

ESL-2 Version

8/16 Zone Control Communicator

V9



Arrowhead Alarm Products Ltd Program Summary Guide



NZ Designed & Manufactured



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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 feedback, 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.

ESL-2 Specifications

Features	Description
Zones	8 – Expandable to 16 with zone doubling – Wired or wireless
Radio Zones	Up to 16 – Uses the same zone slots detailed above
Outputs	4 – Expandable to 8 outputs with 'ESL OUTPUT'
Outputs – 1 & 2	Monitored & programmable for 8 Ohm horn speakers
Outputs – Protection	1A auto resetting fuse for each of the 4 outputs
Output – Clean Relay	Output 4 is a clean relay contact for garage doors or gates
Keypads	Supports up to 8 keypads
Keypad Bus	Legacy bus – 2 x quick connect ports plus +, -, C, D terminals
Keypads - Compatible	KP-TOUCH, KP-ICON-OEM, KP-LCD ST7OEM, KP-LED OEMST, E16LEDKP, E16LED KP-C
Wireless - Compatible	TRX, FW2 & RX-16 compatible devices
Areas	2 areas, each with dedicated night arm
Time Schedules	8 time schedules for automatic operations or restrictions
Users – Codes	100 user codes for alarm or access control functions
Users – Radio	80 – Each radio user takes up 1 of the 100 user slots
Software Package	Free ULD16 upload/download package
IP Integration	Plug in network module for app or monitoring – ESL-2 APP POD
Dialer	Plug in dialer for land line monitoring or 3 rd party monitoring devices
Battery Back Up	Dynamic battery monitoring with low voltage disconnect
Battery Charging	250mA current limited SLA battery charging
Power Supply	1.5A switch mode PSU
Tamper	2K2 EOL or 0 resistance to ground (selectable)
Keyswitch	4K7 & 8K2 across tamper terminals. Programmable
Panel Config	Transferrable between all V9 panels with ULD16 software

ESL-2 APP POD



Plug in network module for monitoring & smartphone app

EliteControl  Accessories

KP-TOUCH



Intuitive touch screen interface

ESL-2 DIAL POD

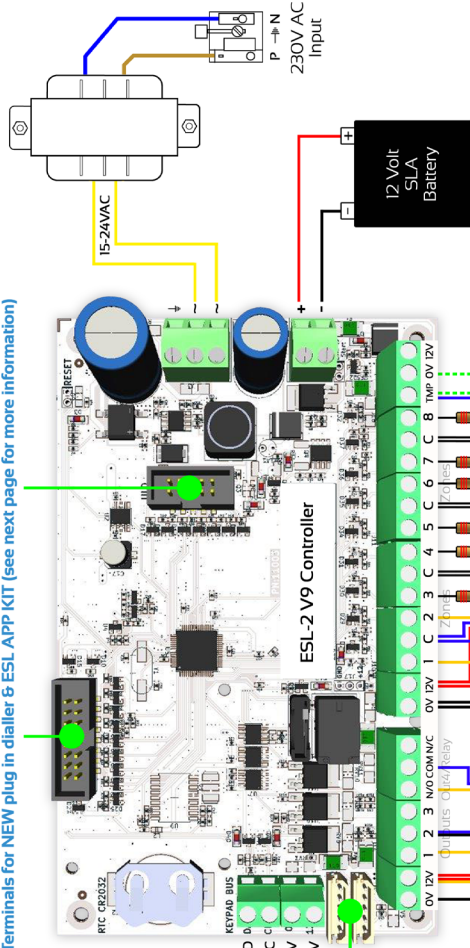


Plug in dialler for land line monitoring or third party devices

ESL-2 Wiring Diagram

Hardware Connection Diagram

Terminals for NEW plug in dialler & ESL APP KIT (see next page for more information)

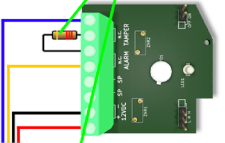
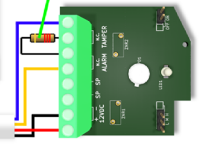
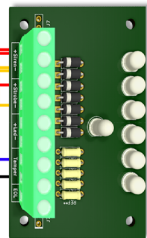


Quick connect keypad bus terminals
 - Use with 'ARR14' or 'ARR15' bus cables
 - Ideal for use with receiver cards & expand modules

Wiring the external siren tamper is not required, however if not wired you must add this link wire

Fit a 2kΩ resistor in unused zone terminals

Resistor Colour Codes:
 2K2 = [Red][Red][Gold] = Red, Red, Red, Gold
 4K7 = [Yellow][Violet][Red][Gold] = Yellow, Violet, Red, Gold
 8K2 = [Grey][Red][Red][Gold] = Grey, Red, Red, Gold
 4K7 & 8K2 - For Advanced installations Only



Automatic Garage Door
 Push Button

OPT-RXC-5T
 PIR Sensor

OPT-RXC-5T
 PIR Sensor

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. 1

Users

Programming User Codes

PIE 1-100E User Code 1-100 - Default for User Code # 1 (PIEIE) = 123 Codes can be 1-6 or 4-6 digits. Page 48

(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 - 0 = Keypad Code User (PIN) Page 48
(Default = 4) 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 - 1 = Assigned to Area "A" Page 49
(Default User 1-99 = 1) (100 = 1 & 2) 2 = Assigned to Area "B"

User Code Access Options

P4E 1-100E Users 1-100 Access Options (Default 1-4) 1 = Code can Arm Area Page 49
(Default User 1-39 & 100 = 1,3,4) 2 = Code can arm Stay Mode
(Default User 40-49 = 1) 3 = Code can Disarm Area
(Default User 50-79 = 3,4) 4 = Code can disarm Stay Mode
(Default User 80-99 = All Off) 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 50
(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 51
(Default = 0)
0 = General Pendant Type
1 = Crow Freeline Pendant
21 = Ness Pendant

Radio User Privileges

P8E 21-100E Radio Users 21-100 Privileges Page 51
(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 51
(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

Users Continued

User to Keypad Assignment

PI0E 1-100E User # 1-100 Keypad Assignment
(Default = All On)

- 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

- 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

PI1E 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

PI2E 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

PI3E 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

Page 53

User can Turn an Output Off

PI4E 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

PI5E 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 53

Armed by User # 4+2 Reporting Code

PI6E 1-100E 4+2 Arm Code for Users 1-100

Page 104

Disarmed by User # 4+2 Reporting Code

PI7E 1-100E 4+2 Disarm Code for Users 1-100

Page 104

Learn Radio Pendant Codes

PI8E 21-100E Learn Radio Pendant Codes for Users 21-100
(applies if the User Type, P2E, is set to 1)

Page 53

Delete a Specific Radio Pendant Code

PI9E 21-100E Delete a Specific Radio Pendant Code for Users 21-100
(applies if the User Type, P2E, is set to 1)

Page 54

Find Radio Pendant memory Location

P20E OE Enter this address then operate the Radio Pendant to find its user #
(applies if the User Type, P2E, is set to 1). Only press OE when using LED Keypad.

Page 54

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 54

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 54

Find an Access Tag/Card memory Location

P23E OE 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 OE when using LED Keypad.

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Miscellaneous Panel & Clock Settings

Miscellaneous Panel & Clock Settings

Installer Code

P25E 1E **Installer Code** - (Default = 000000) Page 55

Duress Digit

P25E 2E **Duress Digit** - Value 1-9 (Default = 0 Duress Function Disabled) Page 55

Dial Report Delay

P25E 3E **Dial Report Delay** - Value 0-255 seconds (Default = 0) Page 55

Radio Detector Supervised Timer

P25E 4E **Radio Detector Supervised Timer** - 0-9999 Minutes (Default = 240 Minutes [4 Hours]) Page 55

Two Trigger Timer

P25E 5E **Two Trigger Timer** - Value 0-255 Seconds (Default = 60 Sec) Page 55

Mains Fail Reporting Delay

P25E 6E **Mains Fail Reporting Delay** - Value 0-9999 Seconds (Default = 600 Sec) Page 55

Receiver Fail Delay

P25E 7E **Receiver Fail Delay** - Value 0-9999 Seconds (Default = 0 Sec-Disabled) Page 55

Upload/Download Site Code Number

P25E 8E **Upload/Download Site Code Number** - Up to 8 Characters (Default = None) Page 56

Temporary Output Disable

P25E 9E **Temporary Output Disable** - Output 1-8 Page 56

Miscellaneous Panel Options

P25E 10E **Misc. Panel Options** (Default = 2,6) **Miscellaneous Options** Page 56

- 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 57

- 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 58

- 1 = Hide User Codes from Installer

P25E 13E **Misc. User Options** (Default =)

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 59

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 59

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

Outputs

Outputs

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)

Page 60

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)

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Output ON Delay Time

P38E 1-8E Output 1-8 ON Delay Time - 0-9999 Seconds (Default = 0 Sec)

Page 62

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 62

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 63

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 63

Start of Output "Command Control" Status Messages

P42E 1-8E Start message Number for Outputs 1-8 "Command Control" - 0-99 (Default = 0)

Page 63

Un-Map an Output

P43E 1-8E Un-map Outputs 1-8 (remove ALL Defaults from an Output)

Page 63

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 63

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 64

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 65

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 66

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 66

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 66

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 67

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)

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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 67

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 67

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")

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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")

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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")

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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 68

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 68

Areas

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)
(1=Area "A") (Default Area A = All On, Area B = All On)
(2=Area "B")

Page 68

Area "A" & "B" Armed Exit Delay Time

P60E 1-2E Area A&B Exit Delay Time - Value 0-255 seconds
(1=Area "A") (Default = 30 Seconds for Areas A&B)
(2=Area "B")

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Area "A" & "B" Stay Armed Exit Delay Time

P61E 1-2E Area A&B Stay Exit Delay Time - Value 0-255 seconds
(1=Area "A") (Default = 30 Seconds for Areas A&B)
(2=Area "B")

Page 69

Area "A" & "B" Monitoring Account Code Number

P62E 1-2E Area A&B Account Code - Value 0000-FFFF
(1=Area "A") (Default = 0000 for Areas A&B)
(2=Area "B")

Page 69

Area "A" & "B" Remote "Command Control" Code Number

P63E 1-2E Area A&B Command Control code - Value 1-4 digit code (1-9999)
(1=Area "A") (Default = 0 for Areas A&B)
(2=Area "B")

Page 69

Start Message Number for Areas "A" & "B" "Command Control"

P64E 1-2E Start Message for Areas A&B Command Control - Value 0-99
(1=Area "A") (Default = 0 for Areas A&B)
(2=Area "B")

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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)
(1=Area "A") (Default = All Off)
(2=Area "B")

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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)
(1=Area "A") (Default = All Off)
(2=Area "B")

Page 69

Area "A" & "B" Delinquency Delay

P67E 1-2E Area A&B Delinquency Delay - value 0-99 Days, (0 = Off)
(1=Area "A") (Default = 0 for areas A&B)
(2=Area "B")

Page 69

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)
(1=Area "A") (Default = All Off)
(2=Area "B")

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Keypads

Keypads

Keypad Area Assignment

P71E	I-8E	Keypads Assigned To Areas (Default = 1,2)	1 = Area "A" 2 = Area "B"	Page 71
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Keypad Button Options

P72E	I-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> + Fire Alarm Enabled 7 = <7> + <9> or + <CHIME> Medical Alarm Enabled 8 = Stay Armed Beep to Keypad	Page 71
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Alarm Beeps & LED Control to Keypad

P73E	I-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 72
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Keypad "ARM" Button Area Assignment

P74E	I-8E	Keypad "ARM" Button Area (Default = 1)	1 = "ARM" Button assigned to Area "A" 2 = "ARM" Button assigned to Area "B"	Page 72
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"Fire (456)" Alarm to Outputs

P85E	I-8E	Keypad "Fire (456)" Alarm to Outputs (Default = 1,2)	1 = The Keypad "Fire (456)" Alarm will turn on Output # 1 2 = The Keypad "Fire (456)" Alarm will turn on Output # 2 3 = The Keypad "Fire (456)" Alarm will turn on Output # 3 4 = The Keypad "Fire (456)" Alarm will turn on Output # 4 5 = The Keypad "Fire (456)" Alarm will turn on Output # 5 6 = The Keypad "Fire (456)" Alarm will turn on Output # 6 7 = The Keypad "Fire (456)" Alarm will turn on Output # 7 8 = The Keypad "Fire (456)" Alarm will turn on Output # 8	Page 77
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"Medical (759)" Alarm to Outputs

P86E	I-8E	Keypad "Medical (759)" Alarm to Outputs (Default = 1,2)	1 = The Keypad "Medical (759)" Alarm will turn on Output # 1 2 = The Keypad "Medical (759)" Alarm will turn on Output # 2 3 = The Keypad "Medical (759)" Alarm will turn on Output # 3 4 = The Keypad "Medical (759)" Alarm will turn on Output # 4 5 = The Keypad "Medical (759)" Alarm will turn on Output # 5 6 = The Keypad "Medical (759)" Alarm will turn on Output # 6 7 = The Keypad "Medical (759)" Alarm will turn on Output # 7 8 = The Keypad "Medical (759)" Alarm will turn on Output # 8	Page 77
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"Duress" Alarm to Outputs

P87E	I-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 77
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Keypad "Tamper Switch" Alarm to Outputs

P88E	I-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 77
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Keypad "Wrong Code" Alarm to Outputs

P89E	I-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 77
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Keypads Continued

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

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Manually Operated Fire Alarm Beeps to Keypads

P91E 1-8E Fire Alarm Beeps to Keypads
(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

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Manually Operated Medical Alarm Beeps to Keypads

P92E 1-8E Medical Alarm Beeps to Keypads
(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

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Keypad "ARM" Button Area Options

P75E 1-8E Keypad "ARM" Button Opts.
(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

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Keypad "STAY" Button Area Assignment

P76E 1-8E Keypad "STAY" Button Area
(Default = 1)

- 1 = "STAY" Button assigned to Area "A"
- 2 = "STAY" Button assigned to Area "B"

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Keypad "STAY" Button Area Options

P77E 1-8E Keypad "STAY" Button Opts.
(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

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Keypad "A" Button (Large LCD KP only) Area Assignment

P78E 1-8E Keypad "A" Button Area 1 = "A" Button assigned to Area "A"
(Default = 1) 2 = "A" Button assigned to Area "B"

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Keypad "A" Button (Large LCD KP only) Area Options

P79E 1-8E Keypad "A" Button Opts. 1 = "A" Button can Arm
(Default = 1,7)

- 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

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Keypad "B" Button (Large LCD KP only) Area Assignment

P80E 1-8E Keypad "B" Button Area 1 = "B" Button assigned to Area "A"
(Default = 2) 2 = "B" Button assigned to Area "B"

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Keypad "B" Button (Large LCD KP only) Area Options

P81E 1-8E Keypad "B" Button Opts. 1 = "B" Button can Arm
(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

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Keypads Continued

Keypad “B” Button (Large LCD KP only) Area Options

P81E	I-8E	Keypad “B” Button Opts. 1 = “B” Button can Arm (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
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Keypad to Output Mask (for Access Control)

P82E	I-8E	Keypad to Output Mask (Default KP's 162= 3,4 On) (Default KP 3 = 3 On) (Default KP 4 = 4 On) (Default KP 5 = 5 On) (Default KP 6 = 6 On) (Default KP 7 = 7 On) (Default KP 8 = 8 On)	1 = The Keypad is linked to Output # 1 2 = The Keypad is linked to Output # 2 3 = The Keypad is linked to Output # 3 4 = The Keypad is linked to Output # 4 5 = The Keypad is linked to Output # 5 6 = The Keypad is linked to Output # 6 7 = The Keypad is linked to Output # 7 8 = The Keypad is linked to Output # 8
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“Control” Button to Output Mask (for App Control)

P83E	I-8E	Keypad “Control” Button to Output Mask (Default KP's 1-7 = All Off) (Default KP 8 = 3,4,5,6,7,8 On)	1 = The Keypad “Control” Button is linked to Output # 1 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
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“Panic” Button or “163” Alarm to Outputs

P84E	I-8E	Keypad “Panic” Button or “163” Alarm to Outputs (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
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Wrong Code or Keypad Tamper Switch Alarm Beeps to Keypads

P93E	I-8E	Wrong Code or Keypad Tamper Switch Alarm Beeps to Keypads (Default = All On)	1 = A Wrong Code or KP Tamper Alarm at Keypad I-8 will Beep KP # 1 2 = A Wrong Code or KP Tamper Alarm at Keypad I-8 will Beep KP # 2 3 = A Wrong Code or KP Tamper Alarm at Keypad I-8 will Beep KP # 3 4 = A Wrong Code or KP Tamper Alarm at Keypad I-8 will Beep KP # 4 5 = A Wrong Code or KP Tamper Alarm at Keypad I-8 will Beep KP # 5 6 = A Wrong Code or KP Tamper Alarm at Keypad I-8 will Beep KP # 6 7 = A Wrong Code or KP Tamper Alarm at Keypad I-8 will Beep KP # 7 8 = A Wrong Code or KP Tamper Alarm at Keypad I-8 will Beep KP # 8
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Chime Alarm Beep Time at a Keypad

P94E	I-8E	The Time the Chime Alarm will sound at Each Keypad - Value =0.255 1/10th sec (Default = 20 which is 2 Seconds)
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Proximity Reader LED to Output Mapping

P98E	I-8E	Proximity Reader LED to Output Mapping (Default KP's 162 = None) (Default KP 3 = 3 On) (Default KP 4 = 4 On) (Default KP 5 = 5 On) (Default KP 6 = 6 On) (Default KP 7 = 7 On) (Default KP 8 = 8 On)	1 = Proximity Reader I-8 LED will follow the state of Output # 1 2 = Proximity Reader I-8 LED will follow the state of Output # 2 3 = Proximity Reader I-8 LED will follow the state of Output # 3 4 = Proximity Reader I-8 LED will follow the state of Output # 4 5 = Proximity Reader I-8 LED will follow the state of Output # 5 6 = Proximity Reader I-8 LED will follow the state of Output # 6 7 = Proximity Reader I-8 LED will follow the state of Output # 7 8 = Proximity Reader I-8 LED will follow the state of Output # 8
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Learn Proximity Reader Keypad Address Number

P99E	I-8E	Learn Proximity Reader Keypad Address Number - Value = Keypad Address I-8
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Key-switches & Zones

Key-switches

Key-switch Area Assignment

PI11E	1-2E	K/S 1 & 2 assigned to Areas A or B - (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"	Page 80
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Key-switch Access & Operational Options

PI12E	1-2E	K/S 1 & 2 Access & Operational Options (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)	Page 80
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Zones

Programming Zones to Areas

PI21E	1-16E	Assigning Zones to Areas A or B (Default = 1)	1 = Assigned to Area "A" 2 = Assigned to Area "B"	Page 81
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Programming Zone Options A

PI22E	1-16E	Programming Zone Options A (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	Page 81
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Programming Zone Options B

PI23E	1-16E	Programming Zone Options B (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	Page 82
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Programming Zone Options C

PI24E	1-16E	Programming Zone Options C (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	Page 82
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Programming Zone EOL (End-of-line) Options

PI25E	1-8E	Programming Zone EOL Options (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	Page 83
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Zones Continued

Programming Zone Response

PI26E 1-8E **Programming Zone Response**
(Default = 9)

1 to 8 Vibration mode Page 84
(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
(Default = 4)

Page 84

- 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)

Page 85

- 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**
(Default = 1,2)

Page 85

- 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**
(Default = 1,2)

Page 85

- 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

Zones Continued

- 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

PI31E 1-16E Chime Zone Alarms to Output
(Default = All Off)

Page 86

- 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

PI32E 1-16E Zone Tamper Alarms to Output Page 73
(Default = 1,2)

Page 86

- 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

PI34E 1-16E Armed Zone Alarm Beeps to Keypads
(Default = All On)

Page 86

- 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

PI35E 1-16E Stay Mode Zone Alarm Beeps to Keypads
(Default = All On)

Page 87

- 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

PI36E 1-16E 24 Hour Zone Alarm Beeps to Keypads
(Default = All On)

Page 87

- 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

PI37E 1-16E Chime Zone Alarm Beeps to Keypads
(Default = All Off)

Page 87

- 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

PI39E 1-16E Zone Tamper Alarm Beeps to Keypads
(Default = All On)

Page 87

- 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

PI40E 1-16E Radio Supervise Alarm Beeps to Keypads

(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

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Zone Sensor-watch Alarm Beeps to Keypads

PI41E 1-16E Zone Sensor-watch Alarm Beeps to Keypads

(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

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Armed Zone Entry Delay Beeps to Keypads

PI42E 1-16E Armed Zone Entry Delay Beeps to Keypads

(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

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Stay Mode Entry Delay Beeps to Keypads

PI43E 1-16E Stay Mode Entry Delay Beeps to Keypads

(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

Page 87

Armed Zone Entry Delay Times

PI44E 1-16E Armed Zone Entry Delay Times - Value 0-9999 seconds

(Default Zone # 1 = 20 Seconds, Zones # 2-16 = 0)

Page 88

Stay Mode Entry Delay Times

PI45E 1-16E Stay Mode Entry Delay Times - Value 0-9999 seconds

(Default Zones # All = 20 Seconds)

Page 88

Zone Re-trigger Count

PI46E 1-16E Zone Re-Trigger Count - Value 0-15 (Maximum number of times a zone can re-trigger

during armed state. 0=Unlimited Triggers)

Page 88

Zone Alarm 4+2 Reporting Codes

PI47E 1-16E Zone Alarm 4+2 Reporting Code - Two digit value from 00-FF

Page 104

Zone Alarm 4+2 Restore Reporting Codes

PI48E 1-16E Zone Alarm Restore 4+2 Code - Two digit value from 00-FF

Page 104

Zone Near Alarm 4+2 Reporting Codes

PI49E 1-16E Zone Near Alarm 4+2 Reporting Code - Two digit value from 00-FF

Page 104

Zone Near Alarm 4+2 Restore Reporting Codes

PI50E 1-16E Zone Near Alarm Restore 4+2 Code - Two digit value from 00-FF

Page 104

Zone Intrusion Verified Alarm 4+2 Reporting Codes

PI51E 1-16E Zone Intrusion Verified Alarm 4+2 Reporting Code - Two digit value from 00-FF

Page 104

Zone Intrusion Verified Alarm 4+2 Restore Reporting Codes

PI52E 1-16E Zone Intrusion Verified Alarm Restore 4+2 Code - Two digit value from 00-FF

Page 104

Zone Bypass Alarm 4+2 Reporting Codes

PI55E 1-16E Zone Bypass Alarm 4+2 Reporting Code - Two digit value from 00-FF

Page 104

Zone Bypass 4+2 Restore Reporting Codes

PI56E 1-16E Zone Bypass Restore 4+2 Code - Two digit value from 00-FF

Page 104

Zones Continued

Zone Alarm Contact ID Reporting Codes

P157E I-16E Zone Alarm Contact ID Reporting Code - (Default = 130) Page 89

Zone Near Alarm Contact ID Reporting Codes

P158E I-16E Zone Near Alarm Contact ID Reporting Code - (Default = 138) Page 89

Zone Intrusion Verified Alarm Contact ID Reporting Codes

P159E I-16E Zone Intrusion Verified Alarm Contact ID Reporting Code - (Default = 139) Page 89

Zone Alarm Voice Message Number

P160E I-16E Zone Alarm Voice Message Number - Value-0-99 (Default = 1) Page 89

Away Zone Entry Delay to Outputs

P161E I-16E Away Zone Entry Delay to Outputs Page 89
(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 I-16E Stay Mode Entry Delay Beeps to Outputs Page 89
(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 I-16E Sensor-Watch Timer - 0-9999 Minutes (Default = 7200 minutes [120 Hours]) Page 90

Enrolling Radio Zone Codes

P164E I-16E Learn Radio Zone Codes Page 90

Delete a Specific Radio Zone Code

P165E I-16E Delete a Specific Radio Zone Code Page 90

Find Radio Zone memory Location

P166E OE This will find the zone # of any Radio Zone code stored in the panel Page 90
Only press OE when using LED Keypad.

Zone Near Alarm to Outputs

P167E I-16E Zone Near Alarm to Outputs Page 90
(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 I-16E Zone Confirmed Alarm to Outputs Page 90
(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 & Dialler

Time Zones

Programming Holidays

P170E 1-8E Holidays 1-8 Days - Value = DDDMMYY Page 91

Programming Time Zone Days

P171E 1-8E Time Zones 1-8 Days (Default = All Off) Page 91

- 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 91

P173E 1-8E Time Zones 1-8 End Time - Value 0000-2359 (Default = 0000) Page 91

Time Zone Options

P174E 1-8E Time Zone 1-8 Options (Default = All Off) Page 91

- 1 = Ignore Holidays
- 2-8 = Spare

Dialler

Dialler Programming Options

P175E 1E Dialler options (Default = 7) Page 92

- 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 (Default = 1) Page 92

- 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 93

Test Call Start Time

P175E 4E Test Call Start Time - Value 0000-2359 (Default = 0200) Page 93

Test Call Time Period

P175E 5E Test Time Call Period - Value 0-255 Hours: 0 = No Test (Default = 24) Page 94

Keypad Listen-in Options

P175E 6E Keypad Listen-in Options (Default = 1,2,3,4,5,6,7) Page 94

- 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 (Default = All Off) Page 94

- 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

PI75E 8E Dialling Pre-fix Number - Value 1-16 Digits (Default = 0) Page 94

"Panic" Alarm Contact ID Reporting Code

PI75E 9E "Panic" Alarm CID Reporting Code - (Default=120) Page 94

"Fire" Alarm Contact ID Reporting Code

PI75E 10E "Fire" Alarm CID Reporting Code - (Default=110) Page 95

"Medical" Alarm Contact ID Reporting Code

PI75E 11E "Medical" Alarm CID Reporting Code - (Default=100) Page 95

Output "Command Control" Code Number

PI75E 12E Output Command Control code - Value 1-4 digit code (1-9999) (Default = 0) Page 95

Microphone On/Off "Command Control" Code Number

PI75E 13E Microphone Command Control code - Value 1-4 digit code (1-9999) (Default = 0) Page 95

Dialler Acknowledge Code

PI75E 14E Voice/Domestic Acknowledge Code - Value 1-4 digit code (1-9999) (Default = 0) Page 95

Force Test Call Code

PI75E 15E Force Test Call Code - Value 1-4 digit code (1-9999) (Default = 0, Feature disabled) Page 95

Programming Voice Board Messages

PI76E 1E Keypad or Radio "Panic" Alarm Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 2E "Fire" Alarm Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 3E "Medical" Alarm Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 4E "Mains Failure" Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 5E "Mains Restore" Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 6E "Battery Low" Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 7E "Battery Restored" Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 8E "Tamper" (Zone/Radio/System) Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 9E "Duress Alarm" Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 10E "Latchkey Disarm" Voice Message Number - Value 0-99 (Default = 0) Page 96

PI76E 11E "Manual Test Initiated" Voice Message Number - Value 0-99 (Default = 0) Page 96

Telephone Numbers

Programming Telephone Numbers

PI81E 1-8E Programming Telephone Numbers - Value 1-16 Digits (Default = 0) Page 97

Telephone Number Reporting Formats

PI82E 1-8E Telephone Number Reporting Formats Page 97

(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

PI83E 1-8E Telephone Number Reporting Options Page 99

(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

PI84E 1-8E Maximum Dial Attempts per Telephone Number - Value 0-99 (Default #1-4 = 20)(#5-8 = 2) Page 99

Dialler Reporting Options A

PI86E 1-8E Dialler Options A Page 99

(Default = All On)

- 1 = Report Mains Failure
- 2 = Report Battery low
- 3 = Report Radio Battery Low

Telephone Numbers Continued & Miscellaneous 4 + 2 Program Options

Dialler Reporting Options B

P187E 1-8E Dialler Options B
(Default = All On)

- 4 = Report Line Fail
- 5 = Report System Tamper
- 6 = Report Keypad Tamper
- 7 = Report Zone Tamper
- 8 = Report Radio Zone Tamper

- 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

Page 100

Dialler Reporting Options C

P188E 1-8E Dialler Options C
(Default = 1,2,5,6,8)

- 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

Page 101

Dialler Reporting Options D

P189E 1-8E Dialler Options D
(Default = 3,4,5)

- 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

Page 101

Divert Area Events

P192E 1-2E Divert Area Events
(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

Page 102

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

Page 103

Divert Numbers

P194E 1-2E Divert Numbers - Value 1-16 Digits (Default = 0)
(1=Divert on)
(2=Divert off)

Page 103

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 105
P195E 2E Mains Failure restore 4+2 Code - Two digit value from 00-FF Page 105
P195E 3E Low Battery 4+2 Code - Two digit value from 00-FF Page 105
P195E 4E Low Battery Restore 4+2 Code - Two digit value from 00-FF Page 105

System Tamper 4+2 Reporting Codes

P195E 5E 4+2 Alarm Code for System Tamper - Two digit value from 00-FF Page 105
P195E 6E 4+2 Alarm Code for System Tamper Restore - Two digit value from 00-FF Page 105

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 105
P195E 8E 4+2 Code for Remote Disarm - Two digit value from 00-FF Page 105

Miscellaneous 4 + 2 Program Options Continued & SIA Alarm Report Codes

Duress Alarm 4+2 Reporting Code

P195E 9E 4+2 Duress Alarm Code - Two digit value from 00-FF Page 105

Automatic Test 4+2 Reporting Code

P195E 10E 4+2 Automatic Test Code - Two digit value from 00-FF Page 105

Armed by "Arm" Button 4+2 Reporting Code

P195E 11E 4+2 Arm by "Arm" Button Code - Two digit value from 00-FF Page 105

Stay Mode Arming 4+2 Reporting Code

P195E 12E 4+2 Stay Mode Arming Code - Two digit value from 00-FF Page 105

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 105

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 105

P195E 15E 4+2 Disarm by "Key-switch" Code - Two digit value from 00-FF Page 105

"Time Zone Arm Failure" 4+2 Reporting Code

P195E 16E 4+2 Time Zone Arm Failure - Two digit value from 00-FF Page 105

Keypad "Panic" Alarm 4+2 Reporting Code

P195E 17E Keypad Panic Alarm 4+2 Code - Two digit value from 00-FF Page 105

Keypad "Panic" Alarm 4+2 Restore Reporting Code

P195E 18E Keypad Panic Alarm Restore 4+2 Code - Two digit value from 00-FF Page 105

Keypad "Fire" Alarm 4+2 Reporting Code

P195E 19E Keypad Fire Alarm 4+2 Code - Two digit value from 00-FF Page 105

Keypad "Fire" Alarm 4+2 Restore Reporting Code

P195E 20E Keypad Fire Alarm Restore 4+2 Code - Two digit value from 00-FF Page 105

Keypad "Medical" Alarm 4+2 Reporting Code

P195E 21E Keypad Medical Alarm 4+2 Code - Two digit value from 00-FF Page 105

Keypad "Medical" Alarm 4+2 Restore Reporting Code

P195E 22E Keypad Medical Alarm Restore 4+2 Code - Two digit value from 00-FF Page 105

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 106

"Panic" Alarm SIA Reporting Code

P197E 1E "Panic" Alarm SIA Reporting Code - (Default value = 6, Panic Alarm Event Code PA) Page 106

"Fire" Alarm SIA Reporting Code

P197E 2E "Fire" Alarm SIA Reporting Code - (Default value = 4, Fire Alarm Event Code FA) Page 106

"Medical" Alarm SIA Reporting Code

P197E 3E "Medical" Alarm SIA Reporting Code - (Default value = 5, Medical Alarm Event Code MA) Page 106

Panel Diagnostic & Default Options

Panel Diagnostic & Default Options

Display Panel Software Version Number

P200E 1E Display the Panel Software Version Number

Page 107

Display Keypad Address Number

P200E 2E Display Keypad Address Number

Page 107

Display Areas Assigned to this Keypad

P200E 3E Display Areas Assigned to this Keypad

Page 107

Display Active Time Zones

P200E 4E Display Active Time Zones

Page 107

Display Battery Voltage

P200E 5E Display Battery Voltage

Page 107

Walk Test Mode

P200E 6E Walk Test Mode

Page 108

Write to EEPROM (DTU) Board

P200E 7E Write to EEPROM (DTU) Board

Page 108

Read from EEPROM (DTU) Board

P200E 8E Read from EEPROM (DTU) Board

Page 108

Restore User & Installer Codes plus Telephone Numbers to Defaults

P200E 9E Restore User/Installer Codes & Telephone #'s to Default Values

Page 108

Restore All Factory Defaults

P200E 10E Restore All Factory Defaults

Page 108

Clear Alarm Memory Buffer

P200E 11E Clear Alarm Memory Buffer

Page 108

Initiate a Call to the Call-back

P200E 12E Initiate a Call to the Call-back

Page 108

Read RSSI from Pendants and Wireless Zones

P200E 14E Read RSSI from Pendants and Wireless Zones

Page 108

ESL-2 Quick Start Guide

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:

PIE 1-39E Code 1 is PIE1E and is defaulted to "123". Code 2 is PIE2E, etc up to PIE39E for Code 39.

ENABLE DIALLER:

PI75E 1E By default the dialler is turned off. To turn on the dialler you must turn on Option 1 at address PI75E1E.

TELEPHONE NUMBERS FOR CID REPORTING:

PI81E 1-4E The first CID phone number slot is PI81E1E and the phone number can be up to 16 digits long. The second slot is PI82E2E, etc up to PI81E4E giving 4 Different Phone numbers.

TELEPHONE NUMBERS FOR PERSONAL MONITORING:

PI81E 5-8E The first Personal phone number slot is PI81E5E and the phone number can be up to 16 digits long. The second slot is PI82E6E, etc up to PI81E8E 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:

PI44E 1-16E Zone 1 entry delay is PI44E1E and can be a value of 0-9999 seconds, through to Zone 16 entry delay at address PI44E16E. A value of "0" makes the zone instant.

STAY ENTRY DELAYS:

PI45E 1-16E Zone 1 "Stay Mode" entry delay is PI45E1E and can be a value of 0-9999 seconds, through to Zone 16 "Stay Mode" entry delay at address PI45E16E. 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.

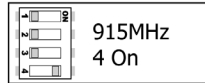
ESL-2 Quick Radio Programming

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

		P5E Options:							
		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							
Program Location		1	2	3	4	5	6	7	8
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

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.

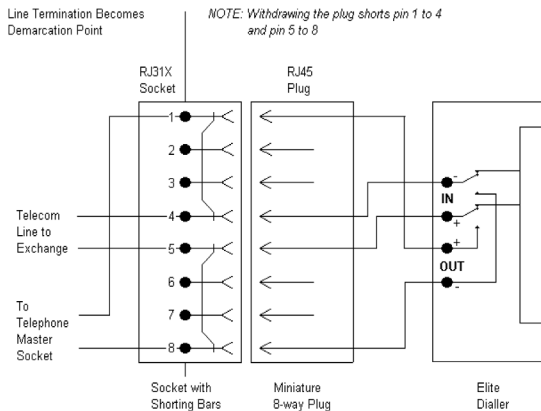
In accordance with the statutory requirements of the Telepermit standards we must bring the following points to your attention;

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 "III" Emergency Service

Contact ID Reporting Code Summary

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 163)	120	001 to 008	Panic at keypad #1-8
Radio-Key Panic	120	021 to 100	Panic by Radio User # 21-100
Keypad Fire (456)	110	001 to 008	Fire Alarm at keypad #1-8
Keypad Medical (769)	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 (I-16E) and Panic/Fire/Medical at P197E (I-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 (<u>programmable P196E</u>)	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 (<u>programmable P197E1E</u>)	PA	PH
Keypad Fire Alarm (<u>programmable P197E2E</u>)	FA	FH
Medical Alarm (<u>programmable P197E3E</u>)	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 IE - IIE were all defaulted to "I" 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 "O" to stop it reporting. The defaults at location P176EIE - P176EIIIE (inclusive) have been changed from a "I" to a "O". Now if any of those options are required they can be enabled by entering a value of "I" 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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