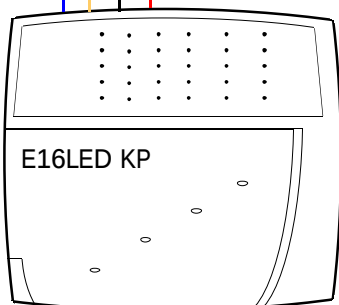
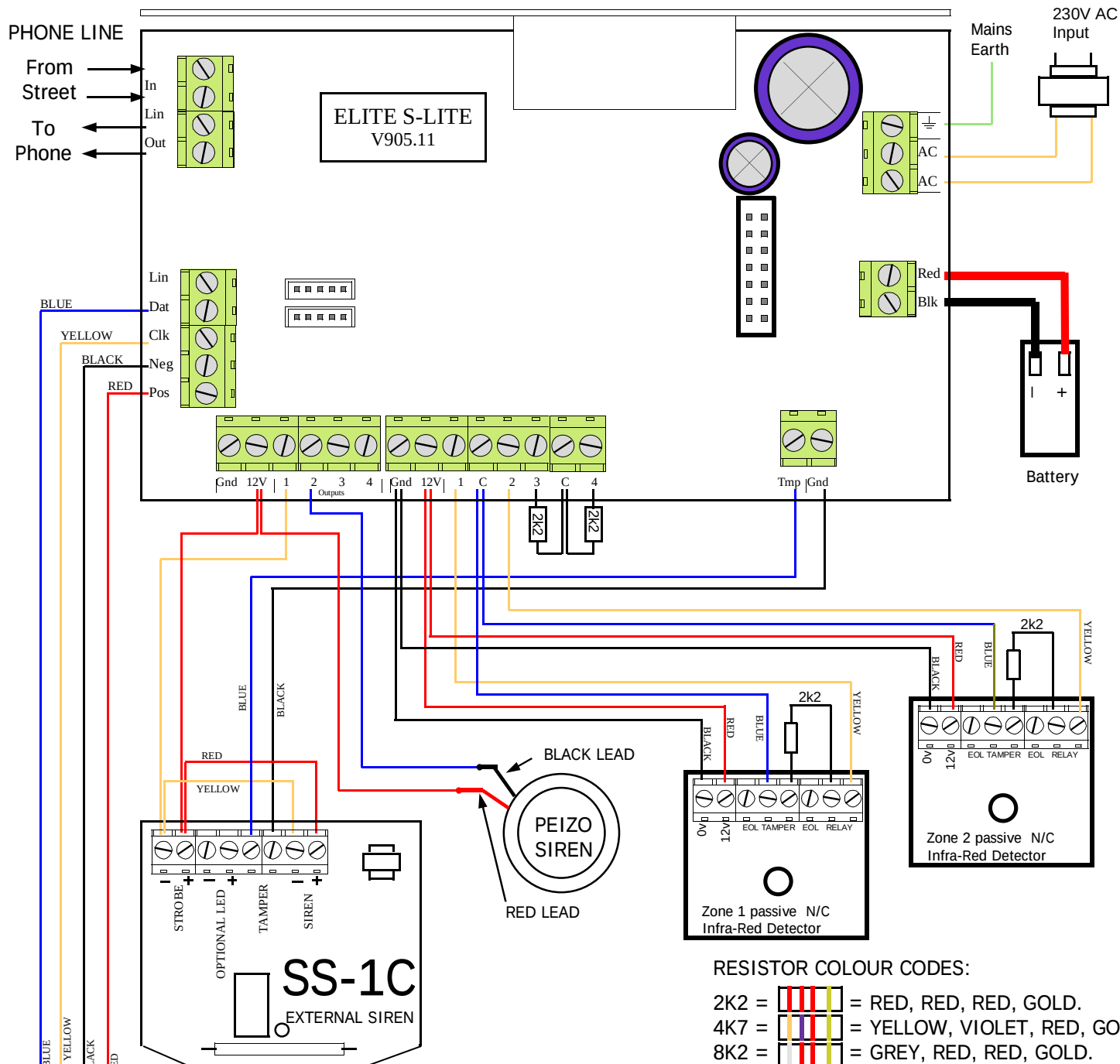


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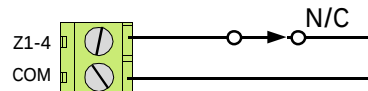
Basic Installation & Programming Guide

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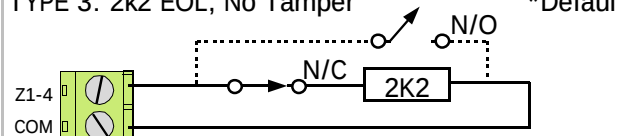


Zone Type Programming: P 125 E 1-8 E (followed by the Type). see page 10 for more options:

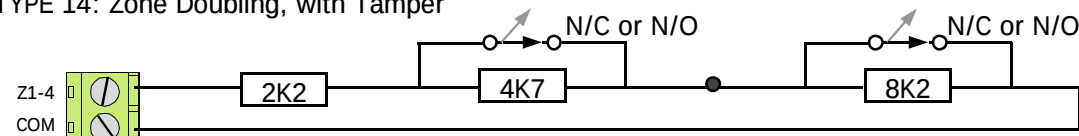
TYPE 0: Sort Circuit, No EOL



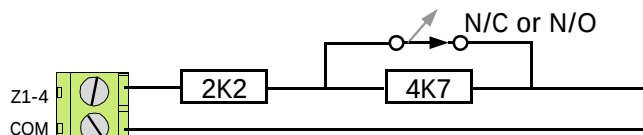
TYPE 3: 2k2 EOL, No Tamper



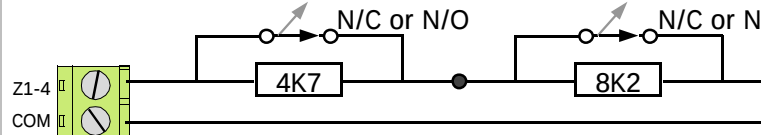
TYPE 14: Zone Doubling, with Tamper



TYPE 12: Alarm & Tamper Monitoring



TYPE 15: Zone Doubling, No Tamper



+++++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 = 0)
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 = 1)
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 = 1,3,4)
1 = Code can Arm Area
2 = Code can arm Stay Mode
3 = Code can Disarm Area
4 = Code can disarm Stay Mode

User Code Privileges

P5E 1-100E Users 1-100 Privileges Page 39
(Default User 1 = 2,3,4,5,6,7,8)
(Default User 2-100 = 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

Radio User Type

P7E 21-100E Radio User 21-100 Type Page 39
(Default = 0)
0 = General Pendant Type
1 = Crow Fremlink Pendant
21 = Ness Pendant

Radio User Privileges

P8E 21-100E Radio Users 21-100 Privileges Page 40
(Default = 1)
1 = Pendant Can Disarm at All Times
2 = Pendant Causes Immediate Panic
3 = Pendant Causes Delayed Panic (1.5 Sec)

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 Page 40
(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

Users to Output Mask

P12E 1-100E User # 1-100 to Output Mask Page 41
(Default = All Off)
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

User can Turn an Output On

P13E 1-100E User # 1-100 Can Turn On an Output Page 41
(Default = All Off)
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

User can Turn an Output Off

P14E 1-100E User # 1-100 Can Turn Off an Output
 (Default = All Off)

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

Page 42

P15E 21-100E Radio # 21-100 Panic Alarm to an O/P
 (Default = 1,2)

Radio Pendant Panic Alarm to an Output

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

P18E 21-100E Learn Radio Pendant Codes for Users 21-100
 (applies if the User Type, P2E, is set to 1)

Learn Radio Pendant Codes

Page 42

P19E 21-100E Delete a Specific Radio Pendant Code for Users 21-100
 (applies if the User Type, P2E, is set to 1)

Delete a Specific Radio Pendant Code

Page 43

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.

Find Radio Pendant memory Location

Page 43

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)

Learn Access Tag/Card Codes

Page 43

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)

Delete a Specific Access Tag/Card Code

Page 43

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.

Find an Access Tag/Card memory Location

Page 43

+++++Miscellaneous Panel & Clock Settings+++++

P25E 1E Installer Code - (Default = 000000)

Installer Code

Page 44

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

Dial Report Delay

Page 44

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

Radio Detector Supervised Timer

Page 44

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

Two Trigger Timer

Page 44

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

Mains Fail Reporting Delay

Page 44

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

Upload/Download Site Code Number

Page 45

P25E 9E Temporary Output Disable - Output 1-8

Temporary Output Disable

Page 45

P25E 10E Misc. Panel Options

Miscellaneous Options

Miscellaneous Panel Options

Page 45

(Default = 2,6)

- 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 or AC has Failed
- 8 = Installer Lockout

Setting Real Time Clock

Page 47

- P26E 1E Real Time Hour/Minute** - Value 0-2359
- 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 = 1 (0 = DLS disabled, 5 = last Sunday of Month) Page 47
- P27E 2E Daylight Saving End Sunday** - Value 0-5 - Default = 3 (0 = DLS disabled, 5 = last Sunday of Month)
- P28E 1E Daylight Saving Start Month** - Value 1-12 - Default = 10
- P28E 2E Daylight Saving End Month** - Value 1-12 - Default = 3
- P29E 1E Daylight Saving Start Hour** - Value 0-23 - Default = 2
- P29E 2E Daylight Saving End Hour** - Value 0-23 - Default = 2

++++++Outputs++++++

Programming Output Options “A”

Page 48

- P34E 1-8E Options “A” for Outputs 1-8** (Default = All Off)
- 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 = “Control” button Can Operate Output
 - 8 = Chime Alarms will Flash this Output (linked to Pulse Timer)

Programming Output Options “B”

Page 48

- 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)
 - 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

Programming Output Options “D”

- P37E 1-8E Options “D” for Outputs 1-8** (Default = All Off)
- 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

Output ON Delay Time

- P38E 1-8E Output 1-8 ON Delay Time** - 0-9999 Seconds (Default = 0 Sec) Page 50

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 50

Output Reset Time

- P40E 1-8E Output 1-8 Reset Time** - 0-9999 Seconds (Default = 300 Sec)
(if option 2 at P37E is on the reset time is in minutes) Page 50

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 50

Start of Output “Command Control” Status Messages

- P42E 1-8E Start message Number for Outputs 1-8 “Command Control”** - 0-99 (Default = 0) Page 50

Un-Map an Output

- P43E 1-8E Un-map Outputs 1-8 (remove ALL Defaults from an Output)** Page 50

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 50

Area "A" & "B" Options A Page 51

- 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)

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

Area "A" & "B" Arm Indication to Output Page 52

- 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")

Area "A" & "B" Stay Arm Indication to Output Page 52

- 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")

Area "A" & "B" Disarm Indication to Output Page 52

- 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")

Area "A" & "B" Pendant (or Access Tag) Arm Chirp to Output Page 52

- 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)**

Area "A" & "B" Pendant (or Access Tag) Stay Arm Chirp to Output Page 53

- 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)**

Area "A" & "B" Pendant (or Access Tag) Disarm Chirp to Output Page 53

- 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)**

Area "A" & "B" Pendant Stay (or Access Tag) Disarm Chirp to Output Page 53

- 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)**

Area "A" & "B" Arm Pulse to Output Page 53

- 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")

Area "A" & "B" Stay Arm Pulse to Output Page 53

- 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")

Area "A" & "B" Disarm Pulse to Output Page 54

- 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")

Area "A" & "B" Stay Disarm Pulse to Output Page 54

- 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")

Area "A" & "B" Armed Mode Exit Delay Beeps to Keypad Page 54

- 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 Off)
(2=Area "B")

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 54
(1=Area "A") (Default Area A = All On, Area B = All Off)
(2=Area "B")

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

P60E 1-2E Area A&B Exit Delay Time - Value 0-255 seconds Page 54
(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 55
(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 55
(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 55
(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 55
(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 56
(1=Area "A") (Default = All Off)
(2=Area "B")

+++++Keypads+++++

Keypad Area Assignment

P71E 1-8E Keypads Assigned To Areas 1 = Area "A" Page 57
(Default = 1,2) 2 = Area "B"

Keypad Button Options

P72E 1-8E Keypad Button Options Page 57
(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

Keypad "ARM" Button Area Assignment

P74E 1-8E Keypad "ARM" Button Area 1 = "ARM" Button assigned to Area "A" Page 58
(Default = 1) 2 = "ARM" Button assigned to Area "B"

Keypad "ARM" Button Area Options

P75E 1-8E Keypad "ARM" Button Opts. Page 59
(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 1 = "STAY" Button assigned to Area "A" Page 59
(Default = 1) 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 (Default = 1)	1 = "A" Button assigned to Area "A" 2 = "A" Button assigned to Area "B"	Page 60
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Keypad "A" Button (Large LCD KP only) Area Options

P79E	1-8E	Keypad "A" Button Opts. (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	Page 61
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Keypad "B" Button (Large LCD KP only) Area Assignment

P80E	1-8E	Keypad "B" Button Area (Default = 2)	1 = "B" Button assigned to Area "A" 2 = "B" Button assigned to Area "B"	Page 61
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Keypad "B" Button (Large LCD KP only) Area Options

P81E	1-8E	Keypad "B" Button Opts. (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	Page 62
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Keypad to Output Mask (for Access Control)

P82E	1-8E	Keypad to Output Mask (Default = All Off)	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	Page 62
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"Control" Button to Output Mask (for Access Control)

P83E	1-8E	Keypad "Control" Button to Output Mask (Default = All Off)	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	Page 63
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"Panic" Button or "1&3" Alarm to Outputs

P84E	1-8E	Keypad "Panic" Button or "1&3" Alarm to Outputs (Default = 1,2)	1 = The Keypad "Panic" Button or "1&3" will turn on Output # 1 2 = The Keypad "Panic" Button or "1&3" will turn on Output # 2 3 = The Keypad "Panic" Button or "1&3" will turn on Output # 3 4 = The Keypad "Panic" Button or "1&3" will turn on Output # 4 5 = The Keypad "Panic" Button or "1&3" will turn on Output # 5 6 = The Keypad "Panic" Button or "1&3" will turn on Output # 6 7 = The Keypad "Panic" Button or "1&3" will turn on Output # 7 8 = The Keypad "Panic" Button or "1&3" will turn on Output # 8	Page 63
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"Fire (4&6)" Alarm to Outputs

P85E	1-8E	Keypad "Fire (4&6)" Alarm to Outputs (Default = 1,2)	1 = The Keypad "Fire (4&6)" Alarm will turn on Output # 1 2 = The Keypad "Fire (4&6)" Alarm will turn on Output # 2 3 = The Keypad "Fire (4&6)" Alarm will turn on Output # 3 4 = The Keypad "Fire (4&6)" Alarm will turn on Output # 4 5 = The Keypad "Fire (4&6)" Alarm will turn on Output # 5 6 = The Keypad "Fire (4&6)" Alarm will turn on Output # 6 7 = The Keypad "Fire (4&6)" Alarm will turn on Output # 7 8 = The Keypad "Fire (4&6)" Alarm will turn on Output # 8	Page 63
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"Medical (7&9)" Alarm to Outputs

P86E	1-8E	Keypad "Medical (7&9)" Alarm to Outputs (Default = 1,2)	1 = The Keypad "Medical (7&9)" Alarm will turn on Output # 1 2 = The Keypad "Medical (7&9)" Alarm will turn on Output # 2	Page 63
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- 3 = The Keypad "Medical (7&9)" Alarm will turn on Output # 3
- 4 = The Keypad "Medical (7&9)" Alarm will turn on Output # 4
- 5 = The Keypad "Medical (7&9)" Alarm will turn on Output # 5
- 6 = The Keypad "Medical (7&9)" Alarm will turn on Output # 6
- 7 = The Keypad "Medical (7&9)" Alarm will turn on Output # 7
- 8 = The Keypad "Medical (7&9)" Alarm will turn on Output # 8

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
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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
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Manually Operated Panic Alarm Beeps to Keypads

P90E	1-8E	Panic Alarm Beeps to Keypads (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	Page 64
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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 (Default = 20 which is 2 Seconds)		Page 65
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Proximity Reader LED to Output Mapping

P98E	1-8E	Proximity Reader LED to Output Mapping (Default = None)	1 = Proximity Reader 1-8 LED will follow the state of Output # 1 2 = Proximity Reader 1-8 LED will follow the state of Output # 2 3 = Proximity Reader 1-8 LED will follow the state of Output # 3 4 = Proximity Reader 1-8 LED will follow the state of Output # 4 5 = Proximity Reader 1-8 LED will follow the state of Output # 5 6 = Proximity Reader 1-8 LED will follow the state of Output # 6 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	Page 65
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Learn Proximity Reader Keypad Address Number

P99E	1-8E	Learn Proximity Reader Keypad Address Number - Value = Keypad Address 1-8 (Default = 20 which is 2 Seconds)		Page 65
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++++++Key-switches++++++

Key-switch Area Assignment

P111E	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 66
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Key-switch Access & Operational Options

P112E	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 66
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+++++ZONES+++++

Programming Zones to Areas

P121E 1-16E Assigning Zones to Areas A or B
(Default = 1)

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1 = Assigned to Area "A"
2 = Assigned to Area "B"

Programming Zone Options A

P122E 1-16E Programming Zone Options A
(Default Zone 1-4 = 1,6,7,8)
(Default Zone 5-16 = 7,8)

(Zone 9-16 are Radio Only Zones)

Page 67

1 = Zone is Active
2 = Zone is N/O (Off = N/C) (reverse entry if option 4 is on.)
3 = Spare
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
(Default = All Off)

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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
(Default = 2)

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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 Type/EOL (End-of-line) Options

P125E 1-4E Programming Zone type/EOL Options
(Default = 3)

Page 69

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

P126E 1-8E Programming Zone Response
(Default = 9)

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(Zone EOL-P125E, 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

P127E 1-16E Programming the Radio Zone Type from the List - Value = 1-35
(Default = 4)

Page 70

0 = Generic
1 = Crow Merlin PIR (supervised signal ignored)
2 = Crow Merlin PIR (supervised signal active)
3 = Fremlink with checksum (supervised signal active)
4 = Fremlink 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

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P128E 1-16E Armed Zone Alarms to Output
 (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

Page 71

P129E 1-16E Armed Stay Mode Zone Alarms to Output
 (Default = 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

Page 72

P130E 1-16E 24 Hour Zone Alarms to Output
 (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

Page 72

P131E 1-16E Chime Zone Alarms to Output
 (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

Page 72

P132E 1-16E Zone Tamper Alarms to Output
 (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

24 Hour Zone Alarm Beeps to Keypads

Page 73

P136E 1-16E 24 Hour Zone Alarm Beeps to Keypads
 (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

Page 73

P137E 1-16E Chime Zone Alarm Beeps to Keypads
 (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

Armed Zone Entry Delay Beeps to Keypads

P142E 1-16E

Armed Zone Entry Delay Beeps to Keypads

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(Default = 1)

- 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 = 1)

- 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

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(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 74

(Default Zones # 1-4 = 20 Seconds, Zones # 5-16 = 0)

Zone Re-trigger Count

P146E 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 74

(Default = 0)

Zone Alarm Voice Message Number

P160E 1-16E

Zone Alarm Voice Message Number - Value-0-99 (Default = 1)

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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.

+++++Time Zones+++++

Programming Holidays

P170E 1-8E

Holidays 1-8 Days - Value = DDMMYY

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Programming Time Zone Days

P171E 1-8E

Time Zones 1-8 Days

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(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)

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P173E 1-8E

Time Zones 1-8 End Time - Value 0000-2359 (Default = 0000)

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Time Zone Options

P174E 1-8E

Time Zone 1-8 Options

Page 77

(Default = All Off)

- 1 = Ignore Holidays
- 2-8 = Spare



Dialler Programming Options

Page 78

P175E 1E

Dialler options

(Default = 7)

- 1 = Dialler is Enabled
- 2 = Fax Defeat
- 3 = Disable Telephone Line Monitoring
- 4 = DTMF or Pulse Dial (**For DTMF, 4&5 must both be OFF**)
- 5 = DTMF or Reverse Pulse Dial (**For DTMF, 4&5 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

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P175E 2E

Dialler options 2

(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

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P175E 3E

Auto-Answer Ring Count - Value 0-99 (Default = 25)

Time to the First Dialler Test Call

Page 79

P175E 4E

Time to the First Dialler Test Call - Value 0000-2359 (Default = 2300)

Test Call Time Period

Page 79

P175E 5E

Test Time Call Period - Value 0-255 Hours: 0 = No Test (Default = 24)

Keypad Listen-in Options

Page 79

P175E 6E

Keypad Listen-in Options

(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

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P175E 7E

Output # 1 Listen-in Options

(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

Dialling Pre-fix Number

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P175E 8E

Dialling Pre-fix Number - Value 1-16 Digits (Default = 0)

Output "Command Control" Code Number

Page 80

P175E 12E

Output Command Control code - Value 1-4 digit code (1-9999) (Default = 0)

Microphone On/Off "Command Control" Code Number

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P175E 13E

Microphone Command Control code - Value 1-4 digit code (1-9999) (Default = 0)

Dialler Acknowledge Code

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P175E 14E

Voice/Domestic Acknowledge Code - Value 1-4 digit code (1-9999) (Default = 0)

Force Test Call Code

Page 81

P175E 15E

Force Test Call Code - Value 1-4 digit code (1-9999) (Default = 0, Feature disabled)

Programming Voice Board Messages

P176E 1E

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

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P176E 2E

"Fire" Alarm Voice Message Number - Value 0-99 (Default = 1)

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P176E 3E

"Medical" Alarm Voice Message Number - Value 0-99 (Default = 1)

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P176E 4E

"Mains Failure" Voice Message Number - Value 0-99 (Default = 1)

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P176E	5E	"Mains Restore" Voice Message Number - Value 0-99 (Default = 1)	Page 81
P176E	6E	"Battery Low" Voice Message Number - Value 0-99 (Default = 1)	Page 81
P176E	7E	"Battery Restored" Voice Message Number - Value 0-99 (Default = 1)	Page 81
P176E	8E	"Tamper" (Zone/Radio/System) Voice Message Number - Value 0-99 (Default = 1)	Page 81
P176E	9E	"Duress Alarm" Voice Message Number - Value 0-99 (Default = 1)	Page 81
P176E	10E	"Latchkey Disarm" Voice Message Number - Value 0-99 (Default = 1)	Page 81
P176E	11E	"Manual Test Initiated" Voice Message Number - Value 0-99 (Default = 1)	Page 81

+++++Telephone Numbers+++++

P181E	1-8E	Programming Telephone Numbers - Value 1-16 Digits (Default = 0)	Page 82
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Telephone Number Reporting Formats

P182E	1-8E	Telephone Number Reporting Formats (Default = 1) 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	Page 82
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Telephone Number Reporting Options

P183E	1-8E	Telephone Number Reporting Options (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	Page 83
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Maximum Dial Attempts per Telephone Number

P184E	1-8E	Maximum Dial Attempts per Telephone Number - Value 0-99 (Default = 20)	Page 84
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Dialler Reporting Options A

P186E	1-8E	Dialler Options A (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	Page 84
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Dialler Reporting Options B

P187E	1-8E	Dialler Options B (Default = All On) 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 84
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Dialler Reporting Options C

P188E	1-8E	Dialler Options C (Default = 1,6,8) 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 85
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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	Page 86
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+++++Panel Diagnostic & Default Options+++++

		Display Panel Software Version Number		Page 91
P200E	1E	Display the Panel Software Version Number		
		Display Keypad Address Number		Page 91
P200E	2E	Display Keypad Address Number		
		Display Areas Assigned to this Keypad		Page 91
P200E	3E	Display Areas Assigned to this Keypad		
		Display Active Time Zones		Page 91
P200E	4E	Display Active Time Zones		
		Display Battery Voltage		Page 91
P200E	5E	Display Battery Voltage		
		Walk Test Mode		Page 91
P200E	6E	Walk Test Mode		
		Write to EEPROM (DTU) Board		Page 91
P200E	7E	Write to EEPROM (DTU) Board		
		Read from EEPROM (DTU) Board		Page 91
P200E	8E	Read from EEPROM (DTU) Board		
		Restore User & Installer Codes plus Telephone Numbers to Defaults		Page 92
P200E	9E	Restore User/Installer Codes & Telephone #'s to Default Values		
		Restore All Factory Defaults		Page 92
P200E	10E	Restore All Factory Defaults		
		Clear Alarm Memory Buffer		Page 92
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		Initiate a Call to the Call-back		Page 92
P200E	12E	Initiate a Call to the Call-back		



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