME - P60E 1-2E (1 = Area A, 2 = Area B) (Value 0-255 Seconds)

Each Area can have their own exit delay time. The delay can be programmed from 1-255 seconds in one second increments. If the exit delay is set to "0" the panel will be instantly armed.

STAY MODE EXIT DELAY TIME

STAY MODE EXIT DELAY TIME - P61E 1-2E (1 = Area A, 2 = Area B) (Value 0-255 Seconds)

Each Stay Mode Area can have their own exit delay time. The delay can be programmed from 1-255 seconds in one second increments. If the exit delay is set to "0" the panel will be instantly armed.

MONITORING ACCOUNT CODE NUMBER

MONITORING ACCOUNT CODE NUMBER - P62E 1-2E (1 = Area A, 2 = Area B) (Value 0000-FFFF)

When the dialler is reporting to a monitoring station there must be a unique account code programmed to identify the panel. There is an account code for each area. The account code is 4 digits. Each digit can be a number from 0-9 as well as the special characters B,C,D,E & F. The chart below shows how the special characters are entered.

LED KEYPAD BUTTON	LED KEYPAD INDICATION	LCD KEYPAD BUTTON	LCD KEYPAD CID & 4+2 INDICATIONS	LCD KEYPAD TELEPHONE INDICATIONS	CID & 4+2 SPECIAL CHARACTERS	TELEPHONE NUMBER SPECIAL FUNCTION
"BYPASS"	-	CONTROL & 0	-	DELETE #	DELETE #	DELETE #
"PANIC"	11	CONTROL & 2	B	#	"B"	"#"
"MEMORY"	12	CONTROL & 3	C	*	"C"	"*"
"CONTROL"	13	CONTROL & 4	D	-	"D"	"2.5 sec Pause"
"ARM"	14	CONTROL & 5	E	w	"E"	"Wait for 2nd Dial-tone"
"STAY"	15	CONTROL & 6	F	=	"F"	"5 sec Pause"

DTMF REMOTE CONTROL CODE NUMBER

DTMF REMOTE CODE NUMBER - P63E 1-2E (1 = Area A, 2 = Area B) (Value 1-4 digit code 0-9999)

The panel can be configured to allow remote Arm/Disarm of each Area via a remote telephone. The codes programmed at this address are the DTMF code that must be used when performing this function. When dialling the panel and it has answered the call, after waiting for the panel modem tones to stop you can enter in the 4 digit DTMF code and the current status will be given of the Area associated with the code entered. After that, if you press the "*" button on the telephone the status of the area will toggle eg if is was previously armed it will change to disarmed or vice versa. When finished you simply hang-up and 15 seconds later the panel will release the line.

START OF "DTMF ARM/DISARM" STATUS MESSAGES

START OF "DTMF ARM/DISARM" STATUS MESSAGES - P64E 1-2E (1 = Area A, 2 = Area B) (0-99)

If a Voice Board is connected to the panel it is possible to dial the panel from a remote telephone and Arm or Disarm each Area using a 4 digit code with voice prompts provided by the Voice Board to identify what Area you are controlling. The message programmed at this slot will be the "ARMED" message and the "DISARMED message must always follow sequentially (eg if area A armed message was at slot 3 the area A disarmed message must be

recorded at slot 4). Please see Voice Board programming on Page 8 for more details.

ARMED EXIT BEEPS to OUTPUT

ARMED EXIT BEEPS to OUTPUT - P65E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2
Option 3 - Output 3
Option 4 - Output 4
Option 6 - Output 6
Option 7 - Output 7
Option 8 - Output 8

Sometimes it can be useful to extend the exit beeps, that occur at a keypad, to be present on an audible device on the exit path. This option allows the exit beeps during arming to be assigned to any of the 8 outputs. The Pulse time (P39E) sets the length of each beep.

STAY MODE ARM EXIT BEEPS to OUTPUT

STAY MODE ARM EXIT BEEPS to OUTPUT - P66E 1-2E (1 = Area A, 2 = Area B)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2
Option 3 - Output 3
Option 4 - Output 4
Option 6 - Output 6
Option 7 - Output 7
Option 8 - Output 8

Sometimes it can be useful to extend the exit beeps, that occur at a keypad, to be present on an audible device on the exit path. This option allows the exit beeps during the arming of stay mode to be assigned to any of the 8 outputs. The Pulse time (P39E) sets the length of each beep.

AREA DELINQUENCY DELAY

AREA DELINQUENCY DELAY - P67E 1-2E (1 = Area A, 2 = Area B) (Value 0-99 Days)

Each Area can have their own Delinquency time. The delinquency time monitors the arm/disarms of each Area. If an Area has not been armed within the set number of days a delinquency report will be sent. Each time an Area is armed the delinquency timer is reset. A value of "0" disables the delinquency monitoring.
NOTE: If the default value of "0" is changed at this location (eg a value of 10 is entered meaning 10 days), the next time the area is armed a delinquency restore message will be sent via the dialler (Event type 454) as a test that the function is operating.

AUTOMATIC ARM/DISARM TIMEZONE

AUTOMATIC ARM/DISARM TIMEZONE - P68E 1-2E (1 = Area A, 2 = Area B) (Value 1-8)

Option 1 - Time-Zone 1
Option 2 - Time-Zone 2
Option 3 - Time-Zone 3
Option 4 - Time-Zone 4
Option 5 - Time-Zone 5
Option 6 - Time-Zone 6
Option 7 - Time-Zone 7
Option 8 - Time-Zone 8

If Option 2 or 3 are turned on location P46E then the Area can be automatically armed or disarmed by a time-zone/s. You can assign more than one time-zone to each Area. If assigning multiple time-zones you should insure that they do not overlap as this could cause confusion. A Time-zone would typically be 0830-1700 Monday-Friday. An area will turn on when the Time-zone ends (eg 1700) and turn off when a Time-zone starts (eg 0830)

Keypads

KEYPAD AREA ASSIGNMENT

KEYPAD AREA ASSIGNMENT - P71E 1-8E

Option 1 - Area "A"
Option 2 - Area "B"

Option 1 **Area "A"** - This option assigns Area A to keypads. If a keypad is assigned to only Area A it can only Arm or Disarm that area.

Option 2 **Area "B"** - This option assigns Area B to keypads. If a keypad is assigned to only Area B it can only Arm or Disarm that area.

KEYPAD BUTTON OPTIONS

KEYPAD BUTTON OPTIONS - P72E 1-8E

Option 1 - <CHIME> or <CONTROL><PROGRAM> button Enabled
Option 2 - <BYPASS> button Enabled
Option 3 - <PANIC> button Enabled
Option 4 - Delayed Operation of <PANIC> button
Option 5 - <1> + <3> or <CONTROL> + <CHIME> Panic Alarm Enabled
Option 6 - <4> + <6> or <A> + <B> Fire Alarm Enabled
Option 7 - <7> + <9> or <B> + <CHIME> Medical Alarm Enabled
Option 8 - Stay Armed Beep to Keypad

Option 1 **<CHIME> or <CONTROL><PROGRAM> button Enabled** - This option enables the <CHIME> button on the Crow LCD keypads or the <CONTROL> followed by the <PROGRAM> button on the LED and AAP LCD keypads. Chime alarms to the keypad buzzer and outputs are disabled when "Chime" is off. If a zone is programmed as a Chime Zone, it can beep the buzzer on a keypad and/or turn on an output as well to give a local "CHIME" indication. A typical use of "Chime" Mode is as a door minder in a shop. Sometimes it may be desirable to disable Chime mode without the need to reprogram the panel. This can be achieved by allowing Chime Mode to be disabled with the <CHIME> button on a Crow LCD keypad, or by using the <CONTROL> and <PROGRAM> buttons on an LED or AAP LCD keypad. If you press the <CHIME> button on a Crow LCD keypad for 2 seconds (and this option is turned on for that keypad) the display will show "Chime Mode OFF". This means that the buzzer will now not sound at the keypad concerned and any Chime Mode Outputs will not activate. Pressing the <CHIME> button again for 2 seconds will toggle chime mode back to on again. If using an LED or AAP LCD keypad (which do not have a dedicated chime button), you simply press and hold the <CONTROL> Button and within 2 seconds then press the <PROGRAM> button to toggle chime mode. The AAP LCD keypad will show "Chime Mode OFF' and the LED keypad will turn on the "AUX(O)" Led to show that chime mode is off. Performing the process again will toggle chime mode back to the on state again.

Option 2 **<BYPASS> button Enabled** - This option enables the <BYPASS> button (by keypad number) on any keypads connected to the panel .

Option 3 **<PANIC> button Enabled** - This option enables the <PANIC> button (by keypad number) on the LED or AAP LCD keypads connected to the panel .

Option 4 **Delayed Operation of <PANIC> button** - This option assigns a 2 second delay before the <PANIC> button will cause an alarm. The button must be held down for longer than 2 seconds to create a panic alarm.

Option 5 **<1> + <3> or CCONTROL> + <CHIME> Panic Alarm Enabled** - This option enables a Panic Alarm to be created when buttons <1> + <3> are pressed simultaneously on the LED or AAP LCD keypads. It also enables the <CHIME> + <CONTROL> Panic Alarm when both buttons are pressing simultaneously on a Crow LCD keypad.

Option 6 **<4> + <6> or <A> + <B> Fire Alarm Enabled** - This option enables a Fire Alarm to be created when buttons <4> + <6> are pressed simultaneously on the LED or AAP LCD keypads. It also enables the <A> + <B> Fire Alarm when both buttons are pressing simultaneously on a Crow LCD keypad.

Option 7 **<7> + <9> or <B> + <CHIME> Medical Alarm Enabled** - This option enables a Medical Alarm to be created when buttons <7> + <9> are pressed simultaneously on the LED or AAP LCD keypads. It also enables the <B> + <CHIME> Medical Alarm when both buttons are pressing simultaneously on a Crow LCD keypad.

Option 8 **Stay Armed Beep to Keypad** - If this option is turned on the keypad will give three short beeps when Stay Mode is armed. It is designed to be used when stay mode exit delay beeps (P59E) are turned off to provide an audible indication that Stay mode is now armed from the selected keypad.

KEYPAD SYSTEM BEEPS & LED OPTIONS

KEYPAD SYSTEM BEEPS & LED OPTIONS - P73E 1-8E

Option 1 - Mains Fail Beeps Keypad Buzzer
Option 2 - Fuse Fail Beeps Keypad Buzzer
Option 3 - Battery Low Beeps Keypad Buzzer
Option 4 - Telephone Line Fail Beeps Keypad Buzzer
Option 5 - System Tamper Beeps Keypad Buzzer
Option 6 - Receiver Fail Beeps Keypad Buzzer
Option 7 - Turn Off Keypad LED's when Armed
Option 8 - Turn Off Keypad LCD & Keypad Backlighting on Mains Fail

Option 1 **Mains Fail Beeps Keypad Buzzer** - If this option is on a Mains Failure will cause the keypad buzzer to sound continuously. The continuous beep will automatically clear when the Mains returns to normal or it can be silenced by pressing the <ENTER> button on the keypad.

Option 2 **Fuse Fail Beeps Keypad Buzzer** - If this option is on a Fuse Failure (12v DC output short) will cause the keypad buzzer to sound continuously. The continuous beep will automatically clear when the short is removed and the fuse returns to normal or it can be silenced by pressing the <ENTER> button on the keypad.

Option 3 **Battery Low Beeps Keypad Buzzer** - If this option is on a Panel Battery Low will cause the keypad buzzer to sound continuously. The continuous beep will automatically clear when the battery returns to normal or it can be silenced by pressing the <ENTER> button on the keypad.

Option 4 **Telephone Line Fail Beeps Keypad Buzzer** - If this option is on a Telephone Line Failure will cause the keypad buzzer to sound continuously. The continuous beep will automatically clear when the Telephone Line returns to normal or it can be silenced by pressing the <ENTER> button on the keypad.

Option 5 **System Tamper Beeps Keypad Buzzer** - If this option is on a Panel Tamper Alarm will cause the keypad buzzer to sound continuously. The Alarm must then be cleared by entering in a valid code at the keypad.

Option 6 **Receiver Fail Beeps Keypad Buzzer** - If this option is on a Receiver Failure will cause the keypad buzzer to sound continuously. The continuous beep will automatically clear when the Receiver starts to see transmissions again or it can be silenced by pressing the <ENTER> button on the keypad.

Option 7 **Turn Off Keypad LED's when Armed** - This option allows the LED's on a keypad to be turned off when the panel is in the Armed state. It is normally used to cut the illumination from a keypad at night time. The LED's will return to the normal state on disarming of the alarm. The LED's will turn off within 90 seconds of arming the system. If this option is turned on and all areas assigned to keypads are armed, the keypad display will be blank during the armed state. If any keypad is assigned to areas A&B at location P71E, both areas must be armed before the display will go blank on arming.

Option 8 **Turn Off Keypad LCD & Keypad Backlighting on Mains Fail** - This option allows the backlighting on an LCD on a keypad (both the keypad buttons and the LCD module backlighting) to be turned off when there is a Mains Failure. It is normally used to cut the power consumed by the keypad during a power failure. The LCD backlighting will turn off within 90 seconds of the mains failing. If a button is pressed at the keypad the backlighting will turn back on again. Following 90 seconds of no keypad activity the backlighting will turn off. The LCD backlighting will return to the normal state when Mains is restored.

KEYPAD <ARM> BUTTON AREA ASSIGNMENT

KEYPAD <ARM> BUTTON AREA ASSIGNMENT - P74E 1-8E

Option 1 - Area "A"
Option 2 - Area "B"

Option 1 **Area "A"** - This option assigns the keypad <ARM> button to Area A. If a keypad <ARM> button is assigned to only Area A it can only Arm or Disarm that area.

Option 2 **Area "B"** - This option assigns the keypad <ARM> button to Area B. If a keypad <ARM> button is assigned to only Area B it can only Arm or Disarm that area.

KEYPAD <ARM> BUTTON AREA OPTIONS

KEYPAD <ARM> BUTTON AREA OPTIONS - P75E 1-8E

Option 1 - <ARM> button can Arm
Option 2 - <ARM> button can Arm Stay Mode
Option 3 - <ARM> button can Disarm at All Times
Option 4 - <ARM> button can Disarm Stay Mode at All Times
Option 5 - <ARM> button can Reset Alarms
Option 6 - <ARM> button can Arm Latchkey Mode
Option 7 - <ARM> button can Disarm During Exit Delay
Option 8 - <ARM> button can Disarm Stay Mode During Exit Delay

Option 1 **<ARM> button can Arm** - This option enables single button Arming using the <ARM> button. For single button operation to work options 1 & 3 must be off at location P45E.

Option 2 **<ARM> button can Arm Stay Mode** - This option enables single button Arming of Stay Mode using the <ARM> button. For single button operation to work options 1 & 3 must be off at location P45E. **(NOTE: Following arming of Stay Mode, if the <ENTER> button is pressed, all entry & exit delays will be reset to zero for that armed period).**

Option 3 **<ARM> button can Disarm at All Times** - This option enables single button Disarming using the <ARM> button. For single button disarm operation to work options 1 & 3 must be off at location P45E

Option 4 **<ARM> button can Disarm Stay Mode at All Times** - This option enables single button Disarming of Stay Mode using the <ARM> button. For single button disarm operation to work options 1 & 3 must be off at location P45E

Option 5 **<ARM> button can Reset Alarms** - If this option is On, Pressing the <ARM> button (provided Option 3 is also On) will reset an alarm condition without having to enter a user code.

Option 6 **<ARM> button can Arm Latchkey Mode** - This option enables single button Arming of the alarm in Latchkey report mode using the <ARM> button. For single button disarm operation to work options 1 & 3 must be off at location P45E. When Latchkey Mode is set on Arming, any code without the Latchkey option (P4E Option 6) used to Disarm the Alarm will cause a Disarm report to be sent via the dialler.

Option 7 **<ARM> button can Disarm During Exit Delay** - This option allows single button Disarming using the <ARM> button provided the Armed Mode exit delay is active. If the exit delay has expired the <ARM> button cannot be used to disarm the alarm. For single button disarm operation to work options 1 & 3 must be off at location P45E

Option 8 **<ARM> button can Disarm Stay Mode During Exit Delay** - This option allows single button Disarming of Stay Mode using the <ARM> button provided the Stay Mode exit delay is active. If the Stay Mode exit delay has expired the <ARM> button cannot be used to disarm Stay Mode. For single button disarm operation to work options 1 & 3 must be off at location P45E

KEYPAD <STAY> BUTTON AREA ASSIGNMENT

KEYPAD <STAY> BUTTON AREA ASSIGNMENT - P76E 1-8E

Option 1 - Area "A"
Option 2 - Area "B"

Option 1 **Area "A"** - This option assigns the keypad <STAY> button to Area A. If a keypad <STAY> button is assigned to only Area A it can only Arm or Disarm that area.

Option 1 **Area "B"** - This option assigns the keypad <STAY> button to Area B. If a keypad <STAY> button is assigned to only Area B it can only Arm or Disarm that area.

KEYPAD <STAY> BUTTON AREA OPTIONS

KEYPAD <STAY> BUTTON AREA OPTIONS - P77E 1-8E

Option 1 - <STAY> button can Arm
Option 2 - <STAY> button can Arm Stay Mode
Option 3 - <STAY> button can Disarm at All Times
Option 4 - <STAY> button can Disarm Stay Mode at All Times
Option 5 - <STAY> button can Reset Alarms
Option 6 - <STAY> button can Arm Latchkey Mode
Option 7 - <STAY> button can Disarm During Exit Delay
Option 8 - <STAY> button can Disarm Stay Mode During Exit Delay

Option 1 **<STAY> button can Arm** - This option enables single button Arming using the <STAY> button. For single button operation to work options 2 & 3 must be off at location P45E.

Option 2 **<STAY> button can Arm Stay Mode** - This option enables single button Arming of Stay Mode using the <STAY> button. For single button operation to work options 2 & 3 must be off at location P45E. **(NOTE: Following arming of Stay Mode, if the <ENTER> button is pressed, all entry & exit delays will be reset to zero for that armed period).**

Option 3 **<STAY> button can Disarm at All Times** - This option enables single button Disarming using the <STAY> button. For single button disarm operation to work options 2 & 3 must be off at location P45E

Option 4 **<STAY> button can Disarm Stay Mode at All Times** - This option enables single button Disarming of Stay Mode using the <STAY> button. For single button disarm operation to work options 2 & 3 must be off at location P45E

Option 5 **<STAY> button can Reset Alarms** - If this option is On, Pressing the <STAY> button (provided Option 4 is also On) will reset an alarm condition without having to enter a user code.

Option 6 **<STAY> button can Arm Latchkey Mode** - This option enables single button Arming of the alarm in Latchkey report mode using the <STAY> button. For single button disarm operation to work options 2 & 3 must be off at location P45E. When Latchkey Mode is set on Arming, any code without the Latchkey option (P4E Option 6) used to Disarm the Alarm will cause a Disarm report to be sent via the dialler.

Option 7 **<STAY> button can Disarm During Exit Delay** - This option allows single button Disarming using the <STAY> button provided the Armed Mode exit delay is active. If the exit delay has expired the <STAY> button cannot be used to disarm the alarm. For single button disarm operation to work options 2 & 3 must be off at location P45E

Option 8 **<STAY> button can Disarm Stay Mode During Exit Delay** - This option allows single button Disarming of Stay Mode using the <STAY> button provided the Stay Mode exit delay is active. If the Stay Mode exit delay has expired the <STAY> button cannot be used to disarm Stay Mode. For single button disarm operation to work options 2 & 3 must be off at location P45E

KEYPAD <A> BUTTON AREA ASSIGNMENT

KEYPAD <A> BUTTON AREA ASSIGNMENT - P78E 1-8E (APPLIES TO CROW LCD KEYPAD ONLY)

Option 1 - Area "A"
Option 2 - Area "B"

Option 1 **Area "A"** - This option assigns the keypad <A> button to Area A. If a keypad <A> button is assigned to only Area A it can only Arm or Disarm that area.

Option 1 **Area "B"** - This option assigns the keypad <A> button to Area B. If a keypad <A> button is assigned to only Area B it can only Arm or Disarm that area.

KEYPAD <A> BUTTON AREA OPTIONS

KEYPAD <A> BUTTON AREA OPTIONS - P79E 1-8E (APPLIES TO CROW LCD KEYPAD ONLY)

Option 1 - <A> button can Arm
Option 2 - <A> button can Arm Stay Mode
Option 3 - <A> button can Disarm at All Times
Option 4 - <A> button can Disarm Stay Mode at All Times

Option 5 - <A> button can Reset Alarms
Option 6 - <A> button can Arm Latchkey Mode
Option 7 - <A> button can Disarm During Exit Delay
Option 8 - <A> button can Disarm Stay Mode During Exit Delay

Option 1 **<A> button can Arm** - This option enables single button Arming using the <A> button. For single button operation to work options 2 & 3 must be off at location P45E.

Option 2 **<A> button can Arm Stay Mode** - This option enables single button Arming of Stay Mode using the <A> button. For single button operation to work options 2 & 3 must be off at location P45E.
(NOTE: Following arming of Stay Mode, if the <ENTER> button is pressed, all entry & exit delays will be reset to zero for that armed period).

Option 3 **<A> button can Disarm at All Times** - This option enables single button Disarming using the <A> button. For single button disarm operation to work options 2 & 3 must be off at location P45E

Option 4 **<A> button can Disarm Stay Mode at All Times** - This option enables single button Disarming of Stay Mode using the <A> button. For single button disarm operation to work options 2 & 3 must be off at location P45E

Option 5 **<A> button can Reset Alarms** - If this option is On, Pressing the <A> button (provided Option 3 is also On) will reset an alarm condition without having to enter a user code.

Option 6 **<A> button can Arm Latchkey Mode** - This option enables single button Arming of the alarm in Latchkey report mode using the <A> button. For single button Arm operation to work options 2 & 3 must be off at location P45E. When Latchkey Mode is set on Arming, any code without the Latchkey option (P4E Option 6) used to Disarm the Alarm will cause a Disarm report to be sent via the dialler.

Option 7 **<A> button can Disarm During Exit Delay** - This option allows single button Disarming using the <A> button provided the Armed Mode exit delay is active. If the exit delay has expired the <A> button cannot be used to disarm the alarm. For single button disarm operation to work options 2 & 3 must be off at location P45E

Option 8 **<A> button can Disarm Stay Mode During Exit Delay** - This option allows single button Disarming of Stay Mode using the <A> button provided the Stay Mode exit delay is active. If the Stay Mode exit delay has expired the <A> button cannot be used to disarm Stay Mode. For single button disarm operation to work options 2 & 3 must be off at location P45E

KEYPAD <B> BUTTON AREA ASSIGNMENT

KEYPAD <B> BUTTON AREA ASSIGNMENT - P80E 1-8E (APPLIES TO CROW LCD KEYPAD ONLY)

Option 1 - Area "A"
Option 2 - Area "B"

Option 1 **Area "A"** - This option assigns the keypad <B> button to Area A. If a keypad <B> button is assigned to only Area A it can only Arm or Disarm that area.

Option 1 **Area "B"** - This option assigns the keypad <B> button to Area B. If a keypad <B> button is assigned to only Area B it can only Arm or Disarm that area.

KEYPAD <B> BUTTON AREA OPTIONS

KEYPAD <B> BUTTON AREA OPTIONS - P81E 1-8E (APPLIES TO CROW LCD KEYPAD ONLY)

Option 1 - <B> button can Arm
Option 2 - <B> button can Arm A Mode
Option 3 - <B> button can Disarm at All Times
Option 4 - <B> button can Disarm Stay Mode at All Times
Option 5 - <B> button can Reset Alarms
Option 6 - <B> button can Arm Latchkey Mode
Option 7 - <B> button can Disarm During Exit Delay
Option 8 - <B> button can Disarm Stay Mode During Exit Delay

Option 1 **<B> button can Arm** - This option enables single button Arming using the <B> button. For single button operation to work options 2 & 3 must be off at location P45E.

Option 2 **<B> button can Arm Stay Mode** - This option enables single button Arming of Stay Mode using the <B> button. For single button operation to work options 2 & 3 must be off at location P45E.
(NOTE: Following arming of Stay Mode, if the <ENTER> button is pressed, all entry & exit delays will be reset to zero for that armed period).

Option 3 **<B> button can Disarm at All Times** - This option enables single button Disarming using the <B> button. For single button disarm operation to work options 2 & 3 must be off at location P45E

Option 4 **<B> button can Disarm Stay Mode at All Times** - This option enables single button Disarming of Stay Mode using the <B> button. For single button disarm operation to work options 2 & 3 must be off at location P45E

Option 5 **<B> button can Reset Alarms** - If this option is On, Pressing the <B> button (provided Option 3 is also On) will reset an alarm condition without having to enter a user code.

Option 6 **<B> button can Arm Latchkey Mode** - This option enables single button Arming of the alarm in Latchkey report mode using the <B> button. For single button Arm operation to work options 2 & 3 must be off at location P45E. When Latchkey Mode is set on Arming, any code without the Latchkey option (P4E Option 6) used to Disarm the Alarm will cause a Disarm report to be sent via the dialler.

Option 7 **<B> button can Disarm During Exit Delay** - This option allows single button Disarming using the <B> button provided the Armed Mode exit delay is active. If the exit delay has expired the <B> button cannot be used to disarm the alarm. For single button disarm operation to work options 2 & 3 must be off at location P45E

Option 8 **<B> button can Disarm Stay Mode During Exit Delay** - This option allows single button Disarming of Stay Mode using the <B> button provided the Stay Mode exit delay is active. If the Stay Mode exit delay has expired the <B> button cannot be used to disarm Stay Mode. For single button disarm operation to work options 2 & 3 must be off at location P45E

KEYPAD to OUTPUT MASK

KEYPAD to OUTPUT MASK - P82E 1-8E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

A Keypad can be assigned to an Output or multiple Outputs. If a Keypad is not assigned to an Output a User cannot turn that Output On or Off from the Keypad. This feature is useful when using the access control features of the panel, eg a User may be allowed to operate more than one Output with their code but they will be limited to just the Output assigned to the Keypad they are using.

<CONTROL> BUTTON to OUTPUT MASK

<CONTROL> BUTTON to OUTPUT MASK - P83E 1-8E
Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

The <CONTROL> button at a Keypad can be assigned to an Output or multiple Outputs. If the <CONTROL> button is not assigned to an Output a User cannot access Local Control Mode (by pressing the <CONTROL> button) and turn that Output On or Off from the Keypad. This feature is useful if Outputs are being used to control devices such as lights, etc and you wish to be able to turn them On or Off from a keypad. By limiting the access to Outputs via the <CONTROL> button you can avoid conflict with alarm outputs (eg the User can be denied access to outputs that are being used for alarm functions).

KEYPAD PANIC ALARM to OUTPUT

KEYPAD PANIC ALARM to OUTPUT - P84E 1-8E (includes <PANIC>, <1> & <3> or <CONTROL> & <CHIME>)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6

Option 3 - Output 3
Option 4 - Output 4
Option 7 - Output 7
Option 8 - Output 8

A Keypad generated Panic Alarm (either pressing the <PANIC> button, <1> & <3> or <CONTROL> & <CHIME> together) can be assigned to an Output or multiple Outputs. This can be used to operate an audible or visual alarm connected to the Output.

KEYPAD FIRE ALARM to OUTPUT

KEYPAD FIRE ALARM to OUTPUT - P85E 1-8E (includes <A> & <B> or <4> & <6>)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2
Option 3 - Output 3
Option 4 - Output 4
Option 6 - Output 6
Option 7 - Output 7
Option 8 - Output 8

A Keypad generated Fire Alarm (either pressing the <A> & <B> or <4> & <6> together) can be assigned to an Output or multiple Outputs. This can be used to operate an audible or visual alarm connected to the Output.

KEYPAD MEDICAL ALARM to OUTPUT

KEYPAD MEDICAL ALARM to OUTPUT - P86E 1-8E (includes <B> & <CHIME> or <7> & <9>)

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2
Option 3 - Output 3
Option 4 - Output 4
Option 6 - Output 6
Option 7 - Output 7
Option 8 - Output 8

A Keypad generated Medical Alarm (either pressing the <B> & <CHIME> or <7> & <9> together) can be assigned to an Output or multiple Outputs. This can be used to operate an audible or visual alarm connected to the Output.

KEYPAD DURESS ALARM to OUTPUT

KEYPAD DURESS ALARM to OUTPUT - P87E 1-8E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2
Option 3 - Output 3
Option 4 - Output 4
Option 6 - Output 6
Option 7 - Output 7
Option 8 - Output 8

A Keypad generated Duress Alarm (see P25E2E) can be assigned to an Output or multiple Outputs. This can be used to operate an audible or visual alarm connected to the Output. A Duress alarm is created when the alarm is Disarmed with the Duress digit preceding a valid User Code.

KEYPAD TAMPER SWITCH ALARM to OUTPUT

KEYPAD TAMPER SWITCH ALARM to OUTPUT - P88E 1-8E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2
Option 3 - Output 3
Option 4 - Output 4
Option 6 - Output 6
Option 7 - Output 7
Option 8 - Output 8

If the keypad has a Tamper Switch fitted and this switch is activated, the Tamper Alarm can be assigned to an Output or multiple Outputs. This can be used to operate an audible or visual alarm connected to the Output.

KEYPAD WRONG CODE ALARM to OUTPUT

KEYPAD WRONG CODE ALARM to OUTPUT - P89E 1-8E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2
Option 3 - Output 3
Option 4 - Output 4
Option 6 - Output 6
Option 7 - Output 7
Option 8 - Output 8

If someone is attempting disarm the alarm by trying various code combinations and they enter in 4 wrong codes

the panel will go into a "Wrong Code" tamper alarm. The Alarm can be assigned to an Output or multiple Outputs. This can be used to operate an audible or visual alarm connected to the Output. A correct code entry will reset the tamper alarm.

MANUAL PANIC ALARM BEEPS TO KEYPAD

MANUAL PANIC ALARM BEEPS TO KEYPAD - P90E 1-8E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

When a keypad generated Panic Alarm is generated, the alarm can be silent or it can operate the buzzer in the keypad.

MANUAL FIRE ALARM BEEPS TO KEYPAD

MANUAL FIRE ALARM BEEPS TO KEYPAD - P91E 1-8E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

When a keypad generated Fire Alarm is generated, the alarm can be silent or it can operate the buzzer in the keypad.

MANUAL MEDICAL ALARM BEEPS TO KEYPAD

MANUAL MEDICAL ALARM BEEPS TO KEYPAD - P92E 1-8E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

When a keypad generated Medical Alarm is generated, the alarm can be silent or it can operate the buzzer in the keypad.

WRONG CODE or KEYPAD TAMPER BEEPS TO KEYPAD

WRONG CODE or KEYPAD TAMPER SWITCH ALARM BEEPS TO KEYPAD - P93E 1-8E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

If someone enters in an incorrect code more than 4 times or a Keypad Tamper Switch Alarm is generated, the alarm can be silent or it can operate the buzzer in the keypad. The selected keypad, e.g. P93E1E for keypad number 1 is the one at which the alarm has occurred and the options 1-8 are the keypads that will beep in alarm.

CHIME ALARM KEYPAD BEEP TIME

CHIME ALARM KEYPAD BEEP TIME - P94E 1-8E (Value = 0-255 1/10th Second)

When a Chime Zone is activated it can operate an Output and/or beep the keypad buzzer. There is a separate Chime timer for each of the 8 keypads. If the value is made "0" for a keypad the Chime Zone will not beep the keypad buzzer. The Keypad Chime Timer can be set to a value from 1-255. The units are in 1/10th second

increments. This means that a value of 10 will beep the keypad buzzer for 1 second.

PROXIMITY READER LED to OUTPUT MAPPING

PROXIMITY READER LED to OUTPUT MAPPING - P98E 1-8E

Option 1 - Proximity Reader 1-8 LED follows Output 1
Option 2 - Proximity Reader 1-8 LED follows Output 2
Option 3 - Proximity Reader 1-8 LED follows Output 3
Option 4 - Proximity Reader 1-8 LED follows Output 4
Option 5 - Proximity Reader 1-8 LED follows Output 5
Option 6 - Proximity Reader 1-8 LED follows Output 6
Option 7 - Proximity Reader 1-8 LED follows Output 7
Option 8 - Proximity Reader 1-8 LED follows Output 8

If a proximity reader is connected to the control panel it may be desirable to have the LED provide some form of indication such as Arm/Disarm state, etc. By using this location it is possible to link the LED at a reader number to follow the programming of an output. The LED can be used to indicate Arm/Disarm state, Stay Mode Arm/disarm, output On/Off, etc. If chirps have been assigned to access tags/cards (P46E4E) and the output the reader LED is set to follow has the chirps assigned (P50E-P53E), then the output must have a minimum pulse time (P39E) of 10 for it to work correctly.
The proximity reader keypad address number is set at P99E as detailed below.

LEARN PROXIMITY READER KEYPAD ADDRESS NUMBER

LEARN PROXIMITY READER KEYPAD ADDRESS NUMBER - P99E 1-8E (Value = Keypad Address 1-8)

When a Proximity reader is connected to the panel it must have a unique keypad address number assigned so that any program options can be assigned to that specific reader. To program the keypad address you must first connect the reader to the panel via the keypad buss. Then from installer program mode, enter in P99E followed by the keypad address you wish to assign to the reader (eg P99E4E will assign keypad address 4). To assign this keypad address to a selected reader you have to present a tag or card 5 times within 10 seconds to learn the keypad address number. The tag or card does not have to be enrolled at the panel to set the keypad address. When the address has been learnt by the reader it sends an acknowledgement back to the panel which will stop the learn mode. To assign a different address to another reader you must go through the same process again only this time entering in a different keypad address number (eg P99E5E for keypad address 5). Repeat the process until all readers have been assigned a unique keypad address. Now any keypad specific options can be assigned to the readers (eg assign areas/outputs or users to the reader).

If you do not assign a unique address to every keypad and reader connected to the keypad buss, a conflict will exist that will cause erratic operation. Each reader or keypad MUST have a different address.

NOTE: The proximity and arming readers flash out the assigned keypad address number on their LED whenever the panel is in "Installer Program" Mode. This allows quick identification of the assigned address for each reader.

Key-switches

The two Key-Switch inputs are available on the panel tamper. Normally the panel tamper is a single 2k2 EOL resistor, however if the tamper input is wired as per the type 14 option shown on page 5, the 4k7 resistor becomes Key-switch number 1 and the 8k2 resistor becomes Key-switch number 2 (the 2k2 still acts as the tamper resistor). If the tamper input is shorted out or cut the panel will still go into system tamper alarm but provided the 2k2 resistor is maintained then shorting or opening the 4k7 or 8k2 resistors will operate the key-switch functions.

KEY-SWITCH AREA ASSIGNMENT

KEY-SWITCH AREA ASSIGNMENT - P111E 1-2E (1 = Key-switch # 1, 2 = Key-switch # 2)

Option 1 - Area "A"
Option 2 - Area "B"

Option 1 **Area "A"** - This option assigns the key-switch to Area A. If a key-switch is assigned to only Area A it can only Arm or Disarm that area.

Option 2 **Area "B"** - This option assigns the key-switch to Area B. If a key-switch is assigned to only Area B it can only Arm or Disarm that area.

KEY-SWITCH ACCESS & OPERATIONAL OPTIONS

KEY-SWITCH ACCESS & OPERATIONAL OPTIONS - P112E 1-2E (1 = Key-switch # 1, 2 = Key-switch # 2)

Option 1 - Key-Switch can Arm
Option 2 - Key-Switch can Arm Stay Mode
Option 3 - Key-Switch can Disarm
Option 4 - Key-Switch can Disarm Stay Mode
Option 5 - Key-Switch has Security Guard Options
Option 6 - Key-Switch will Arm Latchkey Mode
Option 7 - Key-Switch is NO (Normally Open)
Option 8 - Key-Switch is Momentary

Option 1 **Key-Switch can Arm** - This option enables Arming of the assigned Area via the Key-switch.

Option 2 **Key-Switch can Arm Stay Mode** - This option enables Stay Mode Arming of the assigned Area via the Key-switch.

Option 3 **Key-Switch can Disarm** - This option enables Disarming of the assigned Area via the Key-switch.

Option 4 **Key-Switch can Disarm Stay Mode** - This option enables Stay Mode Disarming of the assigned Area via the Key-switch.

Option 5 **Key-Switch has Security Guard Options** - If the key-switch has option 5 on, they can Arm all Areas assigned, but they may only Disarm if the panel is currently Armed and in the alarm state.

Option 6 **Key-Switch will Arm Latchkey Mode** - If the panel is armed by a key-switch with this option on, then the panel will be armed in Latchkey mode. This means that when the alarm is disarmed by a key-switch with this option off, or a code with option 6 at P4E off, then a disarm report will be sent. The option is designed to alert the alarm owner when children have returned home and disarmed the alarm.

Option 7 **Key-Switch is NO (Normally Open)** - The key-switch can be a NO (Normally Open) or a NC (Normally Closed) key-switch. The normal, or rest state, of the key-switch can be programmed at this location. If the key-switch contacts usually rest in the open state and close when the key-switch is operated you should turn on option 7.

Option 8 **Key-Switch is Momentary** - The operation of the key-switch can be momentary or latching. If option 8 is on, the key-switch operation is assumed to be momentary. This means that each time the key-switch is operated then released the area will toggle its current state (ie if armed it will become disarmed or vice versa). If this option is turned off it is assumed that the key-switch is a latching type. This means that when the key-switch is operated and the key removed the contacts remain in the same state. When a latching key-switch is used, turning on the switch will arm the area and turning it off will disarm the area.

Zones

Option 1 - Area "A"
Option 2 - Area "B"

Option 1 **Area "A"** - This option assigns the Zone to Area A. If a Zone is assigned only to Area A it will activate if Area A is armed. If the zone is in both area A & B then it will activate only when both areas are armed.

Option 2 **Area "B"** - This option assigns the Zone to Area B. If a Zone is assigned only to Area B it will activate if Area B is armed. If the zone is in both area A & B then it will activate only when both areas are armed.

ZONE OPTIONS A

ZONE OPTIONS A - P122E 1-16E

Option 1 - Zone is Active
Option 2 - Zone is N/O
Option 3 - Not an Exit Delay Zone
Option 4 - Keypad Zone
Option 5 - Zone is a Radio Zone
Option 6 - Zone is a Stay Mode Zone
Option 7 - Zone can be Manually Bypassed
Option 8 - Zone can be Auto-Bypassed

Option 1 **Zone is Active** - If this option is on the zone is turned on. If it is turned off the zone will not be monitored by the panel. The panel can provide up to 16 zones but is configured by default as an 8 zone panel with this option turned off for zones 9-16.

Option 2 **Zone is N/O** - This option only applies if the zone input is set to type 14 (zone doubling) at location P125E. When configured as type 14 there are three resistors wired in series on the input, a 2k2 tamper resistor, a 4k7 low zone resistor and an 8k2 high zone resistor. At this point, the zone can be set as having a N/C (Normally closed) alarm contact where the EOL resistor is shorted out in the sealed state or it can be set as a N/O (Normally open) alarm contact where the EOL resistor is in circuit in the sealed state. If this option is turned on it assumes that the alarm contact is N/O. A proximity reader input is sealed if the input is open and unsealed if the input is shorted to 0V. If the zone being used is from 1-8 and zone doubling is not being used (eg P125E for the zone is not set to 14) then this function has no effect. If zone doubling is turned on and this option is set for N/O operation (option 2 is turned on) the proximity reader input must be shorted to 0V to seal the zone input.

Option 3 **Not an Exit Delay Zone -** If this option is turned on the zone will not have any exit delay and will cause an instant alarm if triggered during the exit delay time. Also you MUST ensure that if this option is turned on for a zone, that same zone should not have any entry delay (P144E) programmed. If the zone does have an entry delay the zone can activate during the exit time thereby starting an entry delay on the same zone which means the user might not be aware of the pending alarm and leave the premises. If the zone has no entry delay and the zone is triggered during the exit time the alarm will then be instant alerting the user that they deviated off the exit route.

Option 4 **Keypad Zone** - If this option is on the Zone will follow the Input at the corresponding Proximity Reader. If the Proximity Reader is set to Keypad # 1 the input can be either zone 1 or zone 9, eg if P122E1E (zone #1) had option 4 on then the input at reader one will operate zone 1. If P122E9E (zone #9) had option 4 on then the input at reader one will operate zone 9. Proximity reader 1 can operate zones 1 or 9 through to proximity reader 8 can operate zones 8 or 16. If the proximity reader input is left open circuit the zone is sealed. If the input is shorted to 0V the input becomes unsealed.

Option 5 **Zone is a Radio Zone** - If this option is on the panel does not scan the hardwired zone input terminal but instead is looking for a radio zone signal. The correct radio type should be set at location P127E to ensure that the radio zone works correctly.

Option 6 **Zone is a Stay Mode Zone** - If this option is on the zone will be active when Stay Mode is armed. This feature is normally used for arming just part of the alarm at night time.

Option 7 **Zone can be Manually Bypassed** - If this option is on the zone can be Manually Bypassed at the keypad using the <BYPASS> button. A zone must be Bypassed while in the disarmed state. A bypassed zone will also bypass any tampers associated with that zone. Once the area with the bypassed zone has been armed then disarmed, the manual bypass is removed and the zone must be manually bypassed again before arming if required. If a zone is configured as a 24 Hour zone (P123E Options 3,4 & 5), they can also Manually Bypassed but in this case the Bypass must be manually removed to re-instate the zone.

Option 8 **Zone can be Auto-Bypassed** - If this option is on the zone will be Auto-Bypassed if unsealed at the expiry of the exit delay. If a zone is unsealed at the time of arming and remains unsealed when the exit delay expires and this option is on for that zone it will be automatically bypassed by the panel. If

the zone seals after that time it will be re-instated automatically and can then cause an alarm. On disarming of the alarm any auto-Bypasses are removed.

ZONE OPTIONS B

ZONE OPTIONS B - P123E 1-16E

Option 1 - Zone is a Handover Zone
Option 2 - Zone is a Two Trigger Zone
Option 3 - Zone is a 24 Hour Zone
Option 4 - Zone is a 24 Hour Auto-reset Zone
Option 5 - Zone is a 24 Hour Fire Zone
Option 6 - Spare
Option 7 - Zone is a Chime Zone
Option 8 - Zone is a Permanent Chime Zone

Option 1 **Zone is a Handover Zone** - A Handover Zone is one that its entry delay will apply provided a Non-Handover entry zone is triggered first. If no other entry delay zones are triggered before the handover zone the entry delay on that zone does not apply and the alarm will become instant (no entry delay).

Option 2 **Zone is a Two Trigger Zone** - If this option is on the zone will have to trigger twice within the two trigger time (P25E5E) before it will cause an alarm. If the zone does not trigger a second time before the two trigger time expires, the count is reset and it will take another two triggers to cause an alarm on this zone. If more than one zone is set-up as a two trigger zone, then a single trigger from two separate zones within the two trigger time can also cause an alarm. If the zone becomes faulty and stays in alarm once triggered it will also cause an alarm provided it remains in alarm for longer than the two trigger time.

Option 3 **Zone is a 24 Hour Zone** - If this option is on the zone will be constantly monitored regardless of the arm/disarm state of the panel. If the 24 Hour zone also has an entry delay programmed (P144E), this delay will apply. If the 24 Hour zone activates but then resets before the entry delay expires no alarm will be generated. This feature can be useful for monitoring plant type alarms such as freezer alarms. Once the alarm has been generated it must be cleared by entry of a valid User code.

Option 4 **Zone is a 24 Hour Auto-reset Zone** - If this option is on the zone will be constantly monitored regardless of the arm/disarm state of the panel. If the 24 Hour zone also has an entry delay programmed (P144E), this delay will apply. If the 24 Hour zone activates but then resets before the entry delay expires no alarm will be generated. Once an alarm has been generated with a 24 Hour Auto-reset zone, the alarm will be removed automatically once the input reseals.

Option 5 **Zone is a 24 Hour Fire Zone** - If this option is on the zone will be constantly monitored regardless of the arm/disarm state of the panel. If the 24 Hour Fire zone also has an entry delay programmed (P144E), this delay will apply. If the 24 Hour Fire zone activates but then resets before the entry delay expires no alarm will be generated. Once the alarm has been generated it must be cleared by entry of a valid User code. The 24 Hour Fire Zone will also cause an alarm output to pulse the alarm to differentiate a fire alarm from a burglar alarm (ie a fire alarm will switch the output on and off at the pulse timer rate whereas a burglar alarm on the same output will sound continuously).

Option 6 **Spare** -

Option 7 **Zone is a Chime Zone** - If this option is on, the zone will operate Chime mode when disarmed. When the alarm is armed the Chime Mode is disabled for this zone. A Chime zone can sound the keypad buzzer or operate an output to indicate that the zone is unsealed. It is normally used to monitor areas during the daytime.

Option 8 **Zone is a Permanent Chime Zone** - If this option is on, the zone will operate Chime mode when armed or disarmed. When the alarm is armed the zone will continue to only be a Chime Mode Zone and will not cause a burglar alarm. A Chime zone can sound the keypad buzzer or operate an output to indicate that the zone is unsealed.

ZONE OPTIONS C

ZONE OPTIONS C - P124E 1-16E
Option 1 - Can Arm if Zone is not Ready
Option 2 - Will Send Multiple Reports to Dialler
Option 3 - Zone is Monitored for Inactivity

Option 4 - Zone is on Soak Test
Option 5 - Zone will report to Area B Account Number
Option 6 - Zone will Not Report 24 hour Alarms via Dialler
Option 7 - Pulse Output on Kiss-off Following a Zone Alarm
Option 8 - Exit Terminator Zone

Option 1 **Can Arm if Zone is not Ready** - If this option is turned on, plus Options 7 or 8 on or on at P45E (cannot Arm if zones not sealed/Ready), this zone can be unsealed and the panel can still be armed. This option allows the panel to still be armed if a low security zone is unsealed yet still stopping arming if a high security zone is unsealed.

Option 2 **Will Send Multiple Reports to Dialler** - If this option is turned on, a zone will send an alarm report to the monitoring station every time it is activated. If the option is turned off, the zone can only send one alarm report per armed cycle.

Option 3 **Zone is Monitored for Inactivity** - If this option is on the zone will be checked to see that it operates during the disarmed state. If it is not operated within the time set at P163E a "Sensor-watch" alarm will be generated. This feature is designed to detect a faulty zone that is not operating normally or one that has had it's detection area blocked. If a detector has this option turned on and it doesn't operate when disarmed, the timer at location P163E will start to count down. The timer is stopped when the area assigned to the zone is armed and resumes with the saved value when disarmed again. The timer is reset back to the original value every time the zone operates while disarmed.

Option 4 **Zone is a Soak Test Zone** - If a zone is suspected of being faulty and is causing false alarms, you can turn it into a Soak Test Zone and it will still be monitored for alarms when armed but it will not cause the sirens to sound or report to the dialler. The Soak Test zone will still be logged in the event memory however so it is possible to check the activity of the zone, via the memory, and after a suitable period of no alarms it can be re-instated as part of the alarm by removing the Soak Test option.

Option 5 **Zone will report to Area B Account Code** - If a zone is in Areas A & B and it goes into alarm, it will default to reporting on the Area A Account Code (see P62E). By turning this option on when a zone is in both areas it will report to Area B account Code.

Option 6 **Zone will Not Report 24 Hour Alarms via Dialler** - If this option is turned on and the zone is set as a 24 Hour type, when an alarm is generated, the alarm will not be transmitted to the monitoring station via the dialler.

Option 7 **Pulse Output on Kiss-off Following a Zone Alarm** - If this option is turned on, when an alarm is reported to monitoring and is kissed off, any Output with Option 4 ON at P36E will pulse for 2 seconds.

Option 8 **Exit Terminator Zone** - If this option is on, when the zone unseals during the exit delay time and then seals again the panel will cancel any remaining exit delay time and arm in 3 seconds from the time the zone was sealed. The zone can also be left unsealed at the time of arming and will terminate the exit delay 3 seconds after it is sealed. Once armed, the exit terminator zone will cause an alarm if unsealed again (the alarm will be delayed if an entry delay is programmed (P144E), otherwise it will be instant).

ZONE EOL (End-of-Line) OPTIONS

There are 8 hardwired zone inputs on the panel. Each of these inputs can have different EOL (End-of-Line) configurations if desired. The input can be a short circuit wire loop (Type 0), one of 11 different single resistor values (Types 1-11), can provide 8 zones with tamper (Types 12,13), zone doubling to allow for up to 16 zones plus tamper (Type 14), or zone doubling without tamper (Type 15). See chart on page 6 for the resistor combinations and colour codes. **NOTE: If using vibration settings 1-8 (see P126E below) then this location can <u>ONLY</u> be set to type 3.**

ZONE EOL (End-of-Line) OPTIONS - P125E 1-8E

Option 0 - Short Circuit Loop
Option 1 - 1k
Option 2 - 1k5
Option 3 - 2k2
Option 4 - 3k3
Option 5 - 3k9
Option 6 - 4k7
Option 7 - 5k6
Option 8 - 6k8
Option 9 - 10k
Option 10 - 12k
Option 11 - 22k
Option 12 - 2k2 // 4k7
Option 13 - 3k3 // 6k8
Option 14 - 2k2 // 4k7 // 8k2
Option 15 - 4k7 // 8k2

ZONE RESPONSE TIME

There are 8 hardwired zone inputs on the panel. The response time (how quickly the input responds to an input trigger) can be varied for each zone. The first 8 settings are very fast response times normally used when vibration sensors are connected to a zone input. ***Response Settings 1-8 (vibration) can only be applied to zones 1-8 and the zone EOL setting (P125E) must be set to type 3 (2k2)***. Zone doubling is not available when vibration settings are used.
The response settings 9-26 start at about 200 ms for setting 9 through to 1.05 sec for setting 26. If zone doubling is turned on, both zones on an input will have the same response time (eg zones 1 & 9 would have the same time).

ZONE RESPONSE TIME - P126E 1-8E

Response Setting 1 - Highest Vibration setting
Response Setting 2 - Middle Vibration setting
Response Setting 3 - Middle Vibration setting
Response Setting 4 - Middle Vibration setting
Response Setting 5 - Middle Vibration setting
Response Setting 6 - Middle Vibration setting
Response Setting 7 - Middle Vibration setting
Response Setting 8 - Lowest Vibration setting
Response Setting 9 - 200 ms
Response Setting 10 - 250 ms
Response Setting 11 - 300 ms
Response Setting 12 - 350 ms
Response Setting 13 - 400 ms
Response Setting 14 - 450 ms
Response Setting 15 - 500 ms
Response Setting 16 - 550 ms
Response Setting 17 - 600 ms
Response Setting 18 - 650 ms
Response Setting 19 - 700 ms
Response Setting 20 - 750 ms
Response Setting 21 - 800 ms
Response Setting 22 - 850 ms
Response Setting 23 - 900 ms
Response Setting 24 - 950 ms
Response Setting 25 - 1000 ms
Response Setting 26 - 1050 ms

RADIO ZONE DETECTOR TYPE

Any of the 16 zones can be made radio zones. There are multiple types of radio detectors that can be used on the panel. It is important to set the correct radio type for the detector being used so that all of the special functions such as battery low signals, tamper alarms, reed switch open/close signals and supervision signals can all be monitored correctly.

RADIO ZONE DETECTOR TYPE - P127E 1-16E

Radio Type 0 - Generic
Radio Type 1 - Crow Merlin PIR (supervised signal ignored)
Radio Type 2 - Crow Merlin PIR (supervised signal active)
Radio Type 3 - Freelink with checksum (supervised signal active)
Radio Type 4 - Freelink with checksum (Non-supervised)
Radio Type 5 - Crow AE series battery Low
Radio Type 6 - Crow AE series Radio Reed Switch
Radio Type 11 - Ness Radio devices Battery Low
Radio Type 12 - Ness Radio Reed Switch
Radio Type 31 - Visonic K900 Radio PIR
Radio Type 32 - Visonic Powercode (supervised signal ignored)
Radio Type 33 - Visonic Powercode (supervised signal active)
Radio Type 34 - Siemens (supervised signal ignored)
Radio Type 35 - Siemens (supervised signal active)

Type 0 **Generic** - If you wish to use a detector that is not on the above list then set the type a "0" and the panel will still respond to the radio detector every time the learnt code is received.

Type 1 **Crow Merlin PIR (unsupervised)** - If a Crow Merlin radio PIR is used on the panel select Type 1 so the panel correctly recognizes the alarm, tamper & battery low signal from the device. The automatic supervised signal sent every 40 minutes by the PIR is ignored in this mode.

Type 2 **Crow Merlin PIR (supervised)** - If a Crow Merlin radio PIR is used selecting Type 2 will allow the panel to correctly recognize the alarm, tamper & battery low signal from the device. Selecting this option also starts the supervise timer (P25E4E). The supervise timer is constantly being reset while valid supervisory signals are being received from the detector. If no supervise signals are received from the PIR within the supervise timer value a supervised alarm is generated.

Type 3 **Freelink with checksum (supervised signal active)** - If a Crow Freelink radio PIR is used selecting

Type 3 will allow the panel to correctly recognize the alarm, tamper & battery low signal from the device. Selecting this option also starts the supervise timer (P25E4E). The supervise timer is constantly being reset while valid supervisory signals are being received from the detector. If no supervise signals are received from the PIR within the supervise timer value a supervised alarm is generated.

Type 4 **Freelink with checksum (non-supervised) -** If a Crow Freelink radio PIR is used selecting Type 4 will allow the panel to correctly recognize the alarm, tamper & battery low signal from the device. The automatic supervisory signal sent by the PIR is ignored in this mode.

Type 5 **Crow AE Series Battery Low -** If a Crow (AE) radio pendant or PIR is used on the panel selecting Type 5 allows the panel to correctly recognize the battery low and tamper signals from Crow (AE) devices.

Type 6 **Crow AE Series Radio Reed Switch** - If a Crow (AE) radio reed switch is used on the panel selecting Type 6 allows the panel to correctly recognize the open and closed signals from the reed switch so the zone LED can follow the correct state of the reed switch (ie open or closed). It also recognizes the battery low signal from the Crow (AE) device.

Type 11 **Ness Battery Low** - If a Ness radio pendant or PIR is used on the panel selecting Type 11 allows the panel to correctly recognize the battery low and tamper signals from Ness devices.

Type 12 **Ness Radio Reed Switch** - If a Ness radio reed switch is used on the panel selecting Type 12 allows the panel to correctly recognize the battery low and tamper signals from the Ness device. It also recognizes the open and closed signals from the reed switch so the zone LED can follow the correct state of the reed switch (ie open or closed)

Type 31 **Visonic Radio PIR -** If a Visonic K900 radio PIR is used on the panel selecting Type 31 allows the panel to correctly recognize the alarm, tamper & battery low signal from this device.

Type 32 **Visonic Powercode (unsupervised) -** If a Visonic Powercode radio device is used on the panel selecting Type 32 allows the panel to correctly recognize the alarm, tamper and battery low signal from the device. The supervisory signal sent by the device is ignored in this mode.

Type 33 **Visonic Powercode (supervised) -** If the Visonic Powercode range of radio PIR or reed switch are used on the panel selecting Type 33 allows the panel to correctly recognize the alarm, tamper & battery low signals from the devices as well as the open/close signal from the reed switch. Selecting this option also starts the supervise timer (P25E4E). The supervise timer is constantly being reset while valid supervisory signals are being received from the detector. If no supervise signals are received from the PIR within the supervise timer value a supervised alarm is generated.

Type 34 **Siemens (unsupervised) -** If a Siemens radio device is used on the panel selecting Type 34 allows the panel to correctly recognize the alarm, tamper and battery low signal from the device. The supervisory signal sent by the device is ignored in this mode.

Type 35 **Siemens (supervised) -** If the Siemens radio PIR is used on the panel selecting Type 35 enables the same functions as 34 above plus starts the supervise timer (P25E4E). The supervise timer is constantly being reset while valid supervisory signals are being received from the detector. If no supervise signals are received from the PIR within the supervise timer value a supervised alarm is generated.

ARMED ZONE ALARMS to OUTPUT

ARMED ZONE ALARMS to OUTPUT - P128E 1-16E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

If an Area is Armed and a zone assigned to that Area activates, the zone can trigger selected Outputs for local alarm signalling. This location assigns Zones to Outputs for alarms that occur when in the Full Armed State.

STAY MODE ZONE ALARMS to OUTPUT

STAY MODE ZONE ALARMS to OUTPUT - P129E 1-16E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

If an Area has Stay Mode Armed and a zone assigned to that Area activates, the zone can trigger selected Outputs for local alarm signalling. This location assigns Zones to Outputs for alarms that occur when Stay Mode is Armed.

24 HOUR ZONE ALARMS to OUTPUT

24 HOUR ZONE ALARMS to OUTPUT - P130E 1-16E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

If a zone is programmed as a 24 Hour type and it activates, the zone can trigger selected Outputs for local alarm signalling. If the zone is a standard 24 hour type (P123E3E) the output will turn for the full reset time, if it is an Auto-reset type (P123E4E) the output will either turn off when the reset time expires or if the input clears and if it is a Fire type (P123E5E) the output will pulse at a rate equal to the pulse time for that output.

CHIME ZONE ALARMS to OUTPUT

CHIME ZONE ALARMS to OUTPUT - P131E 1-16E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

If a zone is programmed as a Chime zone (P123E7E) and it activates, the zone can trigger selected Outputs for local alarm signalling. The output will operate for the Chime to Output time at location P41E. The zone must clear before the output can be activated again.

ZONE TAMPER ALARMS to OUTPUT

ZONE TAMPER ALARMS to OUTPUT - P132E 1-16E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

If a hardwired zone is programmed to allow tamper monitoring (P125E types 12,13 & 14), or the zone is a radio detector with tamper, the zone tamper can trigger selected Outputs for local alarm signalling.

ARMED ZONE ALARM BEEPS TO KEYPAD

ARMED ZONE ALARM BEEPS TO KEYPAD - P134E 1-16E

Option 1 - Keypad 1 Option 5 - Keypad 5
Option 2 - Keypad 2 Option 6 - Keypad 6
Option 3 - Keypad 3 Option 7 - Keypad 7
Option 4 - Keypad 4 Option 8 - Keypad 8

If an Area is Armed and a zone assigned to that Area activates, the zone can sound the buzzer at selected keypads for local alarm signalling. This location assigns zone alarm beep to a keypad for alarms that occur when in the Full Armed State.

STAY MODE ZONE ALARM BEEPS TO KEYPAD

STAY MODE ZONE ALARM BEEPS TO KEYPAD - P135E 1-16E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

If an Area is Stay Mode Armed and a zone assigned to that Area activates, the zone can sound the buzzer at selected keypads for local alarm signalling. This location assigns zone alarm beep to a keypad for alarms that occur when in Stay Mode is Armed.

24 HOUR ZONE ALARM BEEPS TO KEYPAD

24 HOUR ZONE ALARM BEEPS TO KEYPAD - P136E 1-16E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

If a zone is programmed as a 24 Hour type and it activates, the zone can sound the buzzer at selected keypads for local alarm signalling. If the zone is a standard 24 hour type (P123E3E) or Fire type (P1235E) the keypad buzzer will sound until reset by a User but if it is an Auto-reset type (P123E4E) the keypad buzzer will reset when the input clears.

CHIME ZONE ALARM BEEPS TO KEYPAD

CHIME ZONE ALARM BEEPS TO KEYPAD - P137E 1-16E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

If a zone is programmed as a Chime zone and it activates, the zone can sound the buzzer at selected keypads for local alarm signalling. The duration of the Chime beep is programmed at location P94E. The Chime function can also be locally disabled at each keypad individually if not required (see Page 32 for details).

ZONE TAMPER ALARM BEEPS TO KEYPAD

ZONE TAMPER ALARM BEEPS TO KEYPAD - P139E 1-16E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

If a hardwired zone is programmed to allow tamper monitoring (P125E types 12,13 & 14), or the zone is a radio detector with tamper, the zone tamper can beep the keypad buzzer at individual keypads.

RADIO SUPERVISE FAIL BEEPS TO KEYPAD

RADIO SUPERVISE FAIL BEEPS TO KEYPAD - P140E 1-16E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

If a zone is programmed as a radio zone and that type is actively monitoring the supervision signal, a supervise signal failure from the detector alarm can sound the buzzer at selected Keypads for local alarm signalling.

ZONE INACTIVITY ALARM BEEPS TO KEYPAD

ZONE INACTIVITY ALARM BEEPS TO KEYPAD - P141E 1-16E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

If the zone is programmed for inactivity monitoring (P124E3E) and it is not operated within the time set at P163E a "Sensor-watch" alarm will be generated. A "Sensor-watch" failure from the detector can sound the buzzer at selected Keypads for local alarm signalling.

ARMED ZONE ENTRY DELAY BEEPS TO KEYPAD

ARMED ZONE ENTRY DELAY BEEPS TO KEYPAD - P142E 1-16E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

If the alarm is Armed and a delay zone triggers the entry delay it can also beep the keypad buzzer to warn that the entry delay is counting down and the alarm should be turned off.

STAY MODE ENTRY DELAY BEEPS TO KEYPAD

STAY MODE ENTRY DELAY BEEPS TO KEYPAD - P143E 1-16E

Option 1 - Keypad 1
Option 2 - Keypad 2
Option 3 - Keypad 3
Option 4 - Keypad 4
Option 5 - Keypad 5
Option 6 - Keypad 6
Option 7 - Keypad 7
Option 8 - Keypad 8

If Stay Mode is Armed and a Stay Mode delay zone triggers the entry delay it can also beep the keypad buzzer to warn that the entry delay is counting down and the alarm should be turned off.

ARMED ZONE ENTRY DELAY TIME

ARMED ZONE ENTRY DELAY TIME - P144E 1-16E (Value 0-9999 Seconds)

Each Zone has it's own Entry Delay time when in the Full Armed State. The delay can be programmed from 0-9999 seconds in one second increments. If the entry delay is set to "0" the zone will be an instant zone.

STAY MODE ZONE ENTRY DELAY TIME

STAY MODE ZONE ENTRY DELAY TIME - P145E 1-16E (Value 0-9999 Seconds)

Each Zone has it's own Entry Delay time when in Stay Mode. The delay can be programmed from 0-9999 seconds in one second increments. If the entry delay is set to "0" the zone will be an instant zone.

ZONE RE-TRIGGER COUNT

ZONE RE-TRIGGER COUNT - P146E 1-15E (Value 0-15 Triggers)

Each Zone has it's own alarm Re-trigger Count. A value of 0 programmed at this location results in unlimited alarms for that zone during an armed period but a count of 1-15 will shut down the zone once the programmed count has been reached. Disarming the alarm will reset this count.

ZONE ALARM CONTACT ID REPORT CODE

ZONE ALARM CONTACT ID REPORT CODE - P157E 1-16E (3 digit event code)

Normally a zone alarm would default to reporting a standard "Burglar Alarm" code of "130" when the zone activates. If the zone is not being used as a burglar alarm and you need to identify the correct type of alarm event you can change the event code at this location (eg if zone 5 was a fire sensor you could program a value of "110" at P157E5E).

ZONE NEAR ALARM CONTACT ID REPORT CODE

ZONE NEAR ALARM CONTACT ID REPORT CODE - P158E 1-16E (3 digit event code)
If the Near & Confirmed zone alarm reporting option was active the default report code for a "Near Alarm" is "138" when the zone activates for the first time. There should be no reason to change this code but if some special application was to be used it can be changed at this location.

ZONE CONFIRMED ALARM CONTACT ID REPORT CODE

ZONE CONFIRMED ALARM CONTACT ID REPORT CODE - P159E 1-16E (3 digit event code)

If the Near & Confirmed zone alarm reporting option was active the default report code for a "Confirmed Alarm" is "139" when a second zone activates within 45 minutes of the near alarm. There should be no reason to change this code but if some special application was to be used it can be changed at this location.

ZONE ALARM VOICE MESSAGE NUMBER

ZONE ALARM VOICE MESSAGE NUMBER - P160E 1-16E (Value 0-99)

If the Optional Voice Board is fitted and the alarms are to be reported in Voice Format, each zone can be assigned a voice message to report the alarm type. If this location is set to "0" the zone will not report via the dialler. If Option 1 at P46E is turned on (use near and confirmed alarm reporting) the panel will not send an alarm in this format.

ARMED ENTRY DELAY to OUTPUT

ARMED ENTRY DELAY to OUTPUT - P161E 1-16E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

If the alarm is Armed and a delay zone triggers the entry delay it can also beep an Output to warn that the entry delay is counting down and the alarm should be turned off.

STAY MODE ENTRY DELAY to OUTPUT

STAY MODE ENTRY DELAY to OUTPUT - P162E 1-16E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

If Stay Mode is Armed and a delay zone triggers the entry delay it can also beep an Output to warn that the entry delay is counting down and the alarm should be turned off.

SENSOR-WATCH TIME

SENSOR-WATCH TIME - P163E 1-16E (Value 0-9999 Minutes)

If the zone is programmed as a "Sensor-Watch" zone (P124E3E) and it is not operated within the time set at this location a "Sensor-watch" alarm will be generated. If a detector has this option turned on and it doesn't operate when disarmed, this timer will start to count down for the zone/s concerned. The timer is stopped when the area assigned to the zone/s is armed and resumes with the saved value when disarmed again. The timer is reset back to the original value every time the zone operates while disarmed.

LEARN RADIO ZONE CODES

LEARN RADIO ZONE CODES - P164E 1-16E

A RADIO Zone must be enrolled into the panel before it can be used.

To learn a Radio Zone you must first have a compatible receiver connected to the panel keypad buss. With the receiver connected and the panel in program mode, entering P164E then the zone number you wish to enrol, eg 5E for zone 5, the keypad will start to beep to indicate that learn mode has been started and the LED on the receiver will flash. Now operate the detector you wish to learn into Zone 5 slot. Once the transmitted code has been received by the panel and saved, the keypad will stop beeping and the LED on the receiver will stop flashing.
When learning a new radio zone the panel checks all possible locations (including pendants) before saving the new code to ensure that the code has not already been loaded into another slot. If the code already exists, the keypad will indicate which slot the code is already installed at. A number from 1-16 indicates a zone slot and a number from 21-100 indicates a user slot.

DELETE a RADIO ZONE CODE

DELETE a RADIO ZONE CODE - P165E 1-16E

If you wish to delete a single Radio Zone, pressing P165E then the Zone number while in Program Mode will delete the stored code against that Zone, eg P165E 5E will remove the code stored for Zone 5.

FIND a ZONE LOCATION

FIND a RADIO ZONE LOCATION - P166E 0E

If you have a Radio detector loaded into the panel but are unsure which location (Zone #), pressing P166E then 0E while in Program Mode on an LED Keypad will start "Find" Mode. There is no need to press 0E when using an LCD keypad because the keypad will give you written prompts after entering P166E. The keypad will start to beep to indicate that "Find" mode has been started and the LED on the Receiver will flash. Now operate the Radio Detector you wish to find. If the Radio Detector is in memory the keypad will display the number (1-16 indicates a zone, and 21-100 indicates a user). The keypad will stop beeping and the LED on the Receiver will stop flashing.

ZONE NEAR ALARM to OUTPUT

ZONE NEAR ALARM to OUTPUT - P167E 1-16E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

If zones are programmed for near and confirmed alarms (P64E option 1 on), it is also possible to get an indication of a Near Alarm from any of the 8 Outputs using this program location. A Near Alarm is the first alarm during an armed period.

ZONE CONFIRMED ALARM to OUTPUTS

ZONE COMFIRMED ALARM to OUTPUT - P168E 1-16E

Option 1 - Output 1 Option 5 - Output 5
Option 2 - Output 2 Option 6 - Output 6
Option 3 - Output 3 Option 7 - Output 7
Option 4 - Output 4 Option 8 - Output 8

If zones are programmed for near and confirmed alarms (P64E option 1 on), it is also possible to get an indication of a Confirmed Alarm from any of the 8 Outputs using this program location. A Confirmed Alarm is the second alarm from a different zone to the one that caused the Near Alarm and must happen within 45 minutes of the near alarm.

Time Zones

HOLIDAYS

HOLIDAYS - P170E 1-8E (DDMMYY)

It is possible to pre-program up to 8 holidays. Holidays can override the time-zone function on the programmed day. For example, if an output was automatically controlled by a time-zone, the pre-programmed holidays can stop the output from turning on or off on a holiday. A holiday consists of a single day programmed by Date/Month/Year (DDMMYY). The holiday begins at the start of the day (00:00:00) and finishes immediately before midnight (23:59:59) on the programmed date. Holidays can be programmed in any order (although for simplicity it is recommended that they are programmed in chronological order) and the panel automatically removes them once the day ends. If you wish to manually remove a programmed holiday you must program in 000000 at the holiday location. If the holiday date you are attempting to enter is older than the current date the panel will not save the data eg if the current date was 111204 (11th of December 2004) and you tried to enter in 101204 (10th of December 2004) the panel will not save the programmed holiday as the day has already elapsed.

TIME ZONE DAYS

TIMEZONE DAYS - P171E 1-8E

Option 1 - Sunday
Option 2 - Monday
Option 3 - Tuesday
Option 4 - Wednesday
Option 5 - Thursday
Option 6 - Friday
Option 7 - Saturday
Option 8 - Invert

The Time-zone days are the days that the time-zone will be active. You can select any combination of the days, eg days 2,3,4,5,6 for Monday to Friday or 167 for Saturday & Sunday, etc. The invert function selects all times outside those selected. There are 8 Time-zones that can be programmed.

TIME ZONE START TIME

TIMEZONE START TIME - P172E 1-8E (HHMM)

The Time-zone start time is when the time-zone begins. It would normally be set to the beginning of the day, eg if you were automatically arming and disarming an area with a time-zone and you wanted it to disarm when the time-zone started you would set the start time to about 0830. The start time is programmed in 24 hour format (eg 0000-2359).
If you are setting up the time-zone during the active period (eg if the time-zone goes from 0830-1700 and the current time is 1200) you will have to wait until the next minute expires before the panel will update the time-zone status. You can see if the time-zone is active at location P200E4E.

TIME ZONE END TIME

TIMEZONE END TIME - P173E 1-8E (HHMM)

The Time-zone end time is when the time-zone finishes. It would normally be set to the end of the day, eg if you were automatically arming and disarming an area with a time-zone and you wanted it to arm when the time-zone ended you would set the end time to about 1700. The Time-zone end is active at the end of the programmed minute eg if the time-zone end time was set to 1700, the actual time that the time-zone operates will be at 17:01. The end time is programmed in 24 hour format (eg 0000-2359)

TIME ZONE OPTIONS

TIMEZONE OPTIONS - P174E 1-8E

1 = Ignore Holidays
2-8 = Spare

If option 1 is turned on for a Time-zone, that time-zone will not be disabled when a holiday occurs. Normally when a holiday occurs all Time-zones will be disabled but if this option is turned on the Time-zone will not be affected when a holiday is active.

Dialler

DIALLER OPTIONS

DIALLER OPTIONS - P175E 1E
Option 1 - Dialler is Enabled
Option 2 - Fax Defeat
Option 3 - Disable Telephone Line Monitoring
Option 4 - Pulse Dialling (NOTE: For DTMF 4 & 5 must be OFF)
Option 5 - Reverse Pulse Dialling (NOTE: For DTMF 4 & 5 must be OFF)
Option 6 - Long DTMF Dialling Digits
Option 7 - Auto-detect Modem
Option 8 - Force V21 Mode

Option 1 **Dialler is Enabled** - If this option is turned off the dialler will be disabled. The option must be on to allow the dialler to make calls.

Option 2 **Fax Defeat -** The panel can automatically answer an in-coming call in two ways. The first is to set the auto-answer ring count to a convenient number (P175E4E) and let the phone ring until this number is reached at which time the panel will answer the call. The second method is to use fax defeat which entails calling the panel and letting it ring no more than 3 times, hanging up, then ringing back within 45 seconds. The panel will now answer the call on the first ring. There is also a manual answer function described on page 36.

Option 3 **Disable Telephone line Monitoring -** If the panel is connected to a poor telephone line and the line failure alarm is appearing regularly, by turning this option on the panel will not do the line test.

Option 4 **Pulse Dial -** If this option is Off the panel will dial in DTMF format, if On then the panel will dial using Pulse Dialling format

Option 5 **Reverse Pulse Dial -** If this option is On, and option 4 is On, then the panel will dial using Reverse Pulse Dialling format (eg the number 9 = 1 pulse). If this option is Off and Option 4 is On, the panel will dial in normal Pulse format (eg the number 9 = 9 pulses).

Option 6 **Long DTMF Dialling Digits -** If this option is Off, the panel will dial using normal dialling (75ms on & 75ma off). If it is On, the panel will dial using the long tones (100ms on & 100ms off).

Option 7 **Auto-detect Modem** - If this option is on the panel will answer an in-coming call with the V21 acknowledge tone. If the modem does not respond within 5 seconds the panel will then generate the acknowledge tones for BELL103 format. It will repeat this cycle twice and then hang-up if no communication with a modem is established.

Option 8 **Force V21 Mode** - The dial up panel to PC link can be established using either Bell 103 or V21. If the auto-detect function at option 7 does not result in the best format for your modem then you can force the panel to only communicate in one format. If the LED is off the format is BELL103, LED on means V21.

DIALLER OPTIONS 2

DIALLER OPTIONS 2 - P175E 2E
Option 1 - Step to next Number
Option 2 - Upload/download uses Call-back Number

Option 3 - Upload/download only if Disarmed
Option 4 - Send Test Calls Only if Armed
Option 5 - Test Time Period is in days
Option 6 - Hold line open following Domestic/Voice report for DTMF control
Option 7 - First to Open Last to Close Reporting
Option 8 - Answer After 1 ring for Two Way Voice Call-back Mode

Option 1 **Step to next Number** - If more than one telephone number is programmed, this option will force the dialler to step through each number after a call. If this option is off the dialler will make all calls to the first number before moving on to the next number.

Option 2 **Upload/download uses Call-back Number** - A Telephone number can be programmed as a Call-back number. If this option is turned on, and a PC contacts the panel a direct connection cannot be made with the PC. The panel will hang-up the call and dial the PC back on the Call-back number. The PC user can only select the "Call-back" option to make a connection with the panel if this option is turned on. For some modems you might have to program the reporting format for the call-back number to be type "0" otherwise the panel may not connect with the modem during a call-back request.

Option 3 **Upload/download only if Disarmed** - If this option is turned on, and a PC attempts to contact the panel while the alarm is Armed a direct connection cannot be made as the panel will not answer the call. If the panel is Disarmed a connection can be established.

Option 4 **Send Test Calls Only if Armed** - If this option is On the panel will only send a daily test call if it is Armed. This option assumes that the normal arm/disarm signals sent on a daily basis can serve as a test and that the connection only needs to be verified daily if the panel is left in the armed state for periods longer than 24 hours.

Option 5 **Test Time Period is in days** - If this option is turned off the test time period (P175E5E) will be set in hours. If this option is turned on the test time period will be in days.

Option 6 **Hold line open following Domestic/Voice report for DTMF control** - If this option is On the dialler will keep the telephone line open after being kissed-off following a Domestic or Voice alarm call so that the person at the phone can then use their DTMF codes to arm/disarm the system or turn on the optional microphone if required.

Option 7 **First to Open Last to Close Reporting** - If this option is on and the alarm is split into two Areas, then the "Arm" report to the monitoring station will only be sent when both areas are armed and it will be a single report on Area A account code (last to close). On Disarming of the alarm the disarm report will be sent when either Area is disarmed (first to open). Only one disarm report will be sent using the Area A account code. If zones in both areas are bypassed, the bypass report for all zones will only be sent when both areas are armed (last to close) but the Bypass restore reports will be sent only when the Area associated with the zone is disarmed. In this way if an area remains armed and it's associated bypassed zone/s are still bypassed the monitoring station knows that the bypasses have not been removed yet.

Option 8 **Answer After 1 ring for Two Way Voice Call-back Mode** - If this option is turned ON and a full duplex voice board is fitted, the panel will answer an in-coming call after 1 ring and automatically enter full duplex two way voice mode. For full duplex voice mode to be active for call-back, option 5 at P183E must be turned OFF. See also the instructions on Page 118

AUTO-ANSWER RING COUNT

AUTO-ANSWER RING COUNT - P175E 3E (Value 0-99)

If the dialler is set to answer an in-coming call for remote control or upload/download the number of rings before answering the call can be set at this location. There is also a manual answer function described on page 36.

TEST CALL START TIME

TEST CALL START TIME - P175E 4E (Value 0000-2359)

If the dialler is set to send Automatic Test Calls, the start time for the first call is set at this location. This allows the test call to be linked to a quiet period where the line would not normally be used (eg 2300)

TEST CALL TIME PERIOD

TEST CALL TIME PERIOD - P175E 5E (Value 0-255 Hours)

When reporting in Contact ID format the panel can send regular test calls to the monitoring company to check the integrity of the panel and the line. The regularity of the test calls is set at this location. It would normally be set to a value of 24 so that a test call is sent one a day. The start time for the first test should also be set at location P175E5E.

KEYPAD LISTEN-IN OPTIONS

KEYPAD LISTEN-IN OPTIONS - P175E 6E

Option 1 - Listen-in Enabled when dialling only and in Disarmed State
Option 2 - Listen-in Enabled when dialling only and in Armed State
Option 3 - Listen-in Enabled when dialling only and in Monitor Mode
Option 4 - Listen-in Enabled through the entire call only in Disarmed state
Option 5 - Listen-in Enabled through the entire call only in Armed State
Option 6 - Listen-in Enabled through the entire call only in Monitor Mode
Option 7 - Listen-in Enabled when the panel answers a call
Option 8 - Listen-in on at All Times

The panel provides the facilities to use the buzzer in the keypad as a speaker to listen to the call being made by the dialler. To use this feature a 5th wire must be connected between the panel and a keypad using the listen-in terminals. The options above allow many combinations of the listen-in to be used or it can be disabled by selecting no options.

OUTPUT # 1 LISTEN-IN OPTIONS

OUTPUT # 1 LISTEN-IN OPTIONS - P175E 7E

Option 1 - Listen-in Enabled when dialling only and in Disarmed State
Option 2 - Listen-in Enabled when dialling only and in Armed State
Option 3 - Listen-in Enabled when dialling only and in Monitor Mode
Option 4 - Listen-in Enabled through the entire call only in Disarmed state
Option 5 - Listen-in Enabled through the entire call only in Armed State
Option 6 - Listen-in Enabled through the entire call only in Monitor Mode
Option 7 - Listen-in Enabled when the panel answers a call
Option 8 - Listen-in on at All Times

The panel provides the facilities to use a speaker connected to Output # 1 to listen to the call being made by the dialler. For this to happen the device connected to output # 1 must be an 8Ω horn speaker. The options above allow many combinations of the listen-in to be used or it can be disabled by selecting no options.

DIALLING PRE-FIX NUMBER

DIALLING PRE-FIX NUMBER - P175E 8E (Value 1-16 digits)

The panel can be programmed with a Pre-fix telephone number. The Pre-fix number can be up 16 digits long. The Pre-fix number can be dialled before any of the 8 Telephone numbers if required (P183E Option 7).

"PANIC" ALARM CONTACT ID REPORT CODE

"PANIC" ALARM CONTACT ID REPORT CODE - P175E 9E (3 digit event code)

Normally a keypad initiated Panic alarm would default to reporting a standard "Panic Alarm" code of "120". If the panic alarm is being used for some other purpose and you need to identify the correct type of alarm event you can change the event code at this location.

"FIRE" ALARM CONTACT ID REPORT CODE

"FIRE" ALARM CONTACT ID REPORT CODE - P175E 10E (3 digit event code)

Normally a keypad initiated Fire alarm would default to reporting a standard "Fire Alarm" code of "110". If the fire alarm is being used for some other purpose and you need to identify the correct type of alarm event you can change the event code at this location.

"MEDICAL" ALARM CONTACT ID REPORT CODE

"MEDICAL" ALARM CONTACT ID REPORT CODE - P175E 11E (3 digit event code)
Normally a keypad initiated Medical alarm would default to reporting a standard "Medical Alarm" code of "100". If the medical alarm is being used for some other purpose and you need to identify the correct type of alarm event you can change the event code at this location.

OUTPUT DTMF CONTROL CODE NUMBER

OUTPUT DTMF CONTROL CODE NUMBER - P175E 12E (Value 1-4 digit code 0-9999)
The panel can be configured to allow remote operation of the Outputs via a remote telephone. The code programmed at this address is the DTMF code that must be used when performing this function. When dialling the panel and it has answered the call, after waiting for the panel modem tones to stop you can enter in the 4 digit DTMF code plus the Output number you wish to control, eg <1> for Output # 1, and the current status will be given of the Output associated with the code entered. After that, if you press the "*" button on the telephone the status of the output will toggle eg if is was previously On it will change to Off or vice versa. When finished you simply hang-up and 15 seconds later the panel will release the line.

MICROPHONE ON/OFF DTMF CODE NUMBER

MICROPHONE ON/OFF DTMF CODE NUMBER - P175E 13E (Value 1-4 digit code 0-9999)

The panel can be configured to allow remote listen-in via an on-site microphone. The Voice Board must be fitted for the microphone feature to be available The code programmed at this address is the DTMF code that must be used when turning the microphone On or Off. When dialling the panel and it has answered the call, after waiting for the panel modem tones to stop you can enter in the 4 digit DTMF code plus the <*> button on the telephone. This will turn the Microphone On. By Pressing the <*> button again the microphone will be turned Off. When finished you simply hang-up and 15 seconds later the panel will release the line.

DIALLER ACKNOWLEDGE DTMF CODE NUMBER

DIALLER ACKNOWLEDGE DTMF CODE NUMBER - P175E 14E (Value 1-4 digit code 0-9999)

If the panel is set to report in Domestic or Voice reporting formats, you can simply kiss-off (acknowledge) the alarm by pressing the <#> button on the remote telephone. Alternatively if you require a more secure kiss-off method to ensure that the alarm is only kissed off by the correct person you can program a 1-4 digit code at this location. If a code is programmed at this location you must enter in the code followed by the <#> button to kiss-off the alarm event. This code is also used in conjunction with the two way voice function. See also the instructions on Page 118

FORCE TEST CALL DTMF CODE NUMBER

FORCE TEST CALL DTMF CODE NUMBER - P175E 15E (Value 1-4 digit code 0-9999)

If a user wishes to remotely force a test call from the panel to a monitoring company using the Contact ID test message, you can dial the panel and when it answers enter the code programmed at this location on the telephone.
If a voice board is fitted you can assign a voice message (see P176E11E below) to indicate that the function was started. If no voice board is fitted but there is a DTMF IC fitted to the panel you will get 3 short beeps after the code

is entered to indicate the function was started. Once you hang-up the phone the panel will then make a call to the monitoring company and send a manual test call message. If no code is programmed at this location (ie "0") the function will be disabled. The code can be a 1-4 digit number as required.
NOTE: If using this remote test code and any of the other remote DTMF codes at locations (P63E, P175E12E, P175E13E & P175E14E) you should make this code a 4 digit code to ensure the panel knows what function is being operated. If no other DTMF remote functions are being used this code can be a single digit.
It is also possible to force a locally generated test call from the panel keypad by pressing and holding the <CONTROL> button then <0> within two seconds of pressing control. This will force a test call to the monitoring company.

MISCELLANEOUS VOICE BOARD REPORT MESSAGES

KEYPAD or RADIO PANIC ALARM VOICE MESSAGE NUMBER -	P176E 1E (Value 0-99)
FIRE ALARM VOICE MESSAGE NUMBER -	P176E 2E (Value 0-99)
MEDICAL ALARM VOICE MESSAGE NUMBER -	P176E 3E (Value 0-99)
MAINS FAIL ALARM VOICE MESSAGE NUMBER -	P176E 4E (Value 0-99)
MAINS RESTORE VOICE MESSAGE NUMBER -	P176E 5E (Value 0-99)
BATTERY LOW ALARM VOICE MESSAGE NUMBER -	P176E 6E (Value 0-99)
BATTERY RESTORE VOICE MESSAGE NUMBER -	P176E 7E (Value 0-99)
TAMPER ALARMS VOICE MESSAGE NUMBER -	P176E 8E (Value 0-99)
DURESS ALARM VOICE MESSAGE NUMBER -	P176E 9E (Value 0-99)
LATCHKEY DISARM VOICE MESSAGE NUMBER -	P176E 10E (Value 0-99)
MANUAL TEST CALL INITIATED VOICE MESSAGE NUMBER -	P176E 11E (Value 0-99)

If a Voice Board is connected to the panel it is possible to send various alarm messages to identify the type of alarm If the above locations are programmed with a "0" then the event will not report in Voice or Domestic format.

Telephone Numbers

TELEPHONE NUMBERS

TELEPHONE NUMBERS - P181E 1-8E (Value 1-16 digit number)

The Telephone Numbers can be up to 16 digits long. They can also include some special functions or characters as per the chart below.

LED KEYPAD BUTTON	LED KEYPAD INDICATION	LCD KEYPAD BUTTON	LCD KEYPAD CID & 4+2 INDICATIONS	LCD KEYPAD TELEPHONE INDICATIONS	CID & 4+2 SPECIAL CHARACTERS	TELEPHONE NUMBER SPECIAL FUNCTION
"BYPASS"	-	CONTROL & 0	-	DELETE #	DELETE #	DELETE #
"PANIC"	11	CONTROL & 2	B	#	"B"	"#"
"MEMORY"	12	CONTROL & 3	C	*	"C"	"*"
"CONTROL"	13	CONTROL & 4	D	-	"D"	"2.5 sec Pause"
"ARM"	14	CONTROL & 5	E	w	"E"	"Wait for 2nd Dial-tone"
"STAY"	15	CONTROL & 6	F	=	"F"	"5 sec Pause"

TELEPHONE NUMBER REPORT FORMATS

TELEPHONE NUMBER REPORT FORMATS - P182E 1-8E
Option 0 - No reporting
Option 1 - Contact ID
Option 2 - Domestic Dial
Option 3 - Pager

Telephone Numbers Continued

Option 4 - Voice Dialler
Option 6 - 4 + 2 (Pulsed) 10 pps (1400 hz Handshake, 1900 hz transmit Tone)
Option 6 - 4 + 2 (Pulsed) 10 pps (2300 hz Handshake, 1800 hz transmit Tone)
Option 7 - 4 + 2 (Pulsed) 20 pps (1400 hz Handshake, 1900 hz transmit Tone)
Option 8 - 4 + 2 (Pulsed) 20 pps (2300 hz Handshake, 1800 hz transmit Tone)
Option 9 - 4 + 2 DTMF (with Checksum)
Option 10 - SIA
Option 11 - SIA Slow

Option 0 **No Reporting** - If the option is programmed as "0", the panel will not report in any format for the selected telephone number. If the number is to be used as a Call-back number this option should be programmed as a "0".

Option 1 **Contact ID** - If this option is set for the telephone number, the panel will send a Contact ID message to a Monitoring Station.

Option 2 **Domestic Dial** - If this option is set for the telephone number, the panel is expecting to dial a residential telephone number when an alarm occurs. The message sent consists of a siren tone over the phone to alert the person called that an alarm is in progress. The alarm can be cancelled by the person called by pressing the "#" button on a touch tone phone during the quiet period. If there is a code programmed at location P175E14E the alarm must be kissed off by entering in the code then "#". If the alarm is cancelled by a valid user code the dialler will stop any further calls. If Option 1 at P46E is turned on (use near and confirmed alarm reporting) the panel will not send an alarm in this format.

Option 3 **Pager** - Report alarm events using "Pager" format. This format utilizes Telecom's 026 pager network or other public subscriber networks, etc, to send numeric messages to a compatible pager. The panel sends a 12 digit numeric number to the pager consisting of the account code (P62E) the 3 digit CID event code for the alarm event and a 3 digit zone number to identify the zone in alarm.

Option 4 **Voice Dialler** - If the optional voice board is fitted to the panel then selecting this option for the telephone number will allow preset voice messages to be sent via the telephone following an alarm. The kiss off method to acknowledge the alarm message is the same as the Domestic Format. If Option 1 at P46E is turned on (use near and confirmed alarm reporting) the panel will not send an alarm in this format.

Option 5 **4 + 2 (10 pps)** - This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 1400 hz and the transmit tone from the panel will be at 1900hz at 10 pulses per second.

Option 6 **4 + 2 (10 pps)** - This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 2300 hz and the transmit tone from the panel will be at 1800hz at 10 pulses per second.

Option 7 **4 + 2 (20 pps)** - This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 1400 hz and the transmit tone from the panel will be at 1900hz at 20 pulses per second.

Option 8 **4 + 2 (20 pps)** - This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 2300 hz and the transmit tone from the panel will be at 1800hz at 20 pulses per second

Option 9 **4 + 2 (DTMF)** - This option transmits a 4 digit account code followed by a 2 digit event code plus a checksum using DTMF signals to a central monitoring station. The handshake tone from the monitoring station must be 1400 hz /2300 hz .

Option 10 **SIA** - This option selects FSK SIA format. If using SIA format, ensure that the monitoring receiver does not generate a 4+2 2300hz acknowledge tone before the SIA acknowledge tone because the 4+2 tone accuracy is +/– 5% which can make it the same as the SIA acknowledge tone. Also when reporting alarms on different areas (1 =Area A and 2 = Area B) the panel will send the area number associated with each event (ri01 or ri02) but it will also send different account codes if programmed that way. To avoid using two account numbers when reporting alarms on different areas you should program both account codes (P62E 1 & 2) to be the same number and identifying the two areas by the area number sent.

Option 11 **SIA Slow** - This option selects FSK SIA Slow format. This format is similar to option 10 except every signal will be sent separately with a kissoff after each signal whereas option 10 will send all signals in one continuous burst with one kissoff at the end. In SIA slow the area number is not sent (see option

10 above) so each account code must be different when identifying alarms for both areas.

TELEPHONE NUMBER REPORT OPTIONS

TELEPHONE NUMBER REPORT OPTIONS - P183E 1-8E
Option 1 - Stop Dialling if Kissed Off
Option 2 - Monitor Call Progress
Option 3 - Blind Dial
Option 4 - Use Group Numbers for Contact ID Reporting
Option 5 - Stay On-line after Alarm report for two way voice
Option 6 - Auto Kiss-off for Voice/Domestic Reporting
Option 7 - Use the Dial Pre-fix Number
Option 8 - Used as the Call-back Number

Option 1 **Stop if Kissed Off -** If this option is turned on for the telephone number, the dialler will stop sending the alarm if the signal is kissed off and will not proceed with any other telephone numbers for that event. If not kissed off the dialler will start dialling any other programmed numbers. If the event is not kissed off from any of the telephone numbers and the maximum re-tries limit is reached then the event is marked as unsent and will be added to the next event that causes the dialler to report. If this option is off, the dialler will send the event for the maximum re-tries count or until kissed off but it will then proceed to report the same event to any other telephone numbers programmed.

Option 2 **Monitor Call Progress -** Monitor call progress means that the dialler monitors the status of the dialling tones to determine whether the call is valid or not. If the call is not valid, eg engaged, the panel will know and hang up the call and try again.

Option 3 **Blind Dial** - When the dialler makes a call it looks for dial tone before making the call. If no dial tone is detected the panel hangs up and attempts another call. The panel will do this 3 times and if dial tone is still not detected it will make the call anyway. If blind dial is on, the panel skips the dial tone detection and dials 4 seconds after looping the line (used where non standard or low level dial tone exists).

Option 4 **Use Group Numbers for Contact ID Reporting -** When sending an alarm using Contact ID, the panel can send separate account codes to report the two areas or, use one account code (P62E1E Area A) and use the group number to identify the two areas. Turning this option on sends one account with group numbers.

Option 5 **Stay On-line after Alarm report for two way voice -** If this option is turned ON and a full duplex two way voice board is fitted, the panel will send a command to the monitoring company in CID or SIA formats to tell the receiver to stay on-line so the operator can listen or talk to the site (full duplex two way voice). See also the instructions on Page 118.

Option 6 **Auto Kiss-off for Voice/Domestic reporting -** If Voice or Domestic Report Format is used and this option is turned On, the alarm will be reported and it can be kissed off by entering the kiss-off code (P175E14E) at the telephone but if not kissed off the event is automatically removed from the dialler buffer once the maximum dial re-tries has been reached for the telephone number. A new event must then be created before the dialler will dial again.

Option 7 **Use the Dial Pre-fix Number -** If the Telephone number does not provide sufficient digits for dialling purposes it is possible to program a dial pre-fix number (P175E8E). The pre-fix can be dialled before the telephone number. Turning this option on dials the pre-fix first followed by the telephone number.

Option 8 **Used as the Call-back Number -** Any of the 8 telephone numbers can be designated as the Call-back number. A Call-back number is normally used to allow the panel to dial a preset number and connect to a modem for upload/download purposes. Some modems may generate tones during a Call-back operation that can confuse the panel unless the reporting format (P182E) is programmed as "0".

MAXIMUM DIAL RE-TRIES per TELEPHONE NUMBER

MAXIMUM DIAL RE-TRIES per TELEPHONE NUMBER - P184E 1-8E (Value 0-99)

The maximum dial re-tries is the number of times that the panel will dial a telephone number in an attempt to get kissed-off.

DIALLER REPORTING OPTIONS "A"

DIALLER REPORTING OPTIONS "A" - P186E 1-8E
Option 1 - Report Mains Fail
Option 2 - Report Battery Low
Option 3 - Report Radio Battery Low
Option 4 - Report Line Fail
Option 5 - Report System Tamper
Option 6 - Report Keypad Tamper
Option 7 - Report Zone Tamper
Option 8 - Report Radio Zone Tamper

Option 1 **Report Mains Fail** - If this option is on the panel will report a Mains fail after the report delay time (P25E6E) has expired.

Option 2 **Report Battery Low -** If this option is on the panel will report a Battery Low.

Option 3 **Report Radio Battery Low** - If this option is on the panel will report a Battery Low from any radio zones that have the battery status monitored.

Option 4 **Report Line Fail -** If this option is on the panel will report a Telephone Line fail. The panel will send the line fail and the line restore at the same time.

Option 5 **Report System Tamper -** If this option is on the panel will report a Tamper Alarm on the panel tamper input.

Option 6 **Report Keypad Tamper -** If this option is on the panel will report a Tamper Alarm from a keypad fitted with a tamper switch or a wrong code alarm from a keypad.

Option 7 **Report Radio Zone Tamper** - If this option is on the panel will report a Radio Zone Tamper Alarm.

DIALLER REPORTING OPTIONS "B"

DIALLER REPORTING OPTIONS "B" - P187E 1-8E
Option 1 - Report Duress
Option 2 - Report Supervised Radio Alarm
Option 3 - Report Zone Inactivity Alarm
Option 4 - Report Manual Panic Alarm
Option 5 - Report Manual Fire Alarm
Option 6 - Report Manual Medical Alarm
Option 7 - Report Radio Pendant Panic Alarm
Option 8 - Report Zone Bypasses

Option 1 **Report Duress -** If this option is on the panel will report a Duress Alarm (see P25E2E).

Option 2 **Report Supervised Radio Alarm -** If this option is on the panel will report a Supervised radio Alarm (see P25E4E).

Option 3 **Report Zone Inactivity Alarm -** If this option is on the panel will report a Zone Inactivity (Sensor-watch) Alarm (see P163E).

Option 4 **Report Manual Panic Alarm -** If this option is on the panel will report a Keypad generated Panic Alarm.

Option 5 **Report Manual Fire Alarm -** If this option is on the panel will report a Keypad generated Fire Alarm.

Option 6 **Report Manual Medical Alarm -** If this option is on the panel will report a Keypad generated Medical Alarm.

Option 7 **Report Radio Pendant Panic Alarm -** If this option is on the panel will report a Panic Alarm generated by a radio key (pendant).

Option 8 **Report Zone Bypasses -** If this option is on the panel will report a Manual or Auto Bypass on a zone.

DIALLER REPORTING OPTIONS "C"

DIALLER REPORTING OPTIONS "C" - P188E 1-8E
Option 1 - Report Arm/Disarm
Option 2 - Report Stay Mode Arm/Disarm
Option 3 - Report Disarm only after an Alarm
Option 4 - Report Stay Mode Disarm only after an Alarm
Option 5 - Report Stay Mode Zone Alarms
Option 6 - Report Access to Program Mode
Option 7 - Report 24 Hour Alarms for Domestic/Voice Formats
Option 8 - Report Zone Restores

Option 1 **Report Arm/Disarm -** If this option is on then all Arm/Disarm signals will be reported to a Monitoring Station if Contact ID or 4 + 2 is set as the reporting format.

Option 2 **Report Stay Mode Arm/Disarm** - If this option is on then all Stay Mode Arm/Disarm signals will be reported to a Monitoring Station if Contact ID or 4 + 2 is set as the reporting format.

Option 3 **Send Disarm only after an Alarm** - If this option is on, the panel will not normally send an Arm/Disarm signal to the monitoring company, however, if a zone alarm occurs then the panel will send a Disarm following the disarming of the panel to show it has been turned off by a valid user.

Option 4 **Send Stay Mode Disarm only after an Alarm -** If this option is on, the panel will not normally send a Stay Mode Arm/Disarm signal to the monitoring company, however, if a zone alarm occurs then the panel will send a Stay Mode Disarm following the disarming of the panel to show it has been turned off by a valid user.

Option 5 **Report Stay Mode Zone Alarms -** If this option is on, the panel will report zone alarms in Stay Mode.

Option 6 **Report Access to Program Mode** - If this option is on the panel will report a Contact ID code to indicate that either Client or Installer program Modes have been accessed.

Option 7 **Report 24 Hour Alarms for Domestic/Voice Formats -** When the panel is set to send alarms via domestic or voice mode, No alarms will normally be sent for 24 hour zones. If 24 hour alarms are required to be reported in Domestic/Voice mode then this option must be turned on.

Option 8 **Report Zone Restores -** If this option is on the panel will report all zone restores in Contact ID or 4 + 2 formats. If this option is turned off the panel will only report the alarms.

DIALLER REPORTING OPTIONS "D"

DIALLER REPORTING OPTIONS "D" - P189E 1-8E
Option 1 - Report Latchkey Disarm
Option 2 - Report Delinquency Alarm
Option 3 - Report Test Calls
Option 4 - Report Fuse Failure
Option 5 - Report Output 1 or 2 Fail
Option 6 - Report RTC (Real Time Clock) Time changed
Option 7 - Report Keypad Buss Trouble
Option 8 - Report RF Interference (Jamming) Detected

Option 1 **Report Latchkey Disarm -** If the panel is armed in Latchkey Report Mode by using a Code, Key-switch, <ARM>, <STAY>, <A> or <B> buttons, any code or key-switch without the Latchkey option (P4E or P112E Option 6 off) used to Disarm the Alarm will cause a Latchkey Disarm report to be sent via the dialler. For Domestic or Voice reporting option 1 at P188E must also be turned ON.

Option 2 **Report Delinquency Alarm** - If the panel has been configured for Delinquency monitoring (P67E) and an area has not been armed for the time set at P67E, a Delinquency Alarm will be sent to the Monitoring Station if Contact ID or 4 + 2 is set as the reporting format.

Option 3 **Send Test Calls** - If Contact ID or 4 + 2 formats are used for reporting alarm, the panel can also send Automatic test calls. If this option is turned on the test calls will be sent but if test calls are not required they can be disabled by turning this option off.

Option 4 **Report Fuse Failure -** The panel has two on-board thermal fuses designed to protect the 12v DC outputs from short circuits. If this option is on and either of these fuses are open, a report will be sent to the monitoring station if Contact ID is set as the reporting format.

Option 5 **Report Output 1 or 2 Fail -** The panel has two high current Outputs (O/P 1 & 2). These Outputs are normally used to drive sirens or strobes for local alarm warning. If option 8 at location P37E is on for either O/P 1 or 2 the Output status will be monitored (eg wire to siren has been cut). If this option is on and a fault is detected on the output, a report will be sent to the monitoring station if Contact ID is set as the reporting format

Option 6 **Report RTC (Real Time Clock) Time Changed -** If the panel clock is changed and this option is turned on, the event will be reported to the monitoring station.

Option 7 **Report Keypad Buss Trouble** - If any connected keypads are removed from the system they will be reported as missing if this option is turned on.

Option 8 **Report RF Interference (Jamming) Detected** - If the radio receiver detects RF Interference (jamming) of the radio frequency the panel can report this event to the monitoring station if this option is turned on.

CALL DIVERT TRIGGER EVENTS

CALL DIVERT TRIGGER EVENTS - P192E 1-2E (1 = Area A Trigger Events, 2 = Area B Trigger Events)
Option 1 - Divert on Arm
Option 2 - Divert on Disarm
Option 3 - Divert on Stay Mode Arm
Option 4 - Divert on Stay Mode Disarm
Option 5 - Divert on Key-switch Arm/Disarm
Option 6 - Divert on Time-zone Arm/Disarm
Option 7 - Divert on DTMF or PC Arm/Disarm
Option 8 - Divert on single button <ARM> or <STAY>

Option 1 **Divert Arm -** If this option is on then the Call-Divert On number (P194E1E) will be dialled when the system is Armed. The User Code must have call divert assigned at P4E option 7 for it to happen. If a User Code does not have option 7 on at P4E the call divert number will not be dialled (used for cleaner codes and others who should not be able to remove the call divert function).

Option 2 **Divert on Disarm -** If this option is on then the Call-Divert Off number (P194E2E) will be dialled when the system is Disarmed. The User Code must have call divert assigned at P4E option 7 for it to happen. If a User Code does not have option 7 on at P4E the call divert number will not be dialled (used for cleaner codes and others who should not be able to remove the call divert function).

Option 3 **Divert on Stay Mode Arm -** If this option is on then the Call-Divert On number (P194E1E) will be dialled when the system is Armed in Stay Mode. The User Code Must have call divert assigned at P4E option 7 for it to happen. If a User Code does not have option 7 on at P4E the call divert number will not be dialled (used for cleaner codes and others who should not be able to remove the call divert function).

Option 4 **Divert on Stay Mode Disarm -** If this option is on then the Call-Divert Off number (P194E2E) will be dialled when the system is Stay Mode Disarmed. The User Code must have call divert assigned at P4E option 7 for it to happen. If a User Code does not have option 7 on at P4E the call divert number will not be dialled (used for cleaner codes and others who should not be able to remove the call divert function).

Option 5 **Divert on Key-switch Arm/Disarm -** If this option is on then the Call-Divert On and Off numbers (P194E1E & 2E) will be dialled when the system is Armed or Disarmed with the key-switch.

Option 6 **Divert on Time-zone Arm/Disarm -** If this option is on then the Call-Divert On and Off numbers (P194E1E & 2E) will be dialled when the system is Armed or Disarmed by a Time-zone.

Option 7 **Divert on DTMF or PC Arm/Disarm -** If this option is on then the Call-Divert On and Off numbers (P194E1E & 2E) will be dialled when the system is Armed or Disarmed by a Remote DTMF code or by a PC connection.

Option 8 **Divert on single button <ARM> or <STAY> -** If this option is on then the Call-Divert On number (P194E1E) will be dialled when the system is Armed with the <ARM> or <STAY> buttons. This option must be selected if the Call Divert function is required and single button arming is being used.

DIVERT NUMBER DIAL OPTIONS

DIVERT NUMBER DIAL OPTIONS - P193E 1-2E (1 = Divert ON Number, 2 = Divert OFF number)
Option 1 - Spare
Option 2 - Spare
Option 3 - Blind Dial
Option 4 - Spare
Option 5 - Spare
Option 6 - Spare
Option 7 - Use the Dial Pre-fix Number
Option 8 - Spare

Option 3 **Blind Dial** - When the dialler makes a divert call it checks for dial tone first. If no dial tone is detected the panel hangs up and attempts another call. The panel will do this 3 times and if dial tone is still not detected it will make the call anyway. If blind dial is on, the panel skips the dial tone detection and dials 4 seconds after looping the line (used where non standard or low level dial tone exists).

Option 7 **Use the Dial Pre-fix Number -** If the Divert number does not provide sufficient digits for dialling purposes it is possible to program a dial pre-fix number (P175E8E). The pre-fix can be dialled before the divert number. Turning this option on dials the pre-fix first followed by the divert number.

DIVERT NUMBER

DIVERT NUMBER - P194E 1-2E (Value 1-16 digits) (1 = Divert ON Number, 2 = Divert OFF number)

The call divert numbers are programmed at this location. They are the numbers that must be dialled to turn the divert On or Off. Option 1 is the number to turn call divert on and Option 2 is the call divert off number.

4+2 Program Options

When using the 4+2 Reporting Format the two digit report code can be changed if desired at the locations below. Also the two digit codes can include the numbers 0-9 as well the special characters B,C,D,E & F. The chart below shows how to program the special 4+2 characters.

LED KEYPAD BUTTON	LED KEYPAD INDICATION	LCD KEYPAD BUTTON	LCD KEYPAD CID & 4+2 INDICATIONS	LCD KEYPAD TELEPHONE INDICATIONS	CID & 4+2 SPECIAL CHARACTERS	TELEPHONE NUMBER SPECIAL FUNCTION
"BYPASS"	-	CONTROL & 0	-	DELETE #	DELETE #	DELETE #
"PANIC"	11	CONTROL & 2	B	#	"B"	"#"
"MEMORY"	12	CONTROL & 3	C	*	"C"	"*"
"CONTROL"	13	CONTROL & 4	D	-	"D"	"2.5 sec Pause"
"ARM"	14	CONTROL & 5	E	w	"E"	"Wait for 2nd Dial-tone"
"STAY"	15	CONTROL & 6	F	=	"F"	"5 sec Pause"

ARMED by USER 4+2 CODE

ARMED by USER 4+2 CODE - P16E 1-100E User Number (Value 00-FF)

DISARMED by USER 4+2 CODE

DISARMED by USER 4+2 CODE - P17E 1-100E User Number (Value 00-FF)

ZONE ALARM 4+2 CODE

ZONE ALARM 4+2 CODE - P147E 1-16E Zone Number (Value 00-FF)

ZONE ALARM RESTORE 4+2 CODE

ZONE ALARM RESTORE 4+2 CODE - P148E 1-16E Zone Number (Value 00-FF)

ZONE NEAR ALARM 4+2 CODE

ZONE NEAR ALARM 4+2 CODE - P149E 1-16E Zone Number (Value 00-FF)

ZONE NEAR ALARM RESTORE 4+2 CODE

ZONE NEAR ALARM RESTORE 4+2 CODE - P150E 1-16E Zone Number (Value 00-FF)

ZONE VERIFIED ALARM 4+2 CODE

ZONE VERIFIED ALARM 4+2 CODE - P151E 1-16E Zone Number (Value 00-FF)

ZONE VERIFIED ALARM RESTORE 4+2 CODE

ZONE VERIFIED ALARM RESTORE 4+2 CODE - P152E 1-16E Zone Number (Value 00-FF)

ZONE BYPASS 4+2 CODE

ZONE BYPASS 4+2 CODE - P155E 1-16E Zone Number (Value 00-FF)

ZONE BYPASS RESTORE 4+2 CODE

ZONE BYPASS RESTORE 4+2 CODE - P156E 1-16E Zone Number (Value 00-FF)

4 + 2 Programming Options Continued

MAINS FAIL 4+2 CODE
MAINS FAIL 4+2 CODE - P195E 1E (Value 00-FF)

MAINS FAIL RESTORE 4+2 CODE
MAINS FAIL RESTORE 4+2 CODE - P195E 2E (Value 00-FF)

BATTERY LOW 4+2 CODE
BATTERY LOW 4+2 CODE - P195E 3E (Value 00-FF)

BATTERY LOW RESTORE 4+2 CODE
BATTERY LOW RESTORE 4+2 CODE - P195E 4E (Value 00-FF)

SYSTEM TAMPER 4+2 CODE
SYSTEM TAMPER 4+2 CODE - P195E 5E (Value 00-FF)

SYSTEM TAMPER RESTORE 4+2 CODE
SYSTEM TAMPER RESTORE 4+2 CODE - P195E 6E (Value 00-FF)

DTMF or PC ARM 4+2 CODE
DTMF or PC ARM 4+2 CODE - P195E 7E (Value 00-FF)

DTMF or PC DISARM 4+2 CODE
DTMF or PC DISARM 4+2 CODE - P195E 8E (Value 00-FF)

DURESS ALARM 4+2 CODE
DURESS ALARM 4+2 CODE - P195E 9E (Value 00-FF)

AUTOMTIC TEST CALL 4+2 CODE
AUTOMATIC TEST CALL 4+2 CODE - P195E 10E (Value 00-FF)

ARMED by <ARM> BUTTON 4+2 CODE
ARMED by <ARM> BUTTON 4+2 CODE - P195E 11E (Value 00-FF)

STAY MODE ARM 4+2 CODE
STAY MODE ARM 4+2 CODE - P195E 12E (Value 00-FF)

DISARMED by <ARM> or <STAY> BUTTON 4+2 CODE
DISARMED by <ARM> or <STAY> BUTTON 4+2 CODE - P195E 13E (Value 00-FF)

ARMED by KEY-SWITCH 4+2 CODE
ARMED by KEY-SWITCH 4+2 CODE - P195E 14E (Value 00-FF)

DISARMED by KEY-SWITCH 4+2 CODE
DISARMED by KEY-SWITCH 4+2 CODE - P195E 15E (Value 00-FF)

FAIL to ARM by TIME-ZONE 4+2 CODE
FAIL to ARM by TIME-ZONE 4+2 CODE - P195E 16E (Value 00-FF)

"PANIC" ALARM 4+2 CODE
"PANIC" ALARM 4+2 CODE - P195E 17E (Value 00-FF)

"PANIC" ALARM RESTORE 4+2 CODE
"PANIC" ALARM RESTORE 4+2 CODE - P195E 18E (Value 00-FF)

"FIRE" ALARM 4+2 CODE
"FIRE" ALARM 4+2 CODE - P195E 19E (Value 00-FF)

"FIRE" ALARM RESTORE 4+2 CODE
"FIRE" ALARM RESTORE 4+2 CODE - P195E 20E (Value 00-FF)

"MEDICAL" ALARM 4+2 CODE
"MEDICAL" ALARM 4+2 CODE - P195E 21E (Value 00-FF)

"MEDICAL" ALARM RESTORE 4+2 CODE
"MEDICAL" ALARM RESTORE 4+2 CODE - P195E 22E (Value 00-FF)

SIA Alarm Report Codes

The programmable SIA alarms events below are changed by programming a value from 1-14 (see chart below). For example, to send the SIA "Emergency Alarm" code when a keypad panic is generated you must program a value of "7" at location P197E1E.
From the chart below you can select one of 14 options that should cover most of the custom requirements.
As an example, if you required zone 10 to send a fire alarm you would program a value of 4 at address P196E10E.
When you program a particular alarm type at any of the locations below, the panel will automatically send all of the other associated reports (if applicable) from the chart. Using the same example, if zone 10 was bypassed and the SIA report code was set to type 4, the panel will send an "FB" event code to indicate that it is a fire zone bypass instead of the default burglar alarm bypass (BB).

ZONE ALARM SIA REPORTING CODES

ZONE ALARM SIA REPORTING CODE - P196E 1-16E (Value from 1-14 taken from the chart below)

"PANIC" ALARM SIA REPORTING CODES

"PANIC" ALARM SIA REPORTING CODE - P197E 1E (Value from 1-14 taken from the chart below)

"FIRE" ALARM SIA REPORTING CODES

"FIRE" ALARM SIA REPORTING CODE - P197E 2E (Value from 1-14 taken from the chart below)

"MEDICAL" ALARM SIA REPORTING CODES

"MEDICAL" ALARM SIA REPORTING CODE - P197E 3E (Value from 1-14 taken from the chart below)

CHART FOR THE PROGRAMMABLE SIA EVENT CODES

Event Description	Program Number	Alarm	Restore	Bypass	Un-Bypass	Trouble	Trouble Restore	Near Alarm	Verified Alarm
Burglary	1	BA	BH	BB	BU	BT	BJ	BA	BV
Un-typed Alarm	2	UA	UH	UB	UU	UT	UJ	-	-
Hold-up	3	HA	HH	HB	HU	HT	HJ	-	-
Fire	4	FA	FH	FB	FU	FT	FJ	FA	FM
Medical	5	MA	MH	MB	MU	MT	MJ	-	-
Panic	6	PA	PH	PB	PU	PT	PJ	-	-
Emergency	7	QA	QH	QB	QU	QT	QJ	-	-
Gas	8	GA	GH	GB	GU	GT	GJ	-	-
Sprinkler	9	SA	SH	SB	SU	ST	SJ	-	-
Water	10	WA	WH	WB	WU	WT	WJ	-	-
Heat	11	KA	KH	KB	KU	KT	KJ	-	-
Freeze	12	ZA	ZH	ZB	ZU	ZT	ZJ	-	-
Equipment	13	IA	IR	-	-	-	-	-	-
Equip. Tamper	14	TA	TH	TB	TU	TT	TJ	-	-

Panel Diagnostic & Default Options

PANEL SOFTWARE VERSION NUMBER

PANEL SOFTWARE VERSION NUMBER - P200E 1E

This location will display the software version of the panel.

KEYPAD ADDRESS NUMBER

KEYPAD ADDRESS NUMBER - P200E 2E

This location will display the keypad number of the keypad currently in program mode.

AREAS ASSIGNED to the KEYPAD

AREAS ASSIGNED to the KEYPAD - P200E 3E

This location will display the Areas assigned to the keypad currently in program mode.

DISPLAY TIME-ZONES CURRENTLY ACTIVE

DISPLAY TIME-ZONES CURRENTLY ACTIVE - P200E 4E

This location will display which of the 8 Time-zones are currently on.

DISPLAY BATTERY VOLTAGE

DISPLAY BATTERY VOLTAGE - P200E 5E

This location will display the system battery voltage measured by the panel.

WALK TEST MODE

WALK-TEST MODE - P200E 6E

This address is used to start walk-test mode while in installer or client program mode. By pressing P200E6E at the keypad, the keypad buzzer will beep at 1 second intervals to indicate walk-test mode is active. If a siren is connected to an Output and that output has option 1 turned on at location P36E the siren will give a 1 second beep every time a zone is triggered while walk-test mode is active. By walking past all of the detectors connected to the system and activating them, the associated zone will latch up at the keypad to allow verification that all zones are working properly. By pressing the <Program> or <Enter> button, walk-test mode will be terminated and the panel will leave program mode. The results of the walk-test will be saved in the memory event buffer and can be viewed by accessing memory display mode to verify which detectors were triggered during walk-test mode. If Output 1 or 2 are used for the Audible walk-test indication and a horn speaker is connected to the output (see P37E1 or 2E option 1), the siren on the output will give a single tone for the chirp instead of the swept tone used for alarms.

WRITE TO EEPROM (DTU) BOARD

WRITE to EEPROM[DTU] BOARD - P200E 7E

This location is used to copy the panels program configuration to an external EEPROM memory card (DTU-Data Transfer Unit) which can be plugged into the expansion socket on the control board. The write protect link on the DTU board must be ON for the data to be transferred.

READ FROM EEPROM (DTU) BOARD

READ from EEPROM[DTU] BOARD - P200E 8E

This location is used to return the panels program configuration from an external EEPROM memory card (DTU-Data Transfer Unit) which can be plugged into the expansion socket on the control board.

DEFAULT CODES & TELEPHONE NUMBERS

DEFAULT CODES & TELEPHONE NUMBER - P200E 9E

This location is used to return the panels User and Installer Codes plus the Telephone Numbers & Account Codes to the default settings.

DEFAULT ALL PROGRAMMING TO FACTORY SETTINGS

DEFAULT ALL PROGRAMMING TO FACTORY SETTINGS - P200E 10E

This location is used to return the panels User and Installer Codes plus the Telephone Numbers & Account Codes to the default settings.

CLEAR ALARM MEMORY BUFFER

CLEAR ALARM MEMORY BUFFER - P200E 11E

This location is used to clear ALL of the events stored on memory.

INITIATE A CALL to the CALL-BACK NUMBER

INITIATE A CALL to the CALL-BACK NUMBER - P200E 12E

READ RSSI from PENDANTS and WIRELESS ZONES

READ RSSI from PENDANTS and ZONES - P200E 14E

This location is used to display the RSSI (received signal strength) from Pendants and Wireless Zones that are loaded into the panel. The feature was added at panel version V906.5 and requires the Arrowhead RX-16 MF receiver to be connected to the panel for RSSI data to be available. The RSSI reading will be shown along with the user or zone number that was received. The feature can only be displayed on LCD keypads with a software version of V208.5 and higher or the Icon LCD keypad

ESL-2 Program Summary Guide - Users

The following program summary is an abbreviated version of all the panel program addresses. This is intended as a quick guide to finding a program address. In many address locations, there is a main address (e.g. "*PIE*"), then a sub address (e.g. PIE "*IE*"). You must enter in the main address number, followed by the sub address, then you can enter the actual data. The program addresses are in numerical order with page references beside them so you can get more detailed information if required. This Summary is split into 11 headings. These are;

1) Users - Page 93
2) Miscellaneous Panel & Clock Settings - Page 95
3) Outputs - Page 96
4) Areas - Page 97
5) Keypads - Page 98
6) Key-Switches - Page 102
7) Zones - Page 102
8) Time Zones - Page 106
9) Dialler - Page 107
10) Telephone Numbers - Page 108
11) Miscellaneous 4+2 Program Options - Page 109
12) SIA Report Codes - Page 110
13) Panel Diagnostic & Default Options - Page 110

Users

Programming User Codes

P1E **1-100E** **User Code 1-100 -** Default for User Code # 1 (P1E1E) = 123 Codes can be 1-6 or 4-6 digits. Page 37

(where 1E = User Code #1 to 100E = User Code #100)

NOTE: The 100 Users can be Keypad Code, Radio or Access Key Users. They can be mixed but the Maximum is 100 Users.
The User type MUST be set to "0" (P2E User# E) for a code to be entered at the above address.

User Type (Code/Radio/Access Tag-Card)

P2E **1-100E** **User # 1-100 Type -** Page 37
(Default = 4)
0 = Keypad Code User (PIN)
1 = Radio User (Users 21-100 only)
2 = Access Tag/Card User
3 = Both Code and Access Tag/Card User (Tag + PIN)
4 = Either Code or Access Tag/Card User (Tag or PIN)

User Area Assignment

P3E **1-100E** **User # 1-100 Area -** Page 38
(Default User 1-99 = 1) (100 = 1 & 2)
1 = Assigned to Area "A"
2 = Assigned to Area "B"

User Code Access Options

P4E **1-100E** **Users 1-100 Access Options** (Default 1-4) Page 38
(Default User 1-39 &100 = 1,3,4)
(Default User 40-49 = 1)
(Default User 50-79 = 3,4)
(Default User 80-99 = All Off)
1 = Code can Arm Area
2 = Code can arm Stay Mode
3 = Code can Disarm Area
4 = Code can disarm Stay Mode
5 = Code is a Security Guard Code
6 = Code will Arm Latchkey Mode
7 = Call Divert Code
8 = Can View Event Memory

User Code Privileges

P5E **1-100E** **Users 1-100 Privileges** Page 39
(Default User 1 & 100= 2,3,4,5,6,7,8)
(Default User 2-99 = All Off)
1 = User can Change their Code
2 = User can Change All Codes
3 = User can Allow Access to Installer Mode/Edit all Codes
4 = User can Change Telephone Numbers
5 = User can Change the Clock
6 = User can Change DTMF Command Codes
7 = User can Learn New Radio Devices
8 = User can Force a Download to Callback Number

Radio User Type

P7E **21-100E** **Radio User 21-100 Type** Page 40
(Default = 0)
0 = General Pendant Type
1 = Crow Freelink Pendant
21 = Ness Pendant

Radio User Privileges

P8E **21-100E** **Radio Users 21-100 Privileges** Page 40
(Default User 1-79 & 90-100 = 1)
(Default User 80-89 = 1,2)
1 = Pendant Can Disarm at All Times
2 = Pendant Causes Immediate Panic
3 = Pendant Causes Delayed Panic (1.5 Sec)
4 = Pendant only works during Entry Delay
5 = This User is a Duress Code (Users 21-100)
6 = Spare
7 = Spare
8 = Spare

Time Zone Assigned to a User

P9E **1-100E** **Time Zone to User # 1-100** Page 40
(Default = All Off)
1 = User Controlled by Time Zone # 1
2 = User Controlled by Time Zone # 2
3 = User Controlled by Time Zone # 3
4 = User Controlled by Time Zone # 4

5 = User Controlled by Time Zone # 5
6 = User Controlled by Time Zone # 6
7 = User Controlled by Time Zone # 7
8 = User Controlled by Time Zone # 8

User to Keypad Assignment

P10E 1-100E User # 1-100 Keypad Assignment (Default = All On)

1 = Can Operate at Keypad # 1
2 = Can Operate at Keypad # 2
3 = Can Operate at Keypad # 3
4 = Can Operate at Keypad # 4
5 = Can Operate at Keypad # 5
6 = Can Operate at Keypad # 6
7 = Can Operate at Keypad # 7
8 = Can Operate at Keypad # 8

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Radio Pendant Panic Beeps to Keypad

P11E 21-100E Radio # 21-100 Panic Beep to Keypad (Default = All On)

1 = A Radio panic will Beep at Keypad # 1
2 = A Radio panic will Beep at Keypad # 2
3 = A Radio panic will Beep at Keypad # 3
4 = A Radio panic will Beep at Keypad # 4
5 = A Radio panic will Beep at Keypad # 5
6 = A Radio panic will Beep at Keypad # 6
7 = A Radio panic will Beep at Keypad # 7
8 = A Radio panic will Beep at Keypad # 8

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Users to Output Mask

P12E 1-100E User # 1-100 to Output Mask (Default = 3,4,5,6,7,8)

1 = User is Mapped to Output # 1
2 = User is Mapped to Output # 2
3 = User is Mapped to Output # 3
4 = User is Mapped to Output # 4
5 = User is Mapped to Output # 5
6 = User is Mapped to Output # 6
7 = User is Mapped to Output # 7
8 = User is Mapped to Output # 8

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User can Turn an Output On

P13E 1-100E User # 1-100 Can Turn On an Output
(Default User 1-59, 80-89 & 100 = All Off)
(Default User 60-69 & 90-91 = 3 On)
(Default User 70-79 = 4 On)
(Default User 92-93 = 5 On)
(Default User 94-95 = 6 On)
(Default User 96-97 = 7 On)
(Default User 98-99 = 8 On)

1 = User Can Turn on Output # 1
2 = User Can Turn on Output # 2
3 = User Can Turn on Output # 3
4 = User Can Turn on Output # 4
5 = User Can Turn on Output # 5
6 = User Can Turn on Output # 6
7 = User Can Turn on Output # 7
8 = User Can Turn on Output # 8

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User can Turn an Output Off

P14E 1-100E User # 1-100 Can Turn Off an Output
(Default User 1-89 & 100 = All Off)
(Default User 90-91 = 3 On)
(Default User 92-93 = 5 On)
(Default User 94-95 = 6 On)
(Default User 96-97 = 7 On)
(Default User 98-99 = 8 On)

1 = User Can Turn off Output # 1
2 = User Can Turn off Output # 2
3 = User Can Turn off Output # 3
4 = User Can Turn off Output # 4
5 = User Can Turn off Output # 5
6 = User Can Turn off Output # 6
7 = User Can Turn off Output # 7
8 = User Can Turn off Output # 8

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Radio Pendant Panic Alarm to an Output

P15E 21-100E Radio # 21-100 Panic Alarm to an O/P (Default = 1,2)

1 = Radio panic to Output # 1
2 = Radio panic to Output # 2
3 = Radio panic to Output # 3
4 = Radio panic to Output # 4
5 = Radio panic to Output # 5
6 = Radio panic to Output # 6
7 = Radio panic to Output # 7
8 = Radio panic to Output # 8

Page 42

Armed by User # 4+2 Reporting Code

P16E 1-100E 4+2 Arm Code for Users 1-100

Page 88

Disarmed by User # 4+2 Reporting Code

P17E 1-100E 4+2 Disarm Code for Users 1-100

Page 88

Learn Radio Pendant Codes

P18E 21-100E Learn Radio Pendant Codes for Users 21-100
(applies if the User Type, P2E, is set to 1)

Page 42

Delete a Specific Radio Pendant Code

P19E 21-100E Delete a Specific Radio Pendant Code for Users 21-100
(applies if the User Type, P2E, is set to 1)

Page 43

Find Radio Pendant memory Location

P20E 0E Enter this address then operate the Radio Pendant to find its user #
(applies if the User Type, P2E, is set to 1). Only press 0E when using LED Keypad.

Page 43

Learn Access Tag/Card Codes

P21E 1-100E Learn Access Tag/Card Codes for Users 1-100
(applies if the User Type, P2E, is set to 2, 3 or 4)

Page 43

Delete a Specific Access Tag/Card Code

P22E 1-100E Delete a Specific Access Tag/Card Code for Users 1-100
(applies if the User Type, P2E, is set to 2, 3 or 4)

Page 43

Find an Access Tag/Card memory Location

P23E 0E Enter this address then operate the Access Tag/Card to find its user #
(applies if the User Type, P2E, is set to 2, 3 or 4). Only press 0E when using LED Keypad.

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Miscellaneous Panel & Clock Settings

Installer Code
P25E 1E **Installer Code -** (Default = 000000) Page 44

Duress Digit
P25E 2E **Duress Digit -** Value 1-9 (Default = 0 Duress Function Disabled) Page 44

Dial Report Delay
P25E 3E **Dial Report Delay -** Value 0-255 seconds (Default = 0) Page 44

Radio Detector Supervised Timer
P25E 4E **Radio Detector Supervised Timer -** 0-9999 Minutes (Default = 240 Minutes [4 Hours]) Page 44

Two Trigger Timer
P25E 5E **Two Trigger Timer -** Value 0-255 Seconds (Default = 60 Sec) Page 44

Mains Fail Reporting Delay
P25E 6E **Mains Fail Reporting Delay -** Value 0-9999 Seconds (Default = 600 Sec) Page 44

Receiver Fail Delay
P25E 7E **Receiver Fail Delay -** Value 0-9999 Seconds (Default = 0 Sec-Disabled) Page 45

Upload/Download Site Code Number
P25E 8E **Upload/Download Site Code Number -** Up to 8 Characters (Default = None) Page 45

Temporary Output Disable
P25E 9E **Temporary Output Disable -** Output 1-8 Page 45

Miscellaneous Panel Options
P25E 10E **Misc. Panel Options** (Default = 2,6) Page 45

Miscellaneous Options
1 = Panel Tamper is 2k2 EOL
2 = Direct access to program mode for the installer code.
3 = Disable Mains Fail Test
4 = Listen-in to O/P # 1 Low Volume
5 = Receiver Fail/RF Jammed Lockout
6 = Send output information to keypad bus
7 = Cannot arm if the system battery is low
8 = Installer Lockout

Installer Options
P25E 11E **Installer Options** (Default = All Off) Page 46

1 = Entry to installer mode resets confirmed alarms
2 = Entry to installer mode resets tamper alarms
3 = Entry to installer mode resets low battery alarms
4 = Entry to installer mode resets supervisory alarms
5 = Cannot Arm if there is a keypad Fault
6 = Cannot Arm if there is a Telephone Line Failure or Comms Fault
7 = 10 Incorrect Code Attempts locks out the keypad for 90 Seconds
8 = User Codes Must be 4-6 digits long

User Options
P25E 12E **User Options (NOTE: This Option can ONLY be accessed from Client Mode)** (Default = All Off) Page 47

1 = Hide User Codes from Installer

P25E 13E **Misc. User Options** (Default =) Page 47

Miscellaneous User Options
1 = Code Required to View Memory
2 = Cancel Handover Zone Function in Stay Mode
3 = Output Control from Keypad is Disabled when Armed
4 = Keypad Codes are Disabled During Entry Delay
5 = No Keypad Indications while Armed
6 = Monitored KP Buss Output Board
7 = Enable Keypad Tamper Switch Alarms
8 = Limit Events & Dialler to 3 of any one type

Setting Real Time Clock
P26E 1E **Real Time Hour/Minute -** Value 0-2359 Page 48
P26E 2E **Real Time Day of Week -** Value 1-7 (1=Sunday, 2=Monday ,etc)
P26E 3E **Real Time Date/Month/Year -** Value DDMMYY (eg 020904 = 2nd Sept 2004)
P26E 4E **Daylight Saving is Active** (If LED #1 is On, Daylight Saving is currently active) Turn this bit ON if you are in Daylight Saving Time when the panel is installed.

Daylight Saving settings
P27E 1E **Daylight Saving Start Sunday -** Value 0-5 - Default = 5 (0 = DLS disabled, 5 = last Sunday of Month) Page 48
2E **Daylight Saving End Sunday -** Value 0-5 - Default = 1 (0 = DLS disabled, 5 = last Sunday of Month)
P28E 1E **Daylight Saving Start Month -** Value 1-12 - Default = 9
2E **Daylight Saving End Month -** Value 1-12 - Default = 4
P29E 1E **Daylight Saving Start Hour -** Value 0-23 - Default = 2
2E **Daylight Saving End Hour -** Value 0-23 - Default = 3

Programming Output Options "A"

P34E 1-8E **Options "A" for Outputs 1-8**
(Default O/P's 1&2 = All Off)
(Default O/P's 3-8 = 6,7 On)

1 = Invert Output
2 = Flash Output
3 = Single Pulse to Output
4 = Lockout Output
5 = DTMF Remote Control can operate Output
6 = User Can operate this Output
7 = "App Control" button Can Operate Output
8 = Chime Alarms will Flash this Output (linked to Pulse Timer)

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Programming Output Options "B"

P35E 1-8E **Options "B" for Outputs 1-8**
(Default O/P's 1&2 = 7)
(Default O/P's 3-8 = All Off)

1 = Mains Fail to Output (Operates when P25E6E time expires)
2 = Fuse Failure to Output
3 = Battery Low to output
4 = Telephone Line Failure to Output
5 = Supervised Radio Signal Failure
6 = Sensor-Watch Alarm
7 = System Tamper to Output
8 = Receiver Fail

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Programming Output Options "C"

P36E 1-8E **Options "C" for Outputs 1-8**
(Default = All Off)

1 = Walk Test Pulse to Output
2 = Pulse Output every 5 seconds when Disarmed
3 = Pulse Output on Kiss-off Following Arming
4 = Pulse Output on Kiss-off Following a Zone Alarm
5 = Output Disabled when P25E3E timer is running
6 = Spare
7 = Spare
8 = Spare

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Programming Output Options "D"

P37E 1-8E **Options "D" for Outputs 1-8**
(Default O/P's 1,3-8 = All Off)
(Default O/P's 2 = 3 On)

1 = Siren Driver to Output (requires a horn speaker, outputs 1&2)
2 = Output Reset-Chime timers are in minutes (off for seconds-1/10th seconds)
3 = Output 'silenced' for 10 seconds on key-press if alarm
4 = Turn Output OFF during Two Way Voice Mode
5 = Spare
6 = Spare
7 = Spare
8 = Monitored Output (can tell if siren cable is cut, outputs 1&2 only)

Page 50

Output ON Delay Time

P38E 1-8E **Output 1-8 ON Delay Time -** 0-9999 Seconds (Default = 0 Sec)

Page 51

Output Pulse Time

P39E 1-8E **Output 1-8 Pulse Time -** 0-255;1/10th Sec increments (Default =2 which is 0.2 sec)

Page 51

Output Reset Time

P40E 1-8E **Output 1-8 Reset Time -** 0-9999 Seconds (Default 1&2 = 300 Sec)(3&4 = 2 Sec)(5-8 = 5 Sec)
(if option 2 at P37E is on the reset time is in minutes)

Page 51

Output Chime Mode Time

P41E 1-8E **Output 1-8 Chime Timer -** 0-255;1/10th Sec increments (Default =10 which is 1 sec)

Page 51

Start of Output "Command Control" Status Messages

P42E 1-8E **Start message Number for Outputs 1-8 "Command Control" -** 0-99 (Default = 0)

Page 51

Un-Map an Output

P43E 1-8E **Un-map Outputs 1-8 (remove ALL Defaults from an Output)**

Page 51

Assigning a Time-zone to an Output

P44E 1-8E **Time-zones that will control Outputs 1-8 -** Value = Time-zone 1-8 (Default = All Off)

Page 51

Areas

Area "A" & "B" Options A

P45E **1-2E** **Area A&B Options A** (1=Area "A") (Default = All Off) (2=Area "B")

1 = Arm Button Required Before Code to Set
2 = Stay Button Required Before Code to Set Stay Mode
3 = Code required to Set
4 = Code Required to Bypass Zones
5 = Spare
6 = Send Arm at the end of the Exit Delay
7 = Can Arm only if All Zones are Sealed (Ready)
8 = Can Arm Stay Mode only if All Zones are Sealed (Ready)

Page 52

Area "A" & "B" Options B

P46E **1-2E** **Area A&B Options B** (1=Area "A") (Default = All Off) (2=Area "B")

1 = Near and Confirmed Alarm reporting for All zones in this Area (CID only)
2 = Area will arm at end of time-zone
3 = Area will disarm at beginning of time-zone
4 = Assign Chirps to Access tags
5 = Spare
6 = Spare
7 = Cannot Arm if Zone Unsealed at end of Exit Delay
8 = Spare

Page 52

Area "A" & "B" Arm Indication to Output

P47E **1-2E** **Area A&B Arm Indication to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

Page 53

Area "A" & "B" Stay Arm Indication to Output

P48E **1-2E** **Area A&B Stay Arm Indication to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

Page 53

Area "A" & "B" Disarm Indication to Output

P49E **1-2E** **Area A&B Disarm Indication to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

Page 53

Area "A" & "B" Pendant (or Access Tag) Arm Chirp to Output

P50E **1-2E** **Area A&B Arm Chirp to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

(One chirp to the output for arm)

Page 54

Area "A" & "B" Pendant (or Access Tag) Stay Arm Chirp to Output

P51E **1-2E** **Area A&B Stay Arm Chirp to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

(One chirp to the output for stay arm)

Page 54

Area "A" & "B" Pendant (or Access Tag) Disarm Chirp to Output

P52E **1-2E** **Area A&B Disarm Chirp to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

(Two chirps to the output for disarm)

Page 54

Area "A" & "B" Pendant Stay (or Access Tag) Disarm Chirp to Output

P53E **1-2E** **Area A&B Stay Disarm Chirp to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

(Two chirps to the output for disarm)

Page 54

Area "A" & "B" Arm Pulse to Output

P54E **1-2E** **Area A&B Arm Pulse to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

Page 54

Area "A" & "B" Stay Arm Pulse to Output

P55E **1-2E** **Area A&B Stay Arm Pulse to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

Page 55

Area "A" & "B" Disarm Pulse to Output

P56E **1-2E** **Area A&B Disarm Pulse to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

Page 55

Area "A" & "B" Stay Disarm Pulse to Output

P57E **1-2E** **Area A&B Stay Disarm Pulse to Output** - Value 1-8 (for Outputs 1-8) (1=Area "A") (Default = All Off) (2=Area "B")

Page 55

Area "A" & "B" Armed Mode Exit Delay Beeps to Keypad

P58E **1-2E** **Area A&B Armed Exit Delay Beeps to Keypad** - Value 1-8 (for Keypads 1-8) (1=Area "A") (Default, Area A = All On, Area B = All On) (2=Area "B")

Page 55

Area "A" & "B" Stay Mode Exit Delay Beeps to Keypad

P59E **1-2E** **Area A&B Stay Exit Delay Beeps to Keypad** - Value 1-8 (for Keypads 1-8) Page 55
(1=Area "A") (Default Area A = All On, Area B = All On)
(2=Area "B")

Area "A" & "B" Armed Exit Delay Time

P60E **1-2E** **Area A&B Exit Delay Time** - Value 0-255 seconds Page 56
(1=Area "A") (Default = 30 Seconds for Areas A&B)
(2=Area "B")

Area "A" & "B" Stay Armed Exit Delay Time

P61E **1-2E** **Area A&B Stay Exit Delay Time** - Value 0-255 seconds Page 56
(1=Area "A") (Default = 30 Seconds for Areas A&B)
(2=Area "B")

Area "A" & "B" Monitoring Account Code Number

P62E **1-2E** **Area A&B Account Code** - Value 0000-FFFF Page 56
(1=Area "A") (Default = 0000 for Areas A&B)
(2=Area "B")

Area "A" & "B" Remote "Command Control" Code Number

P63E **1-2E** **Area A&B Command Control code** - Value 1-4 digit code (1-9999) Page 56
(1=Area "A") (Default = 0 for Areas A&B)
(2=Area "B")

Start Message Number for Areas "A" & "B" "Command Control"

P64E **1-2E** **Start Message for Areas A&B Command Control** - Value 0-99 Page 56
(1=Area "A") (Default = 0 for Areas A&B)
(2=Area "B")

Area "A" & "B" Armed Mode Exit Delay to Output

P65E **1-2E** **Area A&B Armed Exit Delay to Output** - Value 1-8 (for Outputs 1-8) Page 57
(1=Area "A") (Default = All Off)
(2=Area "B")

Area "A" & "B" Stay Mode Exit Delay to Output

P66E **1-2E** **Area A&B Stay Exit Delay to Output** - Value 1-8 (for Outputs 1-8) Page 57
(1=Area "A") (Default = All Off)
(2=Area "B")

Area "A" & "B" Delinquency Delay

P67E **1-2E** **Area A&B Delinquency Delay** - value 0-99 Days, (0 = Off) Page 57
(1=Area "A") (Default = 0 for areas A&B)
(2=Area "B")

Area "A" & "B" Auto Arm/Disarm Time-zones

P68E **1-2E** **Area A&B Auto Arm/Disarm Time-zones** - Value 1-8 (for Time-zones 1-8) Page 57
(1=Area "A") (Default = All Off)
(2=Area "B")

Keypads

Keypad Area Assignment

P71E	1-8E	Keypads Assigned To Areas (Default = 1,2)	1 = Area "A" 2 = Area "B"	Page 57

Keypad Button Options

P72E	1-8E	Keypad Button Options (Default = All 1,2,3)	1 = <CHIME> or <CONTROL><PROGRAM> Button Enabled 2 = <BYPASS> Button Enabled 3 = <PANIC> Button Enabled 4 = Delayed panic on <PANIC> Button 5 = <1> + <3> or <CONTROL> + <CHIME> Panic Alarm Enabled 6 = <4> + <6> or <A> + <B> Fire Alarm Enabled 7 = <7> + <9> or <B> + <CHIME> Medical Alarm Enabled 8 = Stay Armed Beep to Keypad	Page 58

Alarm Beeps & LED Control to Keypad

P73E	1-8E	Keypad Beep/LED Options (Default = 5)	1 = Mains Fail Beeps Keypad Buzzer 2 = Fuse Failure Beeps Keypad Buzzer 3 = Battery Low Beeps Keypad Buzzer 4 = Telephone Line Failure Beeps Keypad Buzzer 5 = System Tamper Alarm Beeps Keypad Buzzer 6 = Receiver Fail Beeps Keypad Buzzer 7 = Turn Off Keypad LED's when Armed 8 = Turn Off Keypad & Backlight LED's on Mains Failure	Page 59

Keypad "ARM" Button Area Assignment

P74E	1-8E	Keypad "ARM" Button Area (Default = 1)	1 = "ARM" Button assigned to Area "A" 2 = "ARM" Button assigned to Area "B"	Page 59

"Fire (486)" Alarm to Outputs

P85E	1-8E	Keypad "Fire (486)" Alarm to Outputs (Default = 1,2)	1 = The Keypad "Fire (486)" Alarm will turn on Output # 1 2 = The Keypad "Fire (486)" Alarm will turn on Output # 2 3 = The Keypad "Fire (486)" Alarm will turn on Output # 3 4 = The Keypad "Fire (486)" Alarm will turn on Output # 4 5 = The Keypad "Fire (486)" Alarm will turn on Output # 5 6 = The Keypad "Fire (486)" Alarm will turn on Output # 6 7 = The Keypad "Fire (486) Alarm "will turn on Output # 7 8 = The Keypad "Fire (486) Alarm "will turn on Output # 8	Page 64

"Medical (789)" Alarm to Outputs

P86E	1-8E	Keypad "Medical (789)" Alarm to Outputs (Default = 1,2)	1 = The Keypad "Medical (789)" Alarm will turn on Output # 1 2 = The Keypad "Medical (789)" Alarm will turn on Output # 2 3 = The Keypad "Medical (789)" Alarm will turn on Output # 3 4 = The Keypad "Medical (789)" Alarm will turn on Output # 4 5 = The Keypad "Medical (789)" Alarm will turn on Output # 5 6 = The Keypad "Medical (789)" Alarm will turn on Output # 6 7 = The Keypad "Medical (789)" Alarm will turn on Output # 7 8 = The Keypad "Medical (789)" Alarm will turn on Output # 8	Page 64

"Duress" Alarm to Outputs

P87E	1-8E	Keypad "Duress" Alarm to Outputs (Default = All Off)	1 = The Keypad "Duress" Alarm will turn on Output # 1 2 = The Keypad "Duress" Alarm will turn on Output # 2 3 = The Keypad "Duress" Alarm will turn on Output # 3 4 = The Keypad "Duress" Alarm will turn on Output # 4 5 = The Keypad "Duress" Alarm will turn on Output # 5 6 = The Keypad "Duress" Alarm will turn on Output # 6 7 = The Keypad "Duress" Alarm will turn on Output # 7 8 = The Keypad "Duress" Alarm will turn on Output # 8	Page 64

Keypad "Tamper Switch" Alarm to Outputs

P88E	1-8E	Keypad "Tamper Switch" Alarm to Outputs (Default = All Off)	1 = The Keypad "Tamper Switch" Alarm will turn on Output # 1 2 = The Keypad "Tamper Switch" Alarm will turn on Output # 2 3 = The Keypad "Tamper Switch" Alarm will turn on Output # 3 4 = The Keypad "Tamper Switch" Alarm will turn on Output # 4 5 = The Keypad "Tamper Switch" Alarm will turn on Output # 5 6 = The Keypad "Tamper Switch" Alarm will turn on Output # 6 7 = The Keypad "Tamper Switch" Alarm will turn on Output # 7 8 = The Keypad "Tamper Switch" Alarm will turn on Output # 8	Page 64

Keypad "Wrong Code" Alarm to Outputs

P89E	1-8E	Keypad "Wrong Code" Alarm to Outputs (Default = All Off)	1 = The Keypad "Wrong Code" Alarm will turn on Output # 1 2 = The Keypad "Wrong Code" Alarm will turn on Output # 2 3 = The Keypad "Wrong Code" Alarm will turn on Output # 3 4 = The Keypad "Wrong Code" Alarm will turn on Output # 4 5 = The Keypad "Wrong Code" Alarm will turn on Output # 5 6 = The Keypad "Wrong Code" Alarm will turn on Output # 6 7 = The Keypad "Wrong Code" Alarm will turn on Output # 7 8 = The Keypad "Wrong Code" Alarm will turn on Output # 8	Page 64

Manually Operated Panic Alarm Beeps to Keypads

P90E **1-8E** **Panic Alarm Beeps to Keypads** Page 64
(Default = All On)

1 = A Panic Alarm at the selected keypad will Beep KP # 1
2 = A Panic Alarm at the selected keypad will Beep KP # 2
3 = A Panic Alarm at the selected keypad will Beep KP # 3
4 = A Panic Alarm at the selected keypad will Beep KP # 4
5 = A Panic Alarm at the selected keypad will Beep KP # 5
6 = A Panic Alarm at the selected keypad will Beep KP # 6
7 = A Panic Alarm at the selected keypad will Beep KP # 7
8 = A Panic Alarm at the selected keypad will Beep KP # 8

Manually Operated Fire Alarm Beeps to Keypads

P91E **1-8E** **Fire Alarm Beeps to Keypads** Page 65
(Default = All On)

1 = A Fire Alarm at the selected keypad will Beep KP # 1
2 = A Fire Alarm at the selected keypad will Beep KP # 2
3 = A Fire Alarm at the selected keypad will Beep KP # 3
4 = A Fire Alarm at the selected keypad will Beep KP # 4
5 = A Fire Alarm at the selected keypad will Beep KP # 5
6 = A Fire Alarm at the selected keypad will Beep KP # 6
7 = A Fire Alarm at the selected keypad will Beep KP # 7
8 = A Fire Alarm at the selected keypad will Beep KP # 8

Manually Operated Medical Alarm Beeps to Keypads

P92E **1-8E** **Medical Alarm Beeps to Keypads** Page 65
(Default = All On)

1 = A Medical Alarm at the selected keypad will Beep KP # 1
2 = A Medical Alarm at the selected keypad will Beep KP # 2

Keypad "ARM" Button Area Options

P75E **1-8E** **Keypad "ARM" Button Opts.** Page 60
(Default = 1,7)

1 = "ARM" Button can Arm
2 = "ARM" Button can Stay Mode Arm
3 = "ARM" Button can Disarm at All Times
4 = "ARM" Button can Disarm Stay Mode at All Times
5 = "ARM" Button can Reset Alarms
6 = "ARM" Button can Arm Latchkey Mode
7 = "ARM" Button can Disarm During Exit Delay
8 = "ARM" Button can Disarm Stay Mode During Exit Delay

Keypad "STAY" Button Area Assignment

P76E **1-8E** **Keypad "STAY" Button Area** Page 60
(Default = 1)

1 = "STAY" Button assigned to Area "A"
2 = "STAY" Button assigned to Area "B"

Keypad "STAY" Button Area Options

P77E **1-8E** **Keypad "STAY" Button Opts.** Page 60
(Default K/P 1,2,3,4,6,7,8 = 2,8)
(Default K/P 5 = 2,4)

1 = "STAY" Button can Arm
2 = "STAY" Button can Stay Mode Arm
3 = "STAY" Button can Disarm at All Times
4 = "STAY" Button can Disarm Stay Mode at All Times
5 = "STAY" Button can Reset Alarms
6 = "STAY" Button can Arm Latchkey Mode
7 = "STAY" Button can Disarm During Exit Delay
8 = "STAY" Button can Disarm Stay Mode During Exit Delay

Keypad "A" Button (Large LCD KP only) Area Assignment

P78E **1-8E** **Keypad "A" Button Area** Page 61
(Default = 1)

1 = "A" Button assigned to Area "A"
2 = "A" Button assigned to Area "B"

Keypad "A" Button (Large LCD KP only) Area Options

P79E **1-8E** **Keypad "A" Button Opts.** Page 61
(Default = 1,7)

1 = "A" Button can Arm
2 = "A" Button can Stay Mode Arm
3 = "A" Button can Disarm at All Times
4 = "A" Button can Disarm Stay Mode at All Times
5 = "A" Button can Reset Alarms
6 = "A" Button can Arm Latchkey Mode
7 = "A" Button can Disarm During Exit Delay
8 = "A" Button can Disarm Stay Mode During Exit Delay

Keypad "B" Button (Large LCD KP only) Area Assignment

P80E **1-8E** **Keypad "B" Button Area** Page 62
(Default = 2)

1 = "B" Button assigned to Area "A"
2 = "B" Button assigned to Area "B"

Keypad "B" Button (Large LCD KP only) Area Options

P81E **1-8E** **Keypad "B" Button Opts.** Page 62
(Default = All Off)

1 = "B" Button can Arm
2 = "B" Button can Stay Mode Arm
3 = "B" Button can Disarm at All Times
4 = "B" Button can Disarm Stay Mode at All Times
5 = "B" Button can Reset Alarms
6 = "B" Button can Arm Latchkey Mode
7 = "B" Button can Disarm During Exit Delay
8 = "B" Button can Disarm Stay Mode During Exit Delay

Keypads Continued

Keypad "B" Button (Large LCD KP only) Area Options

P81E 1-8E **Keypad "B" Button Opts.** 1 = "B" Button can Arm Page 62
(Default = All Off)
2 = "B" Button can Stay Mode Arm
3 = "B" Button can Disarm at All Times
4 = "B" Button can Disarm Stay Mode at All Times
5 = "B" Button can Reset Alarms
6 = "B" Button can Arm Latchkey Mode
7 = "B" Button can Disarm During Exit Delay
8 = "B" Button can Disarm Stay Mode During Exit Delay

Keypad to Output Mask (for Access Control)

P82E 1-8E **Keypad to Output Mask** Page 63
(Default KP's 162= 3,4 On) 1 = The Keypad is linked to Output # 1
(Default KP 3 = 3 On) 2 = The Keypad is linked to Output # 2
(Default KP 4 = 4 On) 3 = The Keypad is linked to Output # 3
(Default KP 5 = 5 On) 4 = The Keypad is linked to Output # 4
(Default KP 6 = 6 On) 5 = The Keypad is linked to Output # 5
(Default KP 7 = 7 On) 6 = The Keypad is linked to Output # 6
(Default KP 8 = 8 On) 7 = The Keypad is linked to Output # 7
8 = The Keypad is linked to Output # 8

"Control" Button to Output Mask (for App Control)

P83E 1-8E **Keypad "Control" Button to Output Mask** Page 63
(Default KP's 1-7 = All Off) 1 = The Keypad "Control" Button is linked to Output # 1
(Default KP 8 = 3,4,5,6,7,8 On) 2 = The Keypad "Control" Button is linked to Output # 2
3 = The Keypad "Control" Button is linked to Output # 3
4 = The Keypad "Control" Button is linked to Output # 4
5 = The Keypad "Control" Button is linked to Output # 5
6 = The Keypad "Control" Button is linked to Output # 6
7 = The Keypad "Control" Button is linked to Output # 7
8 = The Keypad "Control" Button is linked to Output # 8

"Panic" Button or "163" Alarm to Outputs

P84E 1-8E **Keypad "Panic" Button or "163" Alarm to Outputs** Page 63
(Default = 1,2) 1 = The Keypad "Panic" Button or "163" will turn on Output # 1
2 = The Keypad "Panic" Button or "163" will turn on Output # 2
3 = The Keypad "Panic" Button or "163" will turn on Output # 3
4 = The Keypad "Panic" Button or "163" will turn on Output # 4
5 = The Keypad "Panic" Button or "163" will turn on Output # 5
6 = The Keypad "Panic" Button or "163" will turn on Output # 6
7 = The Keypad "Panic" Button or "163" will turn on Output # 7
8 = The Keypad "Panic" Button or "163" will turn on Output # 8
3 = A Medical Alarm at the selected keypad will Beep KP # 3
4 = A Medical Alarm at the selected keypad will Beep KP # 4
5 = A Medical Alarm at the selected keypad will Beep KP # 5
6 = A Medical Alarm at the selected keypad will Beep KP # 6
7 = A Medical Alarm at the selected keypad will Beep KP # 7
8 = A Medical Alarm at the selected keypad will Beep KP # 8

Wrong Code or Keypad Tamper Switch Alarm Beeps to Keypads

P93E 1-8E **Wrong Code or Keypad Tamper Switch Alarm Beeps to Keypads** Page 65
(Default = All On) 1 = A Wrong Code or KP Tamper Alarm at Keypad 1-8 will Beep KP # 1
2 = A Wrong Code or KP Tamper Alarm at Keypad 1-8 will Beep KP # 2
3 = A Wrong Code or KP Tamper Alarm at Keypad 1-8 will Beep KP # 3
4 = A Wrong Code or KP Tamper Alarm at Keypad 1-8 will Beep KP # 4
5 = A Wrong Code or KP Tamper Alarm at Keypad 1-8 will Beep KP # 5
6 = A Wrong Code or KP Tamper Alarm at Keypad 1-8 will Beep KP # 6
7 = A Wrong Code or KP Tamper Alarm at Keypad 1-8 will Beep KP # 7
8 = A Wrong Code or KP Tamper Alarm at Keypad 1-8 will Beep KP # 8

Chime Alarm Beep Time at a Keypad

P94E 1-8E **The Time the Chime Alarm will sound at Each Keypad** - Value =0-255 1/10th sec Page 65
(Default = 20 which is 2 Seconds)

Proximity Reader LED to Output Mapping

P98E 1-8E **Proximity Reader LED to Output Mapping** Page 65
(Default KP's 162 = None) 1 = Proximity Reader 1-8 LED will follow the state of Output # 1
(Default KP 3 = 3 On) 2 = Proximity Reader 1-8 LED will follow the state of Output # 2
(Default KP 4 = 4 On) 3 = Proximity Reader 1-8 LED will follow the state of Output # 3
(Default KP 5 = 5 On) 4 = Proximity Reader 1-8 LED will follow the state of Output # 4
(Default KP 6 = 6 On) 5 = Proximity Reader 1-8 LED will follow the state of Output # 5
(Default KP 7 = 7 On) 6 = Proximity Reader 1-8 LED will follow the state of Output # 6
(Default KP 8 = 8 On) 7 = Proximity Reader 1-8 LED will follow the state of Output # 7
8 = Proximity Reader 1-8 LED will follow the state of Output # 8

Learn Proximity Reader Keypad Address Number

P99E 1-8E **Learn Proximity Reader Keypad Address Number** - Value = Keypad Address 1-8 Page 66

Key-switches

Key-switch Area Assignment

P111E **1-2E** **K/S 1 & 2 assigned to Areas A or B -** Page 66
(1 = K/S # 1) (Default K/S # 1 = 1)
(2 = K/S # 2) (Default K/S # 2 = 2)

1 = Assigned to Area "A"
2 = Assigned to Area "B"

Key-switch Access & Operational Options

P112E **1-2E** **K/S 1 & 2 Access & Operational Options** Page 66
(1 = K/S # 1) (Default = All Off)
(2 = K/S # 2)

1 = K/S can Arm Area
2 = K/S can arm Stay Mode
3 = K/S can Disarm Area
4 = K/S can disarm Stay Mode
5 = K/S has Security Guard Options
6 = K/S will Arm Latchkey Mode
7 = Key-switch is N/O (If turned off the K/S is N/C)
8 = Key-switch is Momentary (If turned off the K/S is Latching)

Zones

Programming Zones to Areas

P121E **1-16E** **Assigning Zones to Areas A or B** Page 67
(Default = 1)

1 = Assigned to Area "A"
2 = Assigned to Area "B"

Programming Zone Options A

P122E **1-16E** **Programming Zone Options A** Page 67
(Default Zone 1-8 = 1,6,7,8)
(Default Zone 9-16 = 1,5,6,7,8)

1 = Zone is Active
2 = Zone is N/O (Off = N/C)
3 = Not an Exit Delay Zone
4 = Keypad Zone
5 = Zone is a Radio Zone
6 = Zone is a Stay Mode Zone
7 = Zone can be Manually Bypassed
8 = Zone can be Auto-Bypassed

Programming Zone Options B

P123E **1-16E** **Programming Zone Options B** Page 68
(Default = All Off)

1 = Zone is a Handover Zone
2 = Zone is a Two Trigger Zone
3 = Zone is a 24 Hour Zone
4 = Zone is a 24 Hour Auto-reset Zone
5 = Zone is a 24 Hour Fire Zone
6 = Spare
7 = Zone is a Chime Zone
8 = Zone is a Permanent Chime Zone

Programming Zone Options C

P124E **1-16E** **Programming Zone Options C** Page 69
(Default = 2)

1 = Can Arm if Zone is not Ready
2 = Will Send Multiple Reports via Dialler
3 = Sensor-Watch Zone
4 = Zone is on Soak Test
5 = Zone will report to Area B Account Number
6 = Zone will Not Report 24 hour Alarms via Dialler
7 = Pulse Output on Kiss-off Following an alarm
8 = Exit Terminator

Programming Zone EOL (End-of-line) Options

P125E **1-8E** **Programming Zone EOL Options** Page 70
(Default = 3)

0 = Short Circuit
1 = 1k
2 = 1k5
3 = 2k2
4 = 3k3
5 = 3k9
6 = 4k7
7 = 5k6
8 = 6k8
9 = 10k
10 = 12k
11 = 22k
12 = 2k2 / 4k7
13 = 3k3 / 6k8
14 = 2k2 / 4k7 / 8k2
15 = 4k7 / 8k2

Programming Zone Response

PI26E **1-8E** **Programming Zone Response** (Default = 9)

1 to 8 Vibration mode Page 70
(Zone EOL-PI25E, for Vibration Mode MUST be type 3 only)
1 = highest and 8 is lowest sensitivity level.

9 to 26 Normal zone mode
Response time = approx 200ms –1sec

Programming the Radio Zone Detector Type

PI27E **1-16E** **Programming the Radio Zone Type from the List** - Value = 1-35 Page 71
(Default = 4)

0 = Generic
1 = Crow Merlin PIR (supervised signal ignored)
2 = Crow Merlin PIR (supervised signal active)
3 = Freelink with checksum (supervised signal active)
4 = Freelink with checksum (non-supervised)
5 = Crow AE Series Battery low
6 = Crow AE Radio Reed Switch
11 = Ness Devices battery Low
12 = Ness Radio Reed Switch
31 = Visonic K900 Radio PIR
32 = Visonic Powercode (supervised signal ignored)
33 = Visonic Powercode (supervised signal active)
34 = Siemens (supervised signal ignored)
35 = Siemens (supervised signal active)

Armed Zone Alarms to Outputs

PI28E **1-16E** **Armed Zone Alarms to Output** Page 72
(Default = 1,2)

1 = A Zone Alarm will Turn On Output # 1
2 = A Zone Alarm will Turn On Output # 2
3 = A Zone Alarm will Turn On Output # 3
4 = A Zone Alarm will Turn On Output # 4
5 = A Zone Alarm will Turn On Output # 5
6 = A Zone Alarm will Turn On Output # 6
7 = A Zone Alarm will Turn On Output # 7
8 = A Zone Alarm will Turn On Output # 8

Armed Stay Mode Zone Alarms to Outputs

PI29E **1-16E** **Armed Stay Mode Zone Alarms to Output** Page 72
(Default = 1,2)

1 = A Stay Mode Zone Alarm will Turn On Output # 1
2 = A Stay Mode Zone Alarm will Turn On Output # 2
3 = A Stay Mode Zone Alarm will Turn On Output # 3
4 = A Stay Mode Zone Alarm will Turn On Output # 4
5 = A Stay Mode Zone Alarm will Turn On Output # 5
6 = A Stay Mode Zone Alarm will Turn On Output # 6
7 = A Stay Mode Zone Alarm will Turn On Output # 7
8 = A Stay Mode Zone Alarm will Turn On Output # 8

24 Hour Zone Alarms to Outputs

PI30E **1-16E** **24 Hour Zone Alarms to Output** Page 72
(Default = 1,2)

1 = A 24 Hour Zone Alarm will Turn On Output # 1
2 = A 24 Hour Zone Alarm will Turn On Output # 2
3 = A 24 Hour Zone Alarm will Turn On Output # 3
4 = A 24 Hour Zone Alarm will Turn On Output # 4

5 = A 24 Hour Zone Alarm will Turn On Output # 5
6 = A 24 Hour Zone Alarm will Turn On Output # 6
7 = A 24 Hour Zone Alarm will Turn On Output # 7
8 = A 24 Hour Zone Alarm will Turn On Output # 8

Chime Zone Alarms to Outputs

P131E 1-16E Chime Zone Alarms to Output Page 72
(Default = All Off)
1 = A Chime Zone Alarm will Turn On Output # 1
2 = A Chime Zone Alarm will Turn On Output # 2
3 = A Chime Zone Alarm will Turn On Output # 3
4 = A Chime Zone Alarm will Turn On Output # 4
5 = A Chime Zone Alarm will Turn On Output # 5
6 = A Chime Zone Alarm will Turn On Output # 6
7 = A Chime Zone Alarm will Turn On Output # 7
8 = A Chime Zone Alarm will Turn On Output # 8

Zone Tamper Alarms to Outputs

P132E 1-16E Zone Tamper Alarms to Output Page 73
(Default = 1,2)
1 = A Zone Tamper Alarm will Turn On Output # 1
2 = A Zone Tamper Alarm will Turn On Output # 2
3 = A Zone Tamper Alarm will Turn On Output # 3
4 = A Zone Tamper Alarm will Turn On Output # 4
5 = A Zone Tamper Alarm will Turn On Output # 5
6 = A Zone Tamper Alarm will Turn On Output # 6
7 = A Zone Tamper Alarm will Turn On Output # 7
8 = A Zone Tamper Alarm will Turn On Output # 8

Armed Zone Alarm Beeps to Keypads

P134E 1-16E Armed Zone Alarm Beeps to Keypads Page 73
(Default = All On)
1 = An Armed Zone Alarm will Beep Keypad #1
2 = An Armed Zone Alarm will Beep Keypad #2
3 = An Armed Zone Alarm will Beep Keypad #3
4 = An Armed Zone Alarm will Beep Keypad #4
5 = An Armed Zone Alarm will Beep Keypad #5
6 = An Armed Zone Alarm will Beep Keypad #6
7 = An Armed Zone Alarm will Beep Keypad #7
8 = An Armed Zone Alarm will Beep Keypad #8

Stay Mode Zone Alarm Beeps to Keypads

P135E 1-16E Stay Mode Zone Alarm Beeps to Keypads Page 73
(Default = All On)
1 = A Stay Mode Zone Alarm will Beep Keypad #1
2 = A Stay Mode Zone Alarm will Beep Keypad #2
3 = A Stay Mode Zone Alarm will Beep Keypad #3
4 = A Stay Mode Zone Alarm will Beep Keypad #4
5 = A Stay Mode Zone Alarm will Beep Keypad #5
6 = A Stay Mode Zone Alarm will Beep Keypad #6
7 = A Stay Mode Zone Alarm will Beep Keypad #7
8 = A Stay Mode Zone Alarm will Beep Keypad #8

24 Hour Zone Alarm Beeps to Keypads

P136E 1-16E 24 Hour Zone Alarm Beeps to Keypads Page 73
(Default = All On)
1 = A 24 Hour Zone Alarm will Beep Keypad #1
2 = A 24 Hour Zone Alarm will Beep Keypad #2
3 = A 24 Hour Zone Alarm will Beep Keypad #3
4 = A 24 Hour Zone Alarm will Beep Keypad #4
5 = A 24 Hour Zone Alarm will Beep Keypad #5
6 = A 24 Hour Zone Alarm will Beep Keypad #6
7 = A 24 Hour Zone Alarm will Beep Keypad #7
8 = A 24 Hour Zone Alarm will Beep Keypad #8

Chime Zone Alarm Beeps to Keypads

P137E 1-16E Chime Zone Alarm Beeps to Keypads Page 73
(Default = All Off)
1 = A Chime Zone Alarm will Beep Keypad #1
2 = A Chime Zone Alarm will Beep Keypad #2
3 = A Chime Zone Alarm will Beep Keypad #3
4 = A Chime Zone Alarm will Beep Keypad #4
5 = A Chime Zone Alarm will Beep Keypad #5
6 = A Chime Zone Alarm will Beep Keypad #6
7 = A Chime Zone Alarm will Beep Keypad #7
8 = A Chime Zone Alarm will Beep Keypad #8

Zone Tamper Alarm Beeps to Keypads

P139E 1-16E Zone Tamper Alarm Beeps to Keypads Page 74
(Default = All On)
1 = A Zone Tamper Alarm will Beep Keypad #1
2 = A Zone Tamper Alarm will Beep Keypad #2
3 = A Zone Tamper Alarm will Beep Keypad #3
4 = A Zone Tamper Alarm will Beep Keypad #4
5 = A Zone Tamper Alarm will Beep Keypad #5
6 = A Zone Tamper Alarm will Beep Keypad #6
7 = A Zone Tamper Alarm will Beep Keypad #7
8 = A Zone Tamper Alarm will Beep Keypad #8

Zones Continued

Radio Supervise Alarm Beeps to Keypads

P140E 1-16E Radio Supervise Alarm Beeps to Keypads Page 74

(Default = All Off)

1 = A Radio Supervise Alarm will Beep Keypad #1
2 = A Radio Supervise Alarm will Beep Keypad #2
3 = A Radio Supervise Alarm will Beep Keypad #3
4 = A Radio Supervise Alarm will Beep Keypad #4
5 = A Radio Supervise Alarm will Beep Keypad #5
6 = A Radio Supervise Alarm will Beep Keypad #6
7 = A Radio Supervise Alarm will Beep Keypad #7
8 = A Radio Supervise Alarm will Beep Keypad #8

Zone Sensor-watch Alarm Beeps to Keypads

P141E 1-16E Zone Sensor-watch Alarm Beeps to Keypads Page 74

(Default = All Off)

1 = A Zone Sensor-watch Alarm will Beep Keypad #1
2 = A Zone Sensor-watch Alarm will Beep Keypad #2
3 = A Zone Sensor-watch Alarm will Beep Keypad #3
4 = A Zone Sensor-watch Alarm will Beep Keypad #4
5 = A Zone Sensor-watch Alarm will Beep Keypad #5
6 = A Zone Sensor-watch Alarm will Beep Keypad #6
7 = A Zone Sensor-watch Alarm will Beep Keypad #7
8 = A Zone Sensor-watch Alarm will Beep Keypad #8

Armed Zone Entry Delay Beeps to Keypads

P142E 1-16E Armed Zone Entry Delay Beeps to Keypads Page 74

(Default = 162)

1 = Armed Zone Entry Delay will Beep Keypad #1
2 = Armed Zone Entry Delay will Beep Keypad #2
3 = Armed Zone Entry Delay will Beep Keypad #3
4 = Armed Zone Entry Delay will Beep Keypad #4
5 = Armed Zone Entry Delay will Beep Keypad #5
6 = Armed Zone Entry Delay will Beep Keypad #6
7 = Armed Zone Entry Delay will Beep Keypad #7
8 = Armed Zone Entry Delay will Beep Keypad #8

Stay Mode Entry Delay Beeps to Keypads

P143E 1-16E Stay Mode Entry Delay Beeps to Keypads Page 74

(Default = 162)

1 = Stay Mode Entry Delay will Beep Keypad #1
2 = Stay Mode Entry Delay will Beep Keypad #2
3 = Stay Mode Entry Delay will Beep Keypad #3
4 = Stay Mode Entry Delay will Beep Keypad #4
5 = Stay Mode Entry Delay will Beep Keypad #5
6 = Stay Mode Entry Delay will Beep Keypad #6
7 = Stay Mode Entry Delay will Beep Keypad #7
8 = Stay Mode Entry Delay will Beep Keypad #8

Armed Zone Entry Delay Times

P144E 1-16E Armed Zone Entry Delay Times - Value 0-9999 seconds Page 74
(Default Zone # 1 = 20 Seconds, Zones # 2-16 = 0)

Stay Mode Entry Delay Times

P145E 1-16E Stay Mode Entry Delay Times - Value 0-9999 seconds Page 75
(Default Zones # All = 20 Seconds)

Zone Re-trigger Count

P146E 1-16E Zone Re-Trigger Count - Value 0-15 (Maximum number of times a zone can re-trigger Page 75
(Default = 0) during armed state. 0=Unlimited Triggers)

Zone Alarm 4+2 Reporting Codes

P147E 1-16E Zone Alarm 4+2 Reporting Code - Two digit value from 00-FF Page 88

Zone Alarm 4+2 Restore Reporting Codes

P148E 1-16E Zone Alarm Restore 4+2 Code - Two digit value from 00-FF Page 88

Zone Near Alarm 4+2 Reporting Codes

P149E 1-16E Zone Near Alarm 4+2 Reporting Code - Two digit value from 00-FF Page 88

Zone Near Alarm 4+2 Restore Reporting Codes

P150E 1-16E Zone Near Alarm Restore 4+2 Code - Two digit value from 00-FF Page 88

Zone Intrusion Verified Alarm 4+2 Reporting Codes

P151E 1-16E Zone Intrusion Verified Alarm 4+2 Reporting Code - Two digit value from 00-FF Page 88

Zone Intrusion Verified Alarm 4+2 Restore Reporting Codes

P152E 1-16E Zone Intrusion Verified Alarm Restore 4+2 Code - Two digit value from 00-FF Page 88

Zone Bypass Alarm 4+2 Reporting Codes

P155E 1-16E Zone Bypass Alarm 4+2 Reporting Code - Two digit value from 00-FF Page 88

Zone Bypass 4+2 Restore Reporting Codes

P156E 1-16E Zone Bypass Restore 4+2 Code - Two digit value from 00-FF Page 88

(See Page 110 for zone alarm SIA reporting codes)

Zone Alarm Contact ID Reporting Codes

P157E 1-16E Zone Alarm Contact ID Reporting Code - (Default = 130) Page 75

Zone Near Alarm Contact ID Reporting Codes

P158E 1-16E Zone Near Alarm Contact ID Reporting Code - (Default = 138) Page 75

Zone Intrusion Verified Alarm Contact ID Reporting Codes

P159E 1-16E Zone Intrusion Verified Alarm Contact ID Reporting Code - (Default = 139) Page 75

Zone Alarm Voice Message Number

P160E 1-16E Zone Alarm Voice Message Number - Value-0-99 (Default = 1) Page 75

Away Zone Entry Delay to Outputs

P161E 1-16E Away Zone Entry Delay to Outputs Page 75

(Default = All Off)

1 = Armed Zone Entry Delay to output #1
2 = Armed Zone Entry Delay to output #2
3 = Armed Zone Entry Delay to output #3
4 = Armed Zone Entry Delay to output #4
5 = Armed Zone Entry Delay to output #5
6 = Armed Zone Entry Delay to output #6
7 = Armed Zone Entry Delay to output #7
8 = Armed Zone Entry Delay to output #8

Stay Mode Entry Delay to Outputs

P162E 1-16E Stay Mode Entry Delay Beeps to Outputs Page 75

(Default = All Off)

1 = Stay Mode Entry Delay to output #1
2 = Stay Mode Entry Delay to output #2
3 = Stay Mode Entry Delay to output #3
4 = Stay Mode Entry Delay to output #4
5 = Stay Mode Entry Delay to output #5
6 = Stay Mode Entry Delay to output #6
7 = Stay Mode Entry Delay to output #7
8 = Stay Mode Entry Delay to output #8

Sensor-Watch Timer

P163E 1-16E Sensor-Watch Timer - 0-9999 Minutes (Default = 7200 minutes [120 Hours]) Page 76

Enrolling Radio Zone Codes

P164E 1-16E Learn Radio Zone Codes Page 76

Delete a Specific Radio Zone Code

P165E 1-16E Delete a Specific Radio Zone Code Page 76

Find Radio Zone memory Location

P166E 0E This will find the zone # of any Radio Zone code stored in the panel Page 76

Only press 0E when using LED Keypad.

Zone Near Alarm to Outputs

P167E 1-16E Zone Near Alarm to Outputs Page 76

(Default = All Off)

1 = Zone Near Alarm to output #1
2 = Zone Near Alarm to output #2
3 = Zone Near Alarm to output #3
4 = Zone Near Alarm to output #4
5 = Zone Near Alarm to output #5
6 = Zone Near Alarm to output #6
7 = Zone Near Alarm to output #7
8 = Zone Near Alarm to output #8

Zone Confirmed Alarm to Outputs

P168E 1-16E Zone Confirmed Alarm to Outputs Page 76

(Default = All Off)

1 = Zone Confirmed Alarm to output #1
2 = Zone Confirmed Alarm to output #2
3 = Zone Confirmed Alarm to output #3
4 = Zone Confirmed Alarm to output #4
5 = Zone Confirmed Alarm to output #5
6 = Zone Confirmed Alarm to output #6
7 = Zone Confirmed Alarm to output #7
8 = Zone Confirmed Alarm to output #8

Time Zones

Programming Holidays

P170E 1-8E **Holidays 1-8 Days -** Value = DDMMYY Page 77

Programming Time Zone Days

P171E 1-8E **Time Zones 1-8 Days** Page 77

(Default = All Off)

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday
8 = Invert

Programming Time Zone Start & End Times

P172E 1-8E **Time Zones 1-8 Start Time -** Value 0000-2359 (Default = 0000) Page 77

P173E 1-8E **Time Zones 1-8 End Time -** Value 0000-2359 (Default = 0000) Page 77

Time Zone Options

P174E 1-8E **Time Zone 1-8 Options** Page 77

(Default = All Off)

1 = Ignore Holidays
2-8 = Spare

Dialler

Dialler Programming Options

P175E 1E **Dialler options** Page 78

(Default = 7)

1 = Dialler is Enabled
2 = Fax Defeat
3 = Disable Telephone Line Monitoring
4 = DTMF or Pulse Dial **(For DTMF, 465 must both be OFF)**
5 = DTMF or Reverse Pulse Dial **(For DTMF, 465 must both be OFF)**
6 = Send long DTMF tones during dialing
7 = Auto Detect Modem Mode
8 = Bell 103 or V21

Dialler Programming Options 2

P175E 2E **Dialler options 2** Page 78

(Default = 1)

1 = Step number on each call
2 = Upload/Download use callback
3 = Upload/Download only if disarmed
4 = Test calls only if armed
5 = Test Time Period is in days
6 = Hold line open following Domestic/Voice report for DTMF control
7 = First to Open Last to Close Reporting
8 = Answer After 1 ring for Two Way Voice Call-back Mode

Auto-Answer Ring Count

P175E 3E **Auto-Answer Ring Count -** Value 0-99 (Default = 12) Page 79

Test Call Start Time

P175E 4E **Test Call Start Time -** Value 0000-2359 (Default = 0200) Page 79

Test Call Time Period

P175E 5E **Test Time Call Period -** Value 0-255 Hours: 0 = No Test (Default = 24) Page 79

Keypad Listen-in Options

P175E 6E **Keypad Listen-in Options** Page 79

(Default = 1,2,3,4,5,6,7)

1 = Enabled During Dialling in Disarm State only
2 = Enabled During Dialling in Armed State only
3 = Enabled During Dialling in Stay Mode State only
4 = Enabled Throughout the call in Disarm State only
5 = Enabled Throughout the call in Armed State only
6 = Enabled Throughout the call in Stay Mode State only
7 = Listen-in Enabled when the panel answers a call
8 = Enabled at All Times

Output # 1 Listen-in Options

P175E 7E **Output # 1 Listen-in Options** Page 80

(Default = All Off)

1 = Enabled During Dialling in Disarm State only
2 = Enabled During Dialling in Armed State only
3 = Enabled During Dialling in Stay Mode State only
4 = Enabled Throughout the call in Disarm State only
5 = Enabled Throughout the call in Armed State only
6 = Enabled Throughout the call in Stay Mode State only
7 = Listen-in Enabled when the panel answers a call
8 = Enabled at All Times

Dialler Continued & Telephone Numbers

Dialling Pre-fix Number

P175E 8E **Dialling Pre-fix Number -** Value 1-16 Digits (Default = 0) Page 80

"Panic" Alarm Contact ID Reporting Code

P175E 9E **"Panic" Alarm CID Reporting Code** - (Default=120) Page 80

"Fire" Alarm Contact ID Reporting Code

P175E 10E **"Fire" Alarm CID Reporting Code** - (Default=110) Page 80

"Medical" Alarm Contact ID Reporting Code

P175E 11E **"Medical" Alarm CID Reporting Code** - (Default=100) Page 80

Output "Command Control" Code Number

P175E 12E **Output Command Control code** - Value 1-4 digit code (1-9999) (Default = 0) Page 81

Microphone On/Off "Command Control" Code Number

P175E 13E **Microphone Command Control code** - Value 1-4 digit code (1-9999) (Default = 0) Page 81

Dialler Acknowledge Code

P175E 14E **Voice/Domestic Acknowledge Code** - Value 1-4 digit code (1-9999) (Default = 0) Page 81

Force Test Call Code

P175E 15E **Force Test Call Code** - Value 1-4 digit code (1-9999) (Default = 0, Feature disabled) Page 81

Programming Voice Board Messages

P176E 1E **Keypad or Radio "Panic" Alarm Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 2E **"Fire" Alarm Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 3E **"Medical" Alarm Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 4E **"Mains Failure" Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 5E **"Mains Restore" Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 6E **"Battery Low" Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 7E **"Battery Restored" Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 8E **"Tamper" (Zone/Radio/System) Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 9E **"Duress Alarm" Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 10E **"Latchkey Disarm" Voice Message Number -** Value 0-99 (Default = 0) Page 81
P176E 11E **"Manual Test Initiated" Voice Message Number -** Value 0-99 (Default = 0) Page 81

Telephone Numbers

Programming Telephone Numbers

P181E 1-8E **Programming Telephone Numbers -** Value 1-16 Digits (Default = 0) Page 82

Telephone Number Reporting Formats

P182E 1-8E **Telephone Number Reporting Formats** Page 82
(Default #1-4 = 1)
(Default #5-8 = 2)

1 = Contact ID
2 = Domestic Dial
3 = Pager
4 = Speech Dialler
5 = 4+2 10pps (Handshake 1400/ Tone 1900)
6 = 4+2 10pps (Handshake 2300/ Tone 1800)
7 = 4+2 20pps (Handshake 1400/ Tone 1900)
8 = 4+2 20pps (Handshake 2300/ Tone 1800)
9 = 4+2 DTMF (with Checksum)
10 = SIA Format
11 = SIA SlowFormat

Telephone Number Reporting Options

P183E 1-8E **Telephone Number Reporting Options** Page 83
(Default = 1,2)

1 = Stop Dialling if Kissed off
2 = Monitor Call Progress
3 = Blind Dial
4 = Use Group Numbers for Contact ID Reporting
5 = Stay On-line after Alarm report for two way voice
6 = Auto Kiss-off for Voice/Domestic Reporting
7 = Use the Dialling Pre-fix
8 = Is to be used as the "Call-back" Number

Maximum Dial Attempts per Telephone Number

P184E 1-8E **Maximum Dial Attempts per Telephone Number** - Value 0-99 (Default #1-4 = 20)(#5-8 = 2) Page 84

Dialler Reporting Options A

P186E 1-8E **Dialler Options A** Page 84
(Default = All On)

1 = Report Mains Failure
2 = Report Battery low
3 = Report Radio Battery Low

4 = Report Line Fail
5 = Report System Tamper
6 = Report Keypad Tamper
7 = Report Zone Tamper
8 = Report Radio Zone Tamper

Dialler Reporting Options B

P187E 1-8E **Dialler Options B** (Default = All On) — Page 85

1 = Report Duress Alarm
2 = Report Supervised Radio Alarm
3 = Report Zone Sensor-watch Alarm
4 = Report Manual Panic Alarm
5 = Report Manual Fire Alarm
6 = Report Manual Medical Alarm
7 = Report Radio Pendant Panic Alarm
8 = Report Zone Bypasses

Dialler Reporting Options C

P188E 1-8E **Dialler Options C** (Default = 1,2,5,6,8) — Page 85

1 = Report Arm/Disarm
2 = Report Stay Mode Arm/Disarm
3 = Report Disarm only after an Activation
4 = Report Stay Mode Disarm only after an Activation
5 = Report Stay Mode Zone Alarms
6 = Report Access to Program Mode
7 = Report 24 Hour Alarms when set to Domestic/Voice mode
8 = Report Zone Restores

Dialler Reporting Options D

P189E 1-8E **Dialler Options D** (Default = 3,4,5) — Page 86

1 = Report Latchkey Disarm
2 = Report Delinquent
3 = Report Tests
4 = Report Fuse Failure
5 = Report Output 1 or 2 Fail
6 = Report RTC Time changed
7 = Report Keypad Buss Trouble
8 = Report RF Interference (Jamming) Detected

Divert Area Events

P192E 1-2E **Divert Area Events** — Page 86
(1=Area A) (Default = All Off)
(2=Area B)

1 = Dial on away arm
2 = Dial on away disarm
3 = Dial on stay arm
4 = Dial on stay disarm
5 = Dial if Key-switch activation
6 = Dial if Time zone activation
7 = Dial if DTMF or PC activation
8 = Dial if keypad "ARM" or "STAY" single button activation

Divert Number Options

P193E 1-2E **Divert Numbers Options** — Page 87
(1=Divert on) (Default = All Off)
(2=Divert off)

1 = Spare
2 = Spare
3 = Blind Dial
4 = Spare
5 = Spare
6 = Spare
7 = Use the Dialling Pre-fix
8 = Spare

Divert Numbers

P194E 1-2E **Divert Numbers** - Value 1-16 Digits (Default = 0) — Page 87
(1=Divert on)
(2=Divert off)

Miscellaneous 4+2 Program Options

Mains & Battery 4+2 Reporting Codes

P195E 1E **Mains Failure 4+2 Code** - Two digit value from 00-FF — Page 89
P195E 2E **Mains Failure restore 4+2 Code** - Two digit value from 00-FF — Page 89
P195E 3E **Low Battery 4+2 Code** - Two digit value from 00-FF — Page 89
P195E 4E **Low Battery Restore 4+2 Code** - Two digit value from 00-FF — Page 89

System Tamper 4+2 Reporting Codes

P195E 5E **4+2 Alarm Code for System Tamper** - Two digit value from 00-FF — Page 89
P195E 6E **4+2 Alarm Code for System Tamper Restore** - Two digit value from 00-FF — Page 89

Remote Arm/Disarm 4+2 Reporting Codes

P195E 7E **4+2 Code for Remote Arming (Full Arm or Stay Mode Arm)**- Two digit value from 00-FF — Page 89
P195E 8E **4+2 Code for Remote Disarm** - Two digit value from 00-FF — Page 89

Duress Alarm 4+2 Reporting Code
P195E 9E **4+2 Duress Alarm Code -** Two digit value from 00-FF Page 89

Automatic Test 4+2 Reporting Code
P195E 10E **4+2 Automatic Test Code -** Two digit value from 00-FF Page 89

Armed by "Arm" Button 4+2 Reporting Code
P195E 11E **4+2 Arm by "Arm" Button Code -** Two digit value from 00-FF Page 89

Stay Mode Arming 4+2 Reporting Code
P195E 12E **4+2 Stay Mode Arming Code -** Two digit value from 00-FF Page 89

Disarmed by "Arm" or "Stay" Button 4+2 Reporting Code
P195E 13E **4+2 Disarm by Arm or Stay Button -** Two digit value from 00-FF Page 89

Armed/Disarmed by "Key-switch" 4+2 Reporting Code
P195E 14E **4+2 Arm by "Key-switch" Code -** Two digit value from 00-FF Page 89
P195E 15E **4+2 Disarm by "Key-switch" Code -** Two digit value from 00-FF Page 89

"Time Zone Arm Failure" 4+2 Reporting Code
P195E 16E **4+2 Time Zone Arm Failure -** Two digit value from 00-FF Page 89

Keypad "Panic" Alarm 4+2 Reporting Code
P195E 17E **Keypad Panic Alarm 4+2 Code -** Two digit value from 00-FF Page 89

Keypad "Panic" Alarm 4+2 Restore Reporting Code
P195E 18E **Keypad Panic Alarm Restore 4+2 Code -** Two digit value from 00-FF Page 89

Keypad "Fire" Alarm 4+2 Reporting Code
P195E 19E **Keypad Fire Alarm 4+2 Code -** Two digit value from 00-FF Page 90

Keypad "Fire" Alarm 4+2 Restore Reporting Code
P195E 20E **Keypad Fire Alarm Restore 4+2 Code -** Two digit value from 00-FF Page 90

Keypad "Medical" Alarm 4+2 Reporting Code
P195E 21E **Keypad Medical Alarm 4+2 Code -** Two digit value from 00-FF Page 90

Keypad "Medical" Alarm 4+2 Restore Reporting Code
P195E 22E **Keypad Medical Alarm Restore 4+2 Code -** Two digit value from 00-FF Page 90

SIA Alarm Report Codes

(SIA event codes are entered by programming a value from the chart on Page 115. For example, to send the SIA "Panic Alarm" code when a keypad panic is generated you must enter a value of "6" at location P197E1E)

Zone Alarm SIA Reporting Codes
P196E 1-16E **Zone Alarm SIA Reporting Code -** (Default value = 1, Alarm Event Code BA) Page 90

"Panic" Alarm SIA Reporting Code
P197E 1E **"Panic" Alarm SIA Reporting Code -** (Default value = 6, Panic Alarm Event Code PA) Page 90

"Fire" Alarm SIA Reporting Code
P197E 2E **"Fire" Alarm SIA Reporting Code -** (Default value = 4, Fire Alarm Event Code FA) Page 90

"Medical" Alarm SIA Reporting Code
P197E 3E **"Medical" Alarm SIA Reporting Code -** (Default value = 5, Medical Alarm Event Code MA) Page 90

Panel Diagnostic & Default Options

Display Panel Software Version Number
P200E 1E Display the Panel Software Version Number Page 91

Display Keypad Address Number
P200E 2E Display Keypad Address Number Page 91

Display Areas Assigned to this Keypad
P200E 3E Display Areas Assigned to this Keypad Page 91

Display Active Time Zones
P200E 4E Display Active Time Zones Page 91

Display Battery Voltage
P200E 5E Display Battery Voltage Page 91

Walk Test Mode
P200E 6E Walk Test Mode Page 91

Write to EEPROM (DTU) Board
P200E 7E Write to EEPROM (DTU) Board Page 91

Read from EEPROM (DTU) Board
P200E 8E Read from EEPROM (DTU) Board Page 91

Restore User & Installer Codes plus Telephone Numbers to Defaults
P200E 9E Restore User/Installer Codes & Telephone #'s to Default Values Page 92

Restore All Factory Defaults
P200E 10E Restore All Factory Defaults Page 92

Clear Alarm Memory Buffer
P200E 11E Clear Alarm Memory Buffer Page 92

Initiate a Call to the Call-back
P200E 12E Initiate a Call to the Call-back Page 92

Read RSSI from Pendants and Wireless Zones
P200E 14E Read RSSI from Pendants and Wireless Zones

The default settings of this panel have been chosen to allow the system to be up and running with a minimum of programming.

Because of this there are normally only a handful of program addresses that need to be changed to get the system fully functional.

As a guide to getting the system up and running as quickly as possible we have summarised the most commonly used addresses for you below.

CODES:
P1E 1-39E Code 1 is P1E1E and is defaulted to "123". Code 2 is P1E2E, etc up to P1E39E for Code 39.

ENABLE DIALLER:
P175E 1E By default the dialler is turned off. To turn on the dialler you must turn on Option 1 at address P175E1E.

TELEPHONE NUMBERS FOR CID REPORTING:
P181E 1-4E The first CID phone number slot is P181E1E and the phone number can be up to 16 digits long. The second slot is P182E2E, etc up to P181E4E giving 4 Different Phone numbers.

TELEPHONE NUMBERS FOR PERSONAL MONITORING:
P181E 5-8E The first Personal phone number slot is P181E5E and the phone number can be up to 16 digits long. The second slot is P182E6E, etc up to P181E8E giving 4 Different Phone numbers.

ACCOUNT CODE:
P62E 1-2E Area "A" Account code is P62E1E and Area "B" Account code is P62E2E.

ARMED ENTRY DELAYS:
P144E 1-16E Zone 1 entry delay is P144E1E and can be a value of 0-9999 seconds, through to Zone 16 entry delay at address P144E16E. A value of "0" makes the zone instant.

STAY ENTRY DELAYS:
P145E 1-16E Zone 1 "Stay Mode" entry delay is P145E1E and can be a value of 0-9999 seconds, through to Zone 16 "Stay Mode" entry delay at address P145E16E. A value of "0" makes the zone instant.

ARMED EXIT DELAY:
P60E 1-2E Area A exit delay is programmed at P60E1E, Area B at P60E2E and can be a value of 0-255 seconds. A value of "0" makes the area arm instantly with no exit delay.

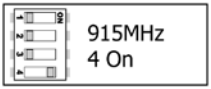
STAY EXIT DELAY:
P61E 1-2E Area A "Stay Mode" exit delay is programmed at P61E1E, Area B at P61E2E and can be a value of 0-255 seconds. A value of "0" arms "Stay Mode" instantly with no exit delay.

Adding Radio Pendants

The ESL control panel has pre configured Pendant slots for:
Arming, Disarming, Output 3, Output 4 and Panic Alarm.
Before you begin learning in pendants please check your RX-16 receiver is connected to the ESL controller and set to the correct frequency (check the Dipswitch settings below).







After Checking DIP Switches The System Must Be Rebooted

The Programming Addresses below must be entered from Installer Mode (IPGM)

Learn Pendant/Remote buttons for Arming Only:
P18E 40-49E First Slot P18E40E E (press pendant button). Second Slot P18E41E E (press pendant button).
Up to 10 pendants can be learnt in to Arm, Finishing at Slot P18E49E E.

Learn Pendant/Remote buttons for Disarming Only:
P18E 50-59E First Slot P18E50E E (press pendant button). Second Slot P18E51E E (press pendant button).
Up to 10 pendants can be learnt in to Disarm, Finishing at Slot P18E59E E.

Learn Pendant/Remote buttons to Activate Output 3 (and Disarm):
P18E 60-69E First Slot P18E60E E (press pendant button). Second Slot P18E61E E (press pendant button).
Up to 10 pendants can be learnt in to Activate Output 3, Finishing at Slot P18E69E E.

Learn Pendant/Remote buttons to Activate Output 4 (and Disarm):
P18E 70-79E First Slot P18E70E E (press pendant button). Second Slot P18E71E E (press pendant button).
Up to 10 pendants can be learnt in to Activate Output 4, Finishing at Slot P18E79E E.

Learn Pendant/Remote buttons to Cause a Panic:
P18E 80-89E First Slot P18E80E E (press pendant button). Second Slot P18E81E E (press pendant button).
Up to 10 pendants can be learnt in to cause a Panic Alarm, Finishing at Slot P18E89E E.

Learn Radio/Wireless Detectors:
P164E 9-16E First Radio Zone Slot P164E9E E (trigger detectors tamper).
Second Radio Zone Slot P164E10E E (trigger detectors tamper)
Up to 8 Detectors can be simply learnt in. Finishing at Slot P164E16E E.
More detectors can be learnt in, but require zone configuration changes at P122E 1-8E.

User Privileges Chart

Program Location	P5E Options:	1	2	3	4	5	6	7	8
	Option 8: Can force download								
	Option 7: Learn new radio devices								
	Option 6: Change DTMF command								
	Option 5: Change clock								
	Option 4: Change phone numbers								
	Option 3: Full access								
	Option 2: Change others codes								
	Option 1: Change own code								
P1E	User codes	X	X	X					
P2E	User type			X					
P3E	User areas			X					
P4E	User access			X					
P5E	User privileges			X					
P7E	User pendant type			X					
P8E	User radio privileges			X					
P9E	User time zones			X					
P18E	Learn radio user							X	
P19E	Delete radio user							X	
P20E	Find radio user							X	
P21E	Learn access Tag/Card user							X	
P22E	Delete access Tag/Card user							X	
P23E	Find access Tag/Card user							X	
P25E12E	User options (hide user codes to installer)		X						
P26E (all)	Time/Date and Daylight Savings					X			
P170E	Change Holidays					X			
P63E	Area A & B Command Code						X		
P164E	Learn radio zone							X	
P165E	Delete radio zone							X	
P166E	Find radio zone							X	
P175E3E	Auto-answer rings				X				
P175E4E	Time to first test call				X				
P175E5E	Test call period				X				
P175E8E	Dial prefix				X				
P175E12E	Output DTMF command control code						X		
P175E13E	Microphone DTMF command control code						X		
P175E14E	Voice/Domestic DTMF acknowledge code						X		
P175E15E	Remote test initiate DTMF code						X		
P181E	Telephone numbers				X				
P194E	Divert telephone numbers				X				
P200E1E	Display panel version #		X	X	X	X	X	X	X
P200E2E	Display keypad address		X	X	X	X	X	X	X
P200E3E	Areas assigned to this keypad		X	X	X	X	X	X	X
P200E4E	Display active time zones		X	X	X	X	X	X	X
P200E5E	Display battery voltage		X	X	X	X	X	X	X
P200E6E	Enter walk test mode							X	
P200E12E	Initiate call back			X					X

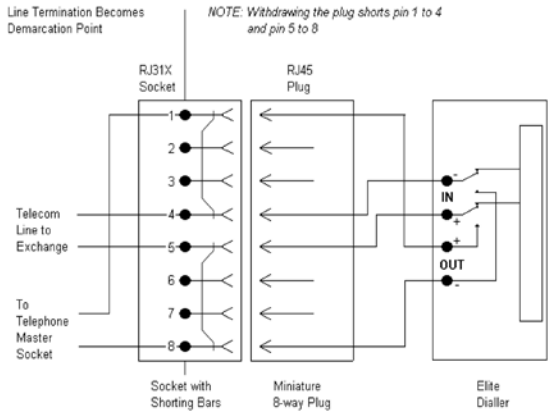
TELECOM INTERFACE

The dialler facility on this controller has been designed to provide optimum flexibility in the way in which alarm events are reported. This flexibility includes options for reporting to a central monitoring station using 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 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 panel 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

Contact ID Reporting Code Summary

In addition to the programmable Contact ID Event Code assignments defined at P157E, P158E, P159E, P175E (10E-12E) there are a number of fixed event codes. The programmable and fixed event codes are all listed in the table below. Associated with the fixed and programmable event codes, there are a number of extension codes, that are also listed below. The list of extension codes is for your reference only and can not be changed in programming.

Event Type	Event Code	Extension	Comment
System Tamper	137	000	Panel & Sat Tamper etc
Zone Alarm (wired or wireless)	130	001 to 016	Alarm on Zone 1-16
Zone Tamper - Low (short circuit)	383	001 to 008	Zone Input 1-8 short circuit
Zone Tamper - High (open circuit)	383	009 to 016	Zone Input 1-8 open circuit
Zone Tamper - Radio Zone	383	001 to 016	Radio Zone 1-16
Zone Near Alarm	138	001 to 016	Zone Input 1-16
Zone Confirmed Alarm	139	001 to 016	Zone Input 1-16
Radio PIR / Reed Switch Battery Low	384	001 to 016	Radio Zone 1-16
Radio PIR Supervised Alarm	381	001 to 016	Supervised Radio Zone 1-16
Sensor-watch Alarm	391	001 to 016	Zone 1-16
Zone Excludes	570	001 to 016	Exclude Zone 1-16
Keypad Panic (or 1&3)	120	001 to 008	Panic at keypad #1-8
Radio-Key Panic	120	021 to 100	Panic by Radio User # 21-100
Keypad Fire (4&6)	110	001 to 008	Fire Alarm at keypad #1-8
Keypad Medical (7&9)	100	001 to 008	Medical Alarm at keypad #1-8
Keypad Tamper Switch Alarm	137	101 to 108	Keypad 1-8 Tamper Switch Activated
Wrong Code Alarm	461	001 to 008	4 Incorrect code entries at KP # 1-8
Arm/Disarm by "ARM key (Quick Arm)	408	000	Arm/Disarm by single button
Arm/Disarm by user code	401	001 to 100	Arm/Disarm by User #1-100
Arm/Disarm by Radio-key	400	021 to 100	Arm/Disarm by Radio User #21-100
Arm/Disarm by Key-switch	409	000	Key-switch # 1 Arm/Disarm
	409	001	Key-switch # 2 Arm/Disarm
Arm/Disarm by DTMF or Up/Download	407	000	Remote Arm/Disarm
Arm/Disarm by Time-Zone	403	000	Time-Zone Arm/Disarm
Latchkey Disarm	642	001 to 100	Latchkey User Disarm
Fail to Arm on Time-Zone	455	000	Auto Arm fail
Delinquency Alarm	454	000	System not Armed within # days
Stay Mode Arm/Disarm (part set)	441	000	Arm by "Stay" Button
Stay Mode Arm/Disarm (part set)	441	001 to 100	Stay Mode Arm by User # 1-100
Stay Mode Arm/Disarm by Key-switch	442	000	Stay Mode Arm by Key-switch # 1
Stay Mode Arm/Disarm by Key-switch	442	001	Stay Mode Arm by Key-switch # 2
Mains Fail	301	000	Mains (AC) fail
System Battery Low	302	000	Control Panel Battery low
Checksum Fail (Corrupt EEPROM Data)	303	001-008	Checksum block error
Fuse Fail	312	000	Fuse 1 or 2 Fail
Radio-key Battery Low	384	021 to 100	Radio-key User #21-100 low batt.
Radio-PIR / Reed Switch Battery Low	384	001 to 016	Radio Zone 1-16
Automatic TEST Calls	602	000	24 hour test
Manual TEST Calls	601	000	User generated Test Call
Phone Line Failure	351	000	Reported when line is restored
Duress Alarm	121	001 to 008	Duress at Keypad #1-8
Program Mode Entry	627	000	Program Mode entered
Program Mode Exit	628	000	Program Mode exited
Output 1 or 2 Tamper	323	001 or 002	O/P 1 or 2 wires cut.
Time & Date Changed	625	000	Time & Date has been changed
Keypad Bus Trouble	330	001 to 008	Keypad device 1-8 offline
RF Receiver jam detected	344	000	RF Jamming Detected
Dialler Failure	354	000	Failure to get kiss off
Listen-In Request	606	000	Hold line open after alarm

SIA Reporting Code Summary

Most of the SIA Event Codes are fixed within the panel but some locations such as zones at P196E (1-16E) and Panic/Fire/Medical at P197E (1-3E) can have a user defined report code from the table below. To follow are the default SIA reporting codes.

Event Type	SIA Alarm Code	SIA Restore Code
Armed, 24 hour & Near Zone Alarms (programmable P196E)	BA	BH
Zone Verified Alarm Activated	BV	BH
Zone Bypassed	BB	BU
Zone Tamper Activated	BT	BJ
Sensor-Watch Fail	NA	NS
Radio Zone Supervise Fail	BZ	BR
Pendant or Radio Zone Low Battery	XT	XR
Keypad or Pendant Panic Alarm (programmable P197E1E)	PA	PH
Keypad Fire Alarm (programmable P197E2E)	FA	FH
Medical Alarm (programmable P197E3E)	MA	MH
Duress Alarm	HA	HH
Panel or Keypad Tamper Switch Activated	TA	TR
Panel Battery Low	YT	YR
Panel AC Fail	AT	AR
Output Tamper Alarm (O/P 1 & 2 only)	YA	YH
12V Output (fuse) Failure	YP	YQ
Phone Line Fail	LT	LR
Automatic Test Message	RP	
Manual Test Call	RX	
Area Delinquency Alarm	CD	CT
Excessive Code Attempts Alarm	JA	JP
Armed by User, Pendant, ARM button, DTMF or PC	CL	OP
Area Armed by Key-Switch	CS	OS
Area Armed by Time Zone	CA	OA
Stay Mode Armed by User, Pendant, KS, STAY Button	CG	OG
Fail to Arm by Time-Zone	CI	
Program Mode Entry/Exit	LB	LX
Checksum Fail (Corrupt EEPROM Data)	YF	
Time Changed	JT	
Keypad Bus Trouble	IA	IR
Dialler Failure (No Kiss off)	YC	
RF Interference (jamming) Detected	XQ	XH
Listen-In Request	LF	

CHART FOR THE PROGRAMMABLE SIA EVENT CODES

Event Description	Program Number	Alarm	Restore	Bypass	Un-Bypass	Trouble	Trouble Restore	Near Alarm	Verified Alarm
Burglary	1	BA	BH	BB	BU	BT	BJ	BA	BV
Un-typed Alarm	2	UA	UH	UB	UU	UT	UJ	-	-
Hold-up	3	HA	HH	HB	HU	HT	HJ	-	-
Fire	4	FA	FH	FB	FU	FT	FJ	FA	FM
Medical	5	MA	MH	MB	MU	MT	MJ	-	-
Panic	6	PA	PH	PB	PU	PT	PJ	-	-
Emergency	7	QA	QH	QB	QU	QT	QJ	-	-
Gas	8	GA	GH	GB	GU	GT	GJ	-	-
Sprinkler	9	SA	SH	SB	SU	ST	SJ	-	-
Water	10	WA	WH	WB	WU	WT	WJ	-	-
Heat	11	KA	KH	KB	KU	KT	KJ	-	-
Freeze	12	ZA	ZH	ZB	ZU	ZT	ZJ	-	-
Equipment	13	IA	IR	-	-	-	-	-	-
Equip. Tamper	14	TA	TH	TB	TU	TT	TJ	-	-

When you program one of the numbers in column 2 above at any of the addresses at P196E or P197E then all of the SIA codes associated with that event type will automatically be loaded, eg if Zone 10 (P196E10E) was programmed with a "4", then when zone 10 activates it will send the fire alarm (FA) and the fire alarm restore (FH) and if zone 10 was bypassed it will send the fire bypass (FB) and the fire un-bypass (FU). See page 90 for more details.

Software Change Update Notice

Software Update V9.03 August 2006
The following new features have been added in V9.03
1– Code required to View memory P4E option 8 and P25E option 1
2– Radio pendant only works during entry delay for disarm P8E option 4
3– User codes 21-100 can be a unique duress code P8E option 5
4– Cancel handover feature in Stay mode only P25E option 2
5– Keypad output control disabled when armed P25E option 3
6– User codes disabled during entry delay P25E option 4
7– Blank keypad display when armed P25E option 5
8– Pulse an output on kiss-off of a zone alarm P36E option 4 & P124E option 7
9– Output Chime timer can be in minutes P37E option 2 (was previously only reset time)
10– Stay mode armed confirmation beep to keypad P72E option 8
11– Zone lockout function has been removed P123E option 6
12– Zone can pulse output on kiss-off P124E option 7 & P36E option 4
13– A zone can be used to terminate the exit delay P124E option 8
14– The zone re-trigger timer has been replaced with a re-trigger count P146E
15– A new SIA reporting format has been added P182E option 10
16– Some new dialler reporting options have been added P189E options 6 & 7
17– SIA reporting codes can be edited P196E & P197E

Software Update V9.03B September 2006
The following new feature has been added in V9.03B
1– The "Dial Report Delay" timer at P25E3E only worked for zone alarms in full arm mode. In version 9.03B the dial report delay also now applies to zone alarms in Stay Mode.

Software Update V9.04 November 2006
The following new features were added in V9.04
1 - Option 5 at P25E10E was modified to include "RF Jammed" as part of the arm lockout.
2 - Option 7 at P25E10E was modified to include AC fail as part of the arm lockout. Only available on "SIEM" models. All other models only inhibit arming on a battery low.
3 - Option 5 at P25E11E was added. Option 5 inhibits arming during a missing keypad alarm.
4 - Option 6 at P25E11E was added. Option 6 inhibits arming during a telephone line fault or Comms fault (failure to get a kissoff).
5 - Option 7 at P25E11E was added. Option 7 increase the wrong code keypad tamper count from 4 to 10 and locks out the keypad for 90 seconds.
6 - Option 5 at P175E2E was added. Option 5 changes the test time period (P175E5E) from hours to days.
7 - A new monitoring format was added at P182E. The new option is SIA Slow format (option 11).
8 - Option 8 at P189E was added. Option 8 allows reporting of the RF jammed alarm.

Software Update V9.05 January 2007
The following new features were added in V9.05
1 - Option 4 at P37E was added to disable outputs during two way voice mode.
2 - Option 8 at P175E2E was added to allow the panel to auto-answer after 1 ring if set up to do full duplex two way voice using the call-back option.
3—Option 5 at P183E was added to allow for direct on-line two way voice following reporting of an alarm event.

Software Update V9.06.5 September 2007
The following new feature was added in V9.07.7
1 - Option 14 was added at P200E to allow the RSSI (received signal strength) to be displayed at LCD keypads with software version V208.5 or greater. It can also be used with the Icon LCD keypad. The signal strength reading is displayed along with the User or Zone number that was received at the time. For the readings to be available to the control panel an RX-16 MF receiver must be connected to the alarm system.

Software Update V9.07.7 February 2008
The following new feature was added in V9.07.7
1 - Option 7 at P25E13E was added to disable alarms from keypad tamper switches. By default the option is turned off which means all keypad tampers will be ignored.

Software Update V9.07.12 March 2008
1 - The New Zealand Daylight saving defaults were changed.
2 - The panel supports the TCP/IP module.

Software Change Update Notice

Software Update V9.08.12B Feb 2011
1 - ELITE S & ELITE S-LITE panels with the "B" at the end of the software version number V9.08.12 have had a default change. These new defaults were released in February 2011. The miscellaneous Domestic/Voice reporting options at P176E 1E - 11E were all defaulted to "1" which meant all of those events would report when set to Domestic or Voice reporting format. If they were not required the value needed to be set to "0" to stop it reporting. The defaults at location P176E1E - P176E11E (inclusive) have been changed from a "1" to a "0". Now if any of those options are required they can be enabled by entering a value of "1" for Domestic reporting or the actual message number programmed into the voice board for Voice reporting.

Software Update V9.08.12C Oct 2015
This software was released with the launch of the ESL circuit board and features radical changes to the defaults. See quick configuration page for more details.

Software Update V9.08.14C Feb 2017
Allows Outputs to be controlled with the Control Feature while the system is armed.

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