ECi
(248 Zone Control Communicator) **ECi**

Arrowhead
Alarm Products Ltd

Program Summary
Guide

Proudly Designed and Manufactured in New Zealand

SOFTWARE VERSION

This manual relates to ECi control panels with software version **V10.3.47** and above

Special Programming Operating Procedures

Programming addresses that have 32 options (Areas, Outputs & Keypads)

When in Program mode there are many program addresses (eg P3E) where there are 32 options that can be selected. When in these locations the selection is always a two digit number, eg at P3E you can select up to 32 areas, if you wanted to select areas 1, 5 , 9 ,10, & 15 the data entries would be 01, 05, 09, 10, 15.

If you wanted to select all 32 you can press and hold the "9" button for 2 seconds to turn on all 32 options, if you wanted to turn them all off you can press and hold the "0" button for 2 seconds to turn them all off.

Deleting User codes, Account Codes, Telephone Numbers, etc

If a numeric entry such as user codes, monitoring account codes, telephone numbers, etc, needed to be deleted you can press and hold the <Control> button then press the <0> button (maintained for compatibility with the current ELITE S operation) or you can press and hold the <0> button for 3 seconds to delete the entry.

Programming LCD custom text

All LCD text is stored in the control panel memory and transferred to all keypads so the panel remains the master database at all times. If user text is changed (eg User Name, Area Name, Output Name, etc) the new text is broadcast to every LCD keypad on the bus as soon as the enter button is pressed to save the changes so all keypads have the new text immediately. If a new LCD keypad is added to the system the panel broadcasts the CRC's for all of the text blocks so the keypads can compare their CRC with the panels. If there is a difference in the CRC's indicating that the LCD and panel text don't match a request is made by the keypad to download all text blocks where the CRC's don't match ensuring all keypads stay up to date with the panel. This task is carried out in the back ground and does not have to be initiated by the installer or end user.

Key-switch Programming

The Key-switch function has now been moved to being a zone function. If any arm/disarm option is turned on at P120E the associated zone will now be a key-switch, eg P120E48E options 1 & 3 turned on would mean that zone 48 is now a key-switch that can arm and disarm the area/s assigned at P121E48E.

LCD Keypad Operational Mode

The full LCD keypad will always show "Areas Armed" as soon as any area associated with the keypad is armed. If option 4 is off at P96E for the associated keypad the "Areas Armed" will show one area at a time on the bottom line of the display. The full Area name will be shown. The area names will cycle through showing all currently armed areas. An armed area could be fully armed or stay armed. If some areas associated with the keypad are not armed the "Ready LED" will still turn off when zones are unsealed but they will not be displayed while "Areas Armed" is on. To see any unsealed (not Ready) zones you can press the "Enter" button to switch to the zone display menu. After 10 seconds of no button presses the display will revert back to the "Areas Armed" display. Alternatively if the "Down Arrow" button is pressed while the display is showing "Areas Armed" the display will change from showing the individual area names to area numbers. Up to 7 two digit area numbers can be displayed on the bottom line. If there are more than 7 areas armed the display will cycle through 7 area numbers at a time repeating the cycle once it has shown all areas. By repeatedly pressing the "Down Arrow" the user can control what areas are displayed on the bottom line. If the "Down Arrow" is not pressed for 15 seconds the display will revert back to normal.
If option 4 is on at P96E for the associated keypad the "Areas Armed" will show up to 7 area numbers on the bottom line and will cycle through the list if more than 7 areas are armed. If the "Down Arrow" button is pressed the user can control what areas are displayed on the bottom line. If the "Down Arrow" is not pressed for 15 seconds the display will revert back to normal.

ECi BULK COPY FUNCTION

There are a number of program locations where selected program data can be copied to a range of similar program addresses. The list of these program locations is shown below. As an example if user 100 was set up as a template and users 101 to 200 were to all have the same program options, by entering in P17E 100E followed by 101E then 200E the panel will copy all of the programmed data for user 100 to users 101 to 200. This feature can be performed multiple times, eg user 250 could be set up as a template then it could be copied to users 251 to 300.

Bulk COPY a User to a range of Users

P17E   Template User #E Start User #E End User #E Bulk COPY a User to a range of USERS

Bulk COPY an Output to a range of Outputs

P30E   Template Output #E Start Output #E End Output #E Bulk COPY an Output to a range of OUTPUTS

Bulk COPY an Area to a range of Areas

P70E   Template Area #E Start Area #E End Area #E Bulk COPY an Area to a range of AREAS

Bulk COPY a Keypad to a range of Keypads

P97E   Template Keypad #E Start Keypad #E End Keypad #E Bulk COPY a Keypad to a range of KEYPADS

Bulk COPY a Zone to a range of Zones

P118E   Template Zone #E Start Zone #E End Zone #E Bulk COPY a Zone to a range of ZONES

ECi LCD TEXT PROGRAM SUMMARY GUIDE

There are a number of program locations where custom text names can be programmed. These custom text names are used by the LCD keypad when displaying area names when armed and also when viewing events in memory mode.

P16E	**1-2000E**	**Program LCD KP "User" Name Text**	Program LCD KP "User" Name
P25E	**14E**	**This location is where the LCD KP "Idle" Display Name can be Programmed.**	LCD KP "Idle" Display Name
P31E	**1-32E**	**Program LCD KP "Output" Name Text**	Program LCD KP "Output" Name
P69E	**1-32E**	**Program LCD KP "Area" Name Text**	Program LCD KP "Area" Name
P100E	**1-32E**	**Program LCD KP "Keypad" Name Text**	Program LCD KP "Keypad" Name
P169E	**1-64E**	**Program LCD KP "Zone" Name Text**	Program LCD KP "Zone" Name

DTMF COMMAND CONTROL SEQUENCE

If DTMF Command Control has been enabled the operation is performed as follows.

Call the control panel.
When the panel answers it will play the message "Enter your code followed by the # key".
At that point enter in your DTMF Code (program location P63E for Area Arm/Disarm or P175E12E for Output control) followed by the # key on the phone.

DTMF Arming and Disarming
If for example the DTMF code to remotely arm and disarm Area 1 (P63E1E) was 1234 and Area 1 was disarmed, when you enter the Area 1 DTMF code;
1234 # - (you will hear the message "Area 1 Disarmed")

If you then press the * key it will change the state or Area 1, eg
* - (you will hear the message "Area 1 Armed")

DTMF Output Control
If for example the DTMF code to remotely control Outputs (P175E12E) was 9876 and you were controlling Output 1 (which was currently Off), when you enter the Output DTMF code followed by output 1 (01);
9876 01 # - (you will hear the message "Output 1 Off")

If you then press the * key it will change the state of Output 1, eg
* - (you will hear the message "Output 1 On")

Exiting DTMF Control Mode
When all DTMF remote control functions are completed you can either hang up the phone and the control panel will hang up automatically in 15 seconds or you can press;

00 # - (you will hear "Goodbye") and the panel will hang up immediately.

DISPLAY APP SERIAL #, IP & MAC ADDRESS AT KEYPAD

When the panel is in normal mode (ie not in program mode) it is possible to display via the EC-LCD the currently assigned IP address for the panel, the MAC address, and the app Serial number. There is a similar display function using the Service menu on an EC-TOUCH but it must have Version 8.05.220414 or later firmware.

To view the APP Serial Number
At the LCD keypad press and hold the <7> button for 4 seconds until the display shows the panels APP Serial number. To exit the display mode press the <ENTER> button.

To view the MAC Address
At the LCD keypad press and hold the <8> button for 4 seconds until the display shows the panels MAC address. To exit the display mode press the <ENTER> button.

To view the IP Address
At the LCD keypad press and hold the <9> button for 4 seconds until the display shows the panels IP address. To exit the display mode press the <ENTER> button.

DISPLAY CURRENT PATH To The INTERNET

When the panel is in normal mode (ie not in program mode) it is possible to display via the EC-LCD the current path the panel is using to connect to the internet. This function was released at firmware version 10.3.42.

To view the Current Internet Path
At the LCD keypad press and hold the <6> button for 4 seconds until the display shows the panels Internet path. The options are "Ethernet" or "4G". To exit the display mode press the <ENTER> button.

Automatic Control of Doors

When there is a need to unlock a controlled door during the day and keep it unlocked, this can be achieved two ways. The first is to program a Time Zone to the output (P44E), the second is to program the area disarm indication to the output (P49E).

Unlock on a Time Zone
Any of the 32 Time-zones can be assigned to outputs 1-32. This function can be used to unlock a controlled door so the door will remain unlocked while the T/Z is on and relock it when the T/Z is off allowing normal timed access control through the door when the T/Z is inactive. If a TZ has turned an Output ON the TZ will override any reset time programmed for the Output. A TZ can be linked to holidays (P174E option 1 Off) so that the TZ will not unlock the door when a holiday is active. The reset, pulse or chime timers can resume controlling the Output once the TZ has ended and the output is OFF. The CONTROL to Output function is the only operation that can override the Output while the TZ is active (see additional comment below).

Unlock when Disarmed
Each Area can have a disarm indication assigned to an output to unlock a controlled door so the door will remain unlocked while the alarm is disarmed and relock it when the alarm is armed allowing normal timed access control through the door afterhours. This function allows a door to be unlocked only when the premises are occupied and relocked when the premises are vacated (ie the alarm is armed). If an Area Disarm has turned an Output ON this will override any reset time programmed for the Output. The reset, pulse or chime timers can resume controlling the Output once the Area is armed and the output is OFF. The CONTROL to Output function is the only operation that can override the Output while disarmed (see additional comment below).

<CONTROL> override of an unlocked door
When an output is on because a TZ is active or the alarm is disarmed the output will stay on until the TZ is inactive or the alarm is armed.
At times there may be reasons why the door needs to be locked even if a TZ is active or the alarm is disarmed, (eg an employee is at work on a public holiday and the alarm is disarmed but they want the door to be locked).
Under these special conditions it is possible to program the output connected to the door so that it can be controlled using the <CONTROL> button at the keypad closest to the controlled door. At Program address P83E the output controlling the door can be assigned to a keypad close to the controlled door. By pressing the control button for 2 seconds (option 8 must be on at P96E to allow direct control of the output) the door control can be overridden. If the control button is pressed for another 2 seconds it will unlock the door again.

ECi PROGRAM SUMMARY GUIDE
✚✚✚✚✚Users ✚✚✚✚✚

Programming User Codes

P1E 1-2000E User Code 1-2000 - Default for User Code # 1 (P1E1E) = 123   Codes can be 1-6 or 4-6 digits.
(where 1E = User Code #1 to 2000E = User Code #2000)

NOTE: The 2000 Users can be keypad Code, Radio or Access key Users. They can be mixed but the Maximum is 2000 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 1-2000E User # 1-2000 Type -
(Default = 0)

0 = Keypad Code User {PIN}
1 = Radio User (Users 101-2000 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 1-2000E User # 1-2000 Area -
(Default = 1)

01-32 = Assigned to Area 1-32

User Code Access Options

P4E 1-2000E Users 1-2000 Access Options
(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
5 = Code is a Security Guard Code
6 = Code will Arm Latchkey Mode
7 = User can reset latched Egress Outputs
8 = Can View Event Memory

User Code Privileges

P5E 1-2000E Users 1-2000 Privileges
(Default User 1 = 2,3,4,5,6,7,8)
(Default User 2-2000 = 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 = Spare

User Code Misc Options

P6E 1-2000E Users 1-2000 Misc Opts

1 = User is excluded from Global trouble reset (P25E10E)

Radio User Type

P7E 101-2000E Radio User 101-2000 Type
(Default = 0)

0 = General Pendant Type
1 = Infinity Pendant
21 = Ness Pendant

Radio User Privileges

P8E 101-2000E Radio Users 101-2000 Privileges
(Default = 1)

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 101-2000)
6 = Spare
7 = Spare
8 = Spare

Schedule Assigned to a User

P9E 1-2000E Schedule to User # 1-2000
(Default = All Off)

01 = User Controlled by Schedule # 1
02 = User Controlled by Schedule # 2
03 = User Controlled by Schedule # 3
04 = User Controlled by Schedule # 4
05 = User Controlled by Schedule # 5
06 = User Controlled by Schedule # 6
07 = User Controlled by Schedule # 7
08 = User Controlled by Schedule # 8
â
32 = User Controlled by Schedule # 32

User Activates Dormant Schedule

P1032E 1-2000E User Activates Schedule # 1-2000
(Default = All Off)

01 = User Activates Schedule # 1
02 = User Activates Schedule # 2
03 = User Activates Schedule # 3
04 = User Activates Schedule # 4
05 = User Activates Schedule # 5
06 = User Activates Schedule # 6
07 = User Activates Schedule # 7
08 = User Activates Schedule # 8
â
32 = User Activates Schedule # 32

Access Group for User 1-2000

P1033E 1-2000E Access Group for User # 1-2000
(Default = 0)

Value = Access group 1-32

User to Keypad Assignment

P10E 1-2000E User # 1-2000 Keypad Assignment
(Default = All On)

01 = Can Operate at Keypad # 1
02 = Can Operate at Keypad # 2
03 = Can Operate at Keypad # 3
04 = Can Operate at Keypad # 4
05 = Can Operate at Keypad # 5
06 = Can Operate at Keypad # 6
07 = Can Operate at Keypad # 7
08 = Can Operate at Keypad # 8
â
32 = Can Operate at Keypad # 32

Radio Pendant Panic Beeps to Keypad

P11E 101-2000E Radio # 101-2000 Panic Beep to Keypad
(Default = All On)

01 = A Radio panic will Beep at Keypad # 1
02 = A Radio panic will Beep at Keypad # 2
03 = A Radio panic will Beep at Keypad # 3
04 = A Radio panic will Beep at Keypad # 4
05 = A Radio panic will Beep at Keypad # 5
06 = A Radio panic will Beep at Keypad # 6
07 = A Radio panic will Beep at Keypad # 7
08 = A Radio panic will Beep at Keypad # 8
â
32 = A Radio panic will Beep at Keypad # 32

User can Turn an Output On

P13E 1-2000E User # 1-2000 Can Turn On an Output
(Default = All Off)

01 = User Can Turn on Output # 1
02 = User Can Turn on Output # 2
03 = User Can Turn on Output # 3
04 = User Can Turn on Output # 4
05 = User Can Turn on Output # 5
06 = User Can Turn on Output # 6
07 = User Can Turn on Output # 7
08 = User Can Turn on Output # 8
â
32 = User Can Turn on Output # 32

User can Turn an Output Off

P14E 1-2000E User # 1-2000 Can Turn Off an Output
(Default = All Off)

01 = User Can Turn off Output # 1
02 = User Can Turn off Output # 2
03 = User Can Turn off Output # 3
04 = User Can Turn off Output # 4
05 = User Can Turn off Output # 5
06 = User Can Turn off Output # 6
07 = User Can Turn off Output # 7
08 = User Can Turn off Output # 8
â
32 = User Can Turn off Output # 32

Radio Pendant Panic Alarm to an Output

P15E 101-2000E Radio # 101-2000 Panic Alarm to an O/P
(Default = 1,2)

01 = Radio panic to Output # 1
02 = Radio panic to Output # 2
03 = Radio panic to Output # 3
04 = Radio panic to Output # 4
05 = Radio panic to Output # 5
06 = Radio panic to Output # 6
07 = Radio panic to Output # 7
08 = Radio panic to Output # 8
â
32 = Radio panic to Output # 32

Program LCD KP "User" Name

P16E 1-2000E Program LCD KP "User" Name Text

Bulk COPY a User to a range of Users

P17E Template User #E Start User #E End User #E Bulk COPY a User to a range of USERS

Learn Radio Pendant Codes

P18E 101-2000E Learn Radio Pendant Codes for Users 101-2000
(applies if the User Type, P2E, is set to 1)

Delete a Specific Radio Pendant Code

P19E 101-2000E Delete a Specific Radio Pendant Code for Users 101-2000
(applies if the User Type, P2E, is set to 1)

Find Radio Pendant memory Location

P20E ENTER Enter this address then operate the Radio Pendant to find its user #
(applies if the User Type, P2E, is set to 1). After P20E press enter to start the find process.

Learn Access Tag/Card Codes

P21E 1-2000E Learn Access Tag/Card Codes for Users 1-2000
(applies if the User Type, P2E, is set to 2, 3 or 4)

P22E   **1-2000E**   **Delete a Specific Access Tag/Card Code for Users 1-2000**
(applies if the User Type, P2E, is set to 2, 3 or 4)

P23E   **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). After P23E press enter to start the find process.

P24E   **1-2000E**   **Enter this address then type in the 10 digit printed card/tag number #**

P1025E 1-2000E   **A value of 1-254 equals the number of times it can be used. 255 = always.**

P1026E 1-2000E   **DD:MM:YY The date a Code/Tag/Radio User will start to function.**

P1027E 1-2000E   **DD:MM:YY The date a Code/Tag/Radio User will cease to function.**

P1028E 1-2000E   **HH:MM The time a Code/Tag/Radio User will start to function.**

P1029E 1-2000E   **HH:MM The time a Code/Tag/Radio User will cease to function.**

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

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

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

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

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

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

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

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

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

P25E   **9E**   **Temporary Output Disable -** Output 1-32

P25E   **10E**   **Misc. Panel Options**   **Miscellaneous Options**
(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 = Globally reset trouble alarms
- 5 = Cannot arm the alarm if Receiver fail mode is active
- 6 = Enable iPSU AC and Battery Low monitoring
- 7 = Cannot arm if the system battery is low
- 8 = Installer Lockout

P25E   **11E**   **Installer Options**
(Default = All Off)
- 1 = Installer <u>MUST</u> enter program mode via Client mode to reset confirmed alarms
- 2 = Installer <u>MUST</u> enter program mode via Client mode to reset tamper alarms
- 3 = Installer <u>MUST</u> enter program mode via Client mode to reset low battery alarms
- 4 = Installer <u>MUST</u> enter program mode via Client mode to reset 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

P25E   **12E**   **User Options (NOTE: This Option can ONLY be accessed from Client Mode)**
(Default = All Off)   1 = Hide User Codes from Installer

P25E   **13E**   **Misc. User Options**   **Miscellaneous User Options**
(Default = None)
- 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 = Keypad LED's and Backlight off on no activity
                    6 = Use new multi-area arming method
                    7 = Enable Keypad Tamper Switch Alarms
                    8 = Spare
```

LCD KP "Idle" Display Name

P25E 14E **This location is where the LCD KP "Idle" Display Name can be Programmed.**

Webpage "Incorrect Login" Count

P25E 15E **0-255. If this address is set to 0 there is no incorrect login count. If set from 1-255, that is the number of incorrect login attempts before the webpage access is locked out.**

Webpage "Incorrect Login" Lockout Time

P25E 16E **0-9999. If this address is set to 0 there is no lockout time if the programmed count at P25E15E is exceeded. If set from 1-9999, that is the time in seconds that all webpage access will be locked out for.**

World Time Zone

P25E 17E **World Time Zone**

Program Mode/Arming Options

P25E 18E **Prog/Arm Options**   **Program Mode/Arming Options**
(Default = None)   1 = Can enter program mode when another area is armed
    2 = Can arm when a keypad in a different area is in program mode
    3 = Serial over IP Authentication Required
    4 = Disable Tamper to Output when disarmed
    8 = Hide extended information in the memory events

Serial over IP User Name

P25E 19E **Serial over IP User Name** (maximum 16 characters)

Serial over IP Password

P25E 20E **Serial over IP Password** (maximum 16 characters)

Serial over IP User Timeout

P25E 21E **Serial over IP User Timeout** (Default = 300, 10-600 seconds)

KP Bus Device Alarms

P25E 22E **KP Bus Device Alarms**   **KP Bus Device Alarm Options**
(Default = None)   1 = Disable Zone Expander missing and tamper Alarms
    2 = Disable Output Expander missing and tamper Alarms
    3 = Disable Access board IF-2 missing and tamper Alarms

LCD Keypad Language Selection

P25E 23E **LCD KP Languages**   **LCD Keypad language Selection**
(NOTE: Use left/right arrow keys to select)
(Default = English)   1 = English
    2 = Turkish
    3 = Romanian
    4 = Greek

Setting Real Time Clock

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.
NOTE: If option 3 at P201E4E is turned on (panel clock synced to the internet time) the above time and date settings cannot be altered.

Daylight Saving settings

P27E 1E **Daylight Saving Start Sunday -** Value 0-5 - Default = 5 (0 = DLS disabled, 5 = last Sunday of Month)
      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 (0 = DLS disabled)
      2E **Daylight Saving End Month -** Value 1-12 - Default = 4 (0 = DLS disabled)
P29E 1E **Daylight Saving Start Hour -** Value 0-23 - Default = 2
      2E **Daylight Saving End Hour -** Value 0-23 - Default = 3

+++++Outputs+++++

Bulk COPY an Output to a range of Outputs

P30E   Template O/P #E Start O/P #E End O/P #E Bulk COPY an Output to a range of OUTPUTS

Program LCD KP "Output" Name

P31E   **1-32E**   **Program LCD KP "Output" Name Text**

Program Output Volume when Disarmed

P33E   **1-2E**   **The Volume of O/P 1 & 2 when the alarm is disarmed can be set to a value of 1-8**

Program Access Groups

P3101E 1-32E	**Output #1 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3102E 1-32E	**Output #2 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3103E 1-32E	**Output #3 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3104E 1-32E	**Output #4 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3105E 1-32E	**Output #5 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3106E 1-32E	**Output #6 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3107E 1-32E	**Output #7 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3108E 1-32E	**Output #8 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3109E 1-32E	**Output #9 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3110E 1-32E	**Output #10 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3111E 1-32E	**Output #11 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3112E 1-32E	**Output #12 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3113E 1-32E	**Output #13 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3114E 1-32E	**Output #14 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3115E 1-32E	**Output #15 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3116E 1-32E	**Output #16 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3117E 1-32E	**Output #17 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3118E 1-32E	**Output #18 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3119E 1-32E	**Output #19 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3120E 1-32E	**Output #20 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3121E 1-32E	**Output #21 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3122E 1-32E	**Output #22 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3123E 1-32E	**Output #23 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3124E 1-32E	**Output #24 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3125E 1-32E	**Output #25 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3126E 1-32E	**Output #26 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3127E 1-32E	**Output #27 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3128E 1-32E	**Output #28 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3129E 1-32E	**Output #29 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3130E 1-32E	**Output #30 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3131E 1-32E	**Output #31 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7
P3132E 1-32E	**Output #32 Access Group 1-32 assigned Schedule 1-32,**	0=NONE, 33 = 24/7

Programming Output Options "A"

P34E   **1-32E**   **Options "A" for Outputs 1-32**
(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"

P35E   **1-32E**   **Options "B" for Outputs 1-32**
(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

Programming Output Options "C"

P36E   **1-32E**   **Options "C" for Outputs 1-32**
(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 = Output indicates In-coming phone call.
7 = Play Doorbell tone on a Chime zone trigger
8 = IP Fail (Timed)

Programming Output Options "D"

P37E **1-32E** **Options "D" for Outputs 1-32** 1 = Siren Driver to Output (requires a horn speaker, outputs 1&2)
(Default = All Off) 2 = Output Chime timer is in minutes (off for 1/10th sec)
3 = Output 'silenced' for 10 seconds on key-press if alarm
4 = Turn Output OFF during Two Way Voice Mode
5 = Spare
6 = Pulse output when exit delay to Output (P65E) is running
7 = Output follows "Global Fire Egress Zone"
8 = Monitored Output (can tell if siren cable is cut, outputs 1&2 only)

Output ON Delay Time

P38E **1-32E** **Output 1-32 ON Delay Time -** 0-9999 Seconds (Default = 0 Sec)

Output Pulse Time

P39E **1-32E** **Output 1-32 Pulse Time -** 0-255;1/10th Sec increments (Default =2 which is 0.2 sec)

Output Reset Time

P40E **1-32E** **Output 1-32 Reset Time -** 0-65535 Seconds (Default = 300 Sec)

Output Chime Mode Time

P41E **1-32E** **Output 1-32 Chime Timer -** 0-9999;1/10th Sec increments (Default =10 which is 1 sec)

IP Fail Re-Trigger Timer

P42E **1-32E** **IP Fail Re-Trigger Timer -** 0-9999 Seconds

Un-Map an Output

P43E **1-32E** **Un-map Outputs 1-32 (remove ALL Defaults from an Output)**

Assigning a Schedule to an Output

P44E **1-32E** **Schedules that will control Outputs 1-32 -** Value = Schedule 01-32 (Default = All Off)
(NOTE: If a Schedule has turned an Output ON the Schedule will override any reset time programmed for the Output. The reset, pulse or chime timers can resume controlling the Output once the Schedule has ended and the output is OFF. The CONTROL to Output function is the only operation that can override the Output while the Schedule is active.)

Assign INFINITY OUTPUT to ECi Output

P99E **1-32E** **Assign Output 1-32 to INFINITY Output**

+++++Areas+++++

Area 1-32 Options A

P45E **1-32E** **Area 1-32 Options A** 1 = Arm Button Required Before Code to Set
(Default = All Off) 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 1-32 Options B

P46E **1-32E** **Area 1-32 Options B** 1 = Near and Confirmed Alarm reporting for All zones in this Area (CID only)
(Default = All Off) 2 = Area will arm at end of schedule
3 = Area will disarm at beginning of schedule
4 = Assign Chirps to Access tags
5 = Spare
6 = Inhibit Arming if zone unsealed while Exit Delay is Active.
7 = Cannot Arm if Zone Unsealed at end of Exit Delay
8 = Arm on no Activity

Area 1-32 Arm Indication to Output

P47E **1-32E** **Area 1-32 Arm Indication to Output -** Value 01-32 (for Outputs 1-32)
(Default = All Off)

Area 1-32 Stay Arm Indication to Output

P48E **1-32E** **Area 1-32 Stay Arm Indication to Output -** Value 01-32 (for Outputs 1-32)
(Default = All Off)

Area 1-32 Disarm Indication to Output

P49E **1-32E** **Area 1-32 Disarm Indication to Output -** Value 01-32 (for Outputs 1-32)
(Default = All Off)
(NOTE: If an Area Disarm has turned an Output ON this will override any reset time programmed for the Output. The reset, pulse or chime timers can resume controlling the Output once the Area is armed and the output is OFF. The CONTROL to Output function is the only operation that can override the Output while disarmed.)

Area 1-32 Pendant (or Access Tag) Arm Chirp to Output

P50E **1-32E** **Area 1-32 Arm Chirp to Output -** Value 01-32 (for Outputs 1-32)
(Default = All Off) **(One chirp to the output for arm)**

Area 1-32 Pendant (or Access Tag) Stay Arm Chirp to Output

P51E **1-32E** **Area 1-32 Stay Arm Chirp to Output -** Value 01-32 (for Outputs 1-32)
(Default = All Off) **(One chirp to the output for stay arm)**

Area 1-32 Pendant (or Access Tag) Disarm Chirp to Output

P52E   **1-32E**   **Area 1-32 Disarm Chirp to Output** - Value 01-32 (for Outputs 1-32)
(Default = All Off)   **(Two chirps to the output for disarm)**

Area 1-32 Pendant Stay (or Access Tag) Disarm Chirp to Output

P53E   **1-32E**   **Area 1-32 Stay Disarm Chirp to Output** - Value 01-32 (for Outputs 1-32)
(Default = All Off)   **(Two chirps to the output for disarm)**

Area 1-32 Arm Pulse to Output

P54E   **1-32E**   **Area 1-32 Arm Pulse to Output** - Value 01-32 (for Outputs 1-32)
(Default = All Off)

Area 1-32 Stay Arm Pulse to Output

P55E   **1-32E**   **Area 1-32 Stay Arm Pulse to Output** - Value 01-32 (for Outputs 1-32)
(Default = All Off)

Area 1-32 Disarm Pulse to Output

P56E   **1-32E**   **Area 1-32 Disarm Pulse to Output** - Value 01-32 (for Outputs 1-32)
(Default = All Off)

Area 1-32 Stay Disarm Pulse to Output

P57E   **1-32E**   **Area 1-32 Stay Disarm Pulse to Output** - Value 01-32 (for Outputs 1-32)
(Default = All Off)

Area 1-32 Armed Mode Exit Delay Beeps to Keypad

P58E   **1-32E**   **Area 1-32 Armed Exit Delay Beeps to Keypad** - Value 01-32 (for Keypads 1-32)
(Default, Area 1 = All On, Areas 2-32 = All Off)

Area 1-32 Stay Mode Exit Delay Beeps to Keypad

P59E   **1-32E**   **Area 1-32 Stay Exit Delay Beeps to Keypad** - Value 01-32 (for Keypads 1-32)
(Default Area 1 = All On, Areas 2-32 = All Off)

Area 1-32 Armed Exit Delay Time

P60E   **1-32E**   **Area 1-32 Exit Delay Time** - Value 0-255 seconds
(Default = 30 Seconds for all Areas)

Area 1-32 Stay Armed Exit Delay Time

P61E   **1-32E**   **Area 1-32 Stay Exit Delay Time** - Value 0-255 seconds
(Default = 30 Seconds for all Areas)

Area 1-32 Monitoring Account Code Number

P62E   **1-32E**   **Area 1-32 Account Code** - Value 0000-FFFF
(Default = 0000 for all Areas)

Area 1-32 Remote "Command Control" Code Number

P63E   **1-32E**   **Area 1-32 Command Control code** - Value 1-4 digit code (1-9999)
(Default = No code for all Areas)

Start Message Number for Areas 1-32 "Command Control"

P64E   **1-32E**   **Reserved for future use.**

Area 1-32 Armed Mode Exit Delay to Output

P65E   **1-32E**   **Area 1-32 Armed Exit Delay to Output** - Value 01-32 (for Outputs 1-32)
(Default = All Off)

Area 1-32 Stay Mode Exit Delay to Output

P66E   **1-32E**   **Area 1-32 Stay Exit Delay to Output** - Value 01-32 (for Outputs 1-32)
(Default = All Off)

Area 1-32 Delinquency Delay

P67E   **1-32E**   **Area 1-32 Delinquency Delay** - value 0-99 Days, (0 = Off)
(Default = 0 for all Areas)

Area 1-32 Auto Arm/Disarm Schedules

P68E   **1-32E**   **Area 1-32 Auto Arm/Disarm Schedules** - Value 01-32 (for Schedules 1-32)
(Default = All Off)

Program LCD KP "Area" Name

P69E   **1-32E**   **Program LCD KP "Area" Name Text**

Bulk COPY an Area to a range of Areas

P70E   **Template Area #E Start Area #E End Area #E Bulk COPY an Area to a range of AREAS**

Area 1-32 Zone Activity Timer

P4071E   **1-32E**   **Area 1-32 Zone Activity Timer** - Value 0-255 Minutes
(Default = 0)

Area 1-32 Arming Pre-alert Timer

P4072E   **1-32E**   **Area 1-32 Arming Pre-alert Timer** - Value 0-255 Seconds
(Default = 0)

Area 1-32 Disarm Delay Timer

P4073E   **1-32E**   **Area 1-32 Disarm Delay Timer** - Value 0-9999 Seconds
(Default = 0)

P4074E 1-32E **Area "In Alarm" Disarm Delay Timer** - Value 0-9999 Seconds
(Default = 0)

P4075E 1-32E **This is a display only address that shows all Zones associated with the selected Area**

P4076E 1E **This is a display only address that shows all Areas with Zones assigned to them**

+++++Keypads+++++

P71E **1-32E** **Keypads Assigned To Areas** 01-32 = Areas 1-32
(Default = 1,2)

P72E **1-32E** **Keypad Button Options**
(Default = All 1,2)

(NOTE: Options 5, 6 & 7 create a separate alarm for every area assigned to the keypad at P71E. To clear all alarms the User MUST have the same areas set at P3E)

1 = <CHIME> Button Enabled
2 = <BYPASS> Button Enabled
3 = Code or Tag can ARM only at this keypad
4 = Code or Tag can STAY ARM only at this keypad
5 = <1> + <3> or <CONTROL> + <CHIME> Panic Alarm Enabled
6 = <4> + <6> or <A> + <B> Fire Alarm Enabled
7 = <7> + <9> or <B> + <CHIME> Medical Alarm Enabled
8 = Stay Armed Beep to Keypad

P5070E 1-32E **Keypad Options C**
(Default = All 1,2)

1 = Enable Away Disarm at Keypad
2 = Enable Stay Disarm at Keypad
3 = Keypad FIRE alarm pulses alarm output

P73E **1-32E** **Keypad Beep 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 and Backlighting when Armed
8 = Turn Off LCD & Keypad & Backlighting on Mains Failure

P74E **1-32E** **Keypad "ARM" Button Area** 01-32 = "ARM" Button assigned to Area 1-32
(Default = 1)

P75E **1-32E** **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

P76E **1-32E** **Keypad "STAY" Button Area** 01-32 = "STAY" Button assigned to Area 1-32
(Default = 1)

P77E **1-32E** **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

P78E **1-32E** **Keypad "A" Button Area** 01-32 = "A" Button assigned to Area 1-32
(Default = 1)

P79E **1-32E** **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

P80E **1-32E** **Keypad "B" Button Area** 01-32 = "B" Button assigned to Area 1-32

(Default = 2)

P81E   **1-32E**   **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

Keypad to Output Mask (for Access Control)

P82E   **1-32E**   **Keypad to Output Mask**   01-32 = The Keypad is linked to Output # 1-32
(Default = All Off)

"Control" Button to Output Mask (for Access Control)

P83E   **1-32E**   **Keypad "Control" Button to Output Mask**
(Default = All Off)   01-32 = The Keypad "Control" Button is linked to Output # 1-32

"Control"+"Chime" Panic Alarm to Outputs

P84E   **1-32E**   **Keypad "Control"+"Chime" Panic Alarm to Outputs**
(Default = 1,2)   01-32 = The Keypad "Control"+"Chime" Panic Alarm will turn on Output # 1-32

"A"+"B" Fire Alarm to Outputs

P85E   **1-32E**   **Keypad "A"+"B" Fire Alarm to Outputs**
(Default = 1,2)   01-32 = The Keypad "A"+"B" Fire Alarm will turn on Output # 1-32

"B"+"Chime" Medical Alarm to Outputs

P86E   **1-32E**   **Keypad "B"+"Chime" Medical Alarm to Outputs**
(Default = 1,2)   01-32 = The Keypad "B"+"Chime" Medical Alarm will turn on Output # 1-32

"Duress" Alarm to Outputs

P87E   **1-32E**   **Keypad "Duress" Alarm to Outputs**
(Default = All Off)   01-32 = The Keypad "Duress" Alarm will turn on Output # 1-32

Keypad "Tamper Switch" Alarm to Outputs

P88E   **1-32E**   **Keypad "Tamper Switch" Alarm to Outputs**
(Default = All Off)   01-32 = The Keypad "Tamper Switch" Alarm will turn on Output # 1-32

Keypad "Wrong Code" Alarm to Outputs

P89E   **1-32E**   **Keypad "Wrong Code" Alarm to Outputs**
(Default = All Off)   01-32 = The Keypad "Wrong Code" Alarm will turn on Output # 1-32

Manually Operated Panic Alarm Beeps to Keypads

P90E   **1-32E**   **Panic Alarm Beeps to Keypads**
(Default = All On)   01-32 = A Panic Alarm at the selected keypad will Beep KP # 1-32

Manually Operated Fire Alarm Beeps to Keypads

P91E   **1-32E**   **Fire Alarm Beeps to Keypads**
(Default = All On)   01-32 = A Fire Alarm at the selected keypad will Beep KP # 1-32

Manually Operated Medical Alarm Beeps to Keypads

P92E   **1-32E**   **Medical Alarm Beeps to Keypads**
(Default = All On)   01-32 = A Medical Alarm at the selected keypad will Beep KP # 1-32

Wrong Code or Keypad Tamper Switch Alarm Beeps to Keypads

P93E   **1-32E**   **Wrong Code or Keypad Tamper Switch Alarm Beeps to Keypads**
(Default = All On)   01-32 = Wrong Code or KP Tamper at Keypad 1-32 will Beep KP # 1-32

Chime Alarm Beep Time at a Keypad

P94E   **1-32E**   **The Time the Chime Alarm will sound at Each Keypad** - Value =0-255 1/10th sec
(Default = 20 which is 2 Seconds)

LCD Keypad Back-light settings

P95E   **1-32E**   **LCD Keypad Back-light Setting**   0-100 = LCD B/L value 0-100%

Full LCD Keypad Display Options

P96E   **1-32E**   **Full LCD Keypad Display Options**
(Default = All Off)

- 1 = 2 x 20 Display Mode (On=AAP Logo Display)
- 2 = Show 4G Signal Strength on EC-LCD display
- 3 = Show LCD System name (ON=Show KP Name, 1 =OFF)
- 4 = Display Armed Areas as numbers
- 5 = Allow Control Button to Override Schedules
- 6 = Allow CONTROL of Outputs when Armed
- 7 = Double badge to ARM keypad
- 8 = Control button operates assigned outputs directly

Bulk COPY a Keypad to a range of Keypads

P97E   **Template KP #E Start KP #E End KP #E**   **Bulk COPY a Keypad to a range of KEYPADS**

Proximity Reader LED to Output Mapping

P98E   **1-32E**   **Proximity Reader LED to Output Mapping**
(Default = None)   01-32 = Proximity Reader 1-32 LED will follow the state of Output # 1-32

P99E **1-32E** **Assign Output 1-32 to INFINITY Output** Assign INFINITY OUTPUT to ECi Output

P100E **1-32E** **Program LCD KP "Keypad" Name Text** Program LCD KP "Keypad" Name

<center>+++++Zones+++++</center>

Bulk COPY a Zone to a range of Zones

P118E **Template Zone #E Start Zone #E End Zone #E Bulk COPY a Zone to a range of ZONES**

Global EOL Zone Options

P119E 1E **Global EOL Zone Options** 0 = If set to 0 allows P125E to set individual values from 1-13
(Default = 3)
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 (Single Zone with tamper, Series combination)
13 = 3k3 / 6k8 (Single Zone with tamper, Series combination)
14 = 2k2 / 4k7 / 8k2 (Zone doubling with tamper, Series combination)
15 = 4k7 / 8k2 (Zone doubling no tamper, Series combination)
16 = 4k7 / 8k2 (Zone doubling no tamper, Parallel combination)
17 = 5k6 / 5k6 (Single Input with tamper, Series combination)
18 = 2k2 / 6k8 (Single Input with tamper, Series combination)
19 = 10k / 10k (Single Input with tamper, Series combination)

Zone Key-switch Operational Options

P120E **1-248E** **Zone Key-switch Operational Options** 1 = K/S can Arm Area
(Default = All Off) 2 = K/S can arm Stay Mode
3 = K/S can Disarm Area
(NOTE: K/S operation linked to Users 1-64 settings 4 = K/S can disarm Stay Mode
P1025E - P1029E, see full manual for details) 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)

Programming Zones to Areas

P121E **1-248E** **Assigning Zones to Areas 1-32** 01-32 = Assigned to Area 1-32
(Default = 1)

Programming Zone Options A

P122E **1-248E** **Programming Zone Options A** 1 = Zone is Active
(Default Zone 1-4 = 1,6,7,8) 2 = Zone is N/O (Off = N/C)
(Default Zone 5-8 = 1,7,8) 3 = Not an Exit Delay Zone
(Default Zone 9-16 = 7,8) 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 **1-248E** **Programming Zone Options B** 1 = Zone is a Handover Zone
(Default = All Off) 2 = Zone is a Two Trigger Zone
3 = Zone is a 24 Hour Zone
4 = Auto-reset Zone
5 = Zone is a 24 Hour Fire Zone
6 = Zone is shared (Off = not shared)
7 = Zone is a Chime Zone
8 = Zone is a Permanent Chime Zone

Programming Zone Options C

P124E **1-248E** **Programming Zone Options C** 1 = Can Arm if Zone is not Ready
(Default = 2) 2 = Will Send Multiple Reports via Dialler
3 = Sensor-Watch Zone
4 = Zone is on Soak Test
5 = Report using the highest assigned Area
6 = Zone will Not Report 24 hour Alarms via Dialler
7 = Pulse Output on Kiss-off Following an alarm
8 = Exit Terminator

Programming Zone Options D

P6133E 1-248E **Programming Zone Options D** 1 = Zone is Excluded from Activity monitoring
(Default = All Off) 2 = Zone will hold off Arming until Sealed
3 = "Security Interlock" zone

Programming Zone EOL (End-of-line) Options

P125E **1-248E** **Programming Zone EOL Options** 0 = Short Circuit
(Default = 3) 1 = 1k

(NOTE: P119E MUST be set to 0 for P125E to work)

```
2 = 1k5
3 = 2k2
4 = 3k3
5 = 3k9
6 = 4k7
7 = 5k6
8 = 6k8
9 = 10k
10 = 12k
11 = 22k
12 = 2k2 / 4k7 (Single Input with tamper)
13 = 3k3 / 6k8 (Single Input with tamper)
17 = 5k6 / 5k6 (Single Input with tamper)
18 = 2k2 / 6k8 (Single Input with tamper)
19 = 10k / 10k (Single Input with tamper)
```

Programming Zone Response

P126E 1-248E   Programming Zone Response
(Default = 9)

1 to 8 Vibration mode
(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 1-248E   Programming the Radio Zone Type from the List - Value = 0-89
(Default = 4)
0 = Generic
3 = Infinity (supervised signal active)
4 = Infinity (non-supervised) - INCLUDES REMOTE/PANIC

Armed Zone Alarms to Outputs

P128E 1-248E   Armed Zone Alarms to Output
(Default = 1,2)
01-32 = A Zone Alarm will Turn On Output # 1-32

Armed Stay Mode Zone Alarms to Outputs

P129E 1-248E   Armed Stay Mode Zone Alarms to Output
(Default = 2)
01-32 = A Stay Mode Zone Alarm will Turn On Output # 1-32

24 Hour Zone Alarms to Outputs

P130E 1-248E   24 Hour Zone Alarms to Output
(Default = All Off)
01-32 = A 24 Hour Zone Alarm will Turn On Output # 1-32

Chime Zone Alarms to Outputs

P131E 1-248E   Chime Zone Alarms to Output
(Default = All Off)
01-32 = A Chime Zone Alarm will Turn On Output # 1-32

Zone Tamper Alarms to Outputs

P132E 1-248E   Zone Tamper Alarms to Output
(Default = 1,2)
01-32 = A Zone Tamper Alarm will Turn On Output # 1-32

Programming Zone Options D

P6133E 1-248E   Programming Zone Options D
(Default = All Off)
1 = Zone is Excluded from Activity monitoring
2 = Zone will hold off Arming until Sealed
3 = "Security Interlock" zone

Armed Zone Alarm Beeps to Keypads

P134E 1-248E   Armed Zone Alarm Beeps to Keypads
(Default = All On)
01-32 = An Armed Zone Alarm will Beep Keypad #1-32

Stay Mode Zone Alarm Beeps to Keypads

P135E 1-248E   Stay Mode Zone Alarm Beeps to Keypads
(Default = All On)
01-32 = A Stay Mode Zone Alarm will Beep Keypad #1-32

24 Hour Zone Alarm Beeps to Keypads

P136E 1-248E   24 Hour Zone Alarm Beeps to Keypads
(Default = All On)
01-32 = A 24 Hour Zone Alarm will Beep Keypad #1-32

Chime Zone Alarm Beeps to Keypads

P137E 1-248E   Chime Zone Alarm Beeps to Keypads
(Default = All Off)
01-32 = A Chime Zone Alarm will Beep Keypad #1-32

Zone Tamper Alarm Beeps to Keypads

P139E 1-248E   Zone Tamper Alarm Beeps to Keypads
(Default = All On)
01-32 = A Zone Tamper Alarm will Beep Keypad #1-32

Radio Supervise Alarm Beeps to Keypads

P140E 1-248E   Radio Supervise Alarm Beeps to Keypads
(Default = All Off)
01-32 = A Radio Supervise Alarm will Beep Keypad #1-32

Zone Sensor-watch Alarm Beeps to Keypads

P141E 1-248E   Zone Sensor-watch Alarm Beeps to Keypads
(Default = All Off)
01-32 = A Zone Sensor-watch Alarm will Beep Keypad #1-32

Armed Zone Entry Delay Beeps to Keypads

P142E 1-248E   Armed Zone Entry Delay Beeps to Keypads

(Default = 1)   01-32 = Armed Zone Entry Delay will Beep Keypad #1-32

Stay Mode Entry Delay Beeps to Keypads

P143E   1-248E   Stay Mode Entry Delay Beeps to Keypads
(Default = 1)   01-32 = Stay Mode Entry Delay will Beep Keypad #1-32

Armed Zone Entry Delay Times

P144E   1-248E   Armed Zone Entry Delay Times - Value 0-9999 seconds
(Default Zone # 1 = 20 Seconds, Zones # 2-64 = 0)

Stay Mode Entry Delay Times

P145E   1-248E   Stay Mode Entry Delay Times - Value 0-9999 seconds
(Default Zones # 1-4 = 20 Seconds, Zones # 5-64 = 0)

Zone Re-trigger Count

P146E   1-248E   Zone Re-Trigger Count - Value 0-15 (Maximum number of times a zone can re-trigger
(Default = 0)   during armed state. 0=Unlimited Triggers)

Zone Reports using this Area

P147E   1-248E   Zone Reports using this Area - Value 0-32

Zone Alarm Contact ID Reporting Codes

P157E   1-248E   Zone Alarm Contact ID Reporting Code - (Default = 130)

Zone Near Alarm Contact ID Reporting Codes

P158E   1-248E   Zone Near Alarm Contact ID Reporting Code - (Default = 138)

Zone Intrusion Verified Alarm Contact ID Reporting Codes

P159E   1-248E   Zone Intrusion Verified Alarm Contact ID Reporting Code - (Default = 139)

Zone Alarm Voice Message Number

P160E   1-248E   Zone Alarm Voice Message Number - Value-0-99 (Default = 1)

Away Zone Entry Delay to Outputs

P161E   1-248E   Away Zone Entry Delay to Outputs
(Default = All Off)   01-32 = Armed Zone Entry Delay to output #1-32

Stay Mode Entry Delay to Outputs

P162E   1-248E   Stay Mode Entry Delay Beeps to Outputs
(Default = All Off)   01-32 = Stay Mode Entry Delay to output #1-32

Sensor-Watch Timer

P163E   1-248E   Sensor-Watch Timer - 0-9999 Minutes (Default = 7200 minutes [120 Hours])

Enrolling Radio Zone Codes

P164E   1-248E   Learn Radio Zone Codes

Delete a Specific Radio Zone Code

P165E   1-248E   Delete a Specific Radio Zone Code

Find Radio Zone memory Location

P166E   This will find the zone # of any Radio Zone code stored in the panel
After P166E press enter to start the find process

Zone Near Alarm to Outputs

P167E   1-248E   Zone Near Alarm to Outputs
(Default = All Off)   01-32 = Zone Near Alarm to output #1-32

Zone Confirmed Alarm to Outputs

P168E   1-248E   Zone Confirmed Alarm to Outputs
(Default = All Off)   01-32 = Zone Confirmed Alarm to output #1-32

Program LCD KP "Zone" Name

P169E   1-248E   Program LCD KP "Zone" Name Text

Access Control Door Monitor Linked to Output

P6174E 1-248E   Access Control Door Monitor Linked to Output
(Default = All 0)   01-32 = Output #1-32 (0 = Disabled)

Access Control Options

P6175E 1-248E   Access Control Options   0 = Disabled, no access monitor options
(Default = 0)   1 = Access Door Monitoring
                                                          2 = Access Door REX button
                                                          3 = Egress button - hold door open
                                                          4 = Global Fire Egress - hold all Access doors open
                                                          5 = Global Egress - hold all Egress doors open

Access Control Options B

P6176E 1-248E   Access Control Options B   1 = Report access violation as output # not zone #
(Default = None)   2 = Hide this zone on the web status page
                                                          3 = Zone restore auto-resets Egress outputs

Access Door Open Too Long Beeps to Keypads

P6177E 1-248E   Access Door Open Too Long Beeps to Keypads
(Default = All Off)   01-32 = An Access Door left Open too long will Beep Keypad #1-32

P6178E 1-248E **Access Door Forced Open Beeps to Keypads**
(Default = All Off)   01-32 = An Access Door forced Open twill Beep Keypad #1-32

P6179E 1-248E **Access Door Open Too Long to Outputs**
(Default = All Off)   01-32 = An Access Door left Open too long will trigger Output #1-32

P6180E 1-248E **Access Door Forced Open to Outputs**
(Default = All Off)   01-32 = An Access Door forced Open twill trigger Output #1-32

+++++Schedules+++++

P170E 1-32E **Holidays 1-32 Days -** Value = DDMMYY

P171E 1-32E **Schedule 1-32 Days**
(Default = All Off)
1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday
8 = Invert

P172E 1-32E **Schedule 1-32 Start Time -** Value 0000-2359 (Default = 0000)
P173E 1-32E **Schedule 1-32 End Time -** Value 0000-2359 (Default = 0000)

P174E 1-32E **Schedule 1-32 Options**
(Default = All Off)
1 = Ignore Holidays
2 = Dormant Schedule (see P1032E)

+++++Communicator+++++

P175E 1E **Communicator options**
(Default = None)
1 = Communicator 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 = Spare
8 = Spare

P175E 2E **Communicator options 2**
(Default = 1)
1 = Step number on each call
2 = Send IP reporting path in Poll message (Off= don't send the path data) **##**
3 = Spare
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 = Ring Timeout (Off = 3 secs, On = 6.5 secs).
8 = Answer After 1 ring for Listen-in Mode

If Option 2 above is ON the zone location in the poll message will include 001 for Ethernet, 003 for 4G SIM1 or 004 for 4G SIM2 path.

P175E 3E **Auto-Answer Ring Count -** Value 0-99 (Default = 25)

P175E 4E **Test Call Start Time -** Value 0000-2359 (Default = 2300)

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

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

P175E 7E   **Communicator Fail Line Switch Output** - Value = Output number 1 –32

P175E 8E   **Dialling Pre-fix Number -** Value 1-16 Digits (Default = 0)

P175E 9E   **"Panic" Alarm CID Reporting Code** - (Default=120)

P175E 10E   **"Fire" Alarm CID Reporting Code** - (Default=110)

P175E 11E   **"Medical" Alarm CID Reporting Code** - (Default=100)

P175E 12E   **Output Command Control code** - Value 1-4 digit code (1-9999) (Default = 0)

P175E 13E   **Reserved for future use.**

P175E 14E   **Voice/Domestic Acknowledge Code** - Value 1-4 digit code (1-9999) (Default = 0)

P175E 15E   **Force Test Call Code** - Value 1-4 digit code (1-9999) (Default = 0, Feature disabled)

P176E 1E   **Keypad or Radio "Panic" Alarm Voice Message Number -** Value 0-99 (Default = 0)
P176E 2E   **"Fire" Alarm Voice Message Number -** Value 0-99 (Default = 0)
P176E 3E   **"Medical" Alarm Voice Message Number -** Value 0-99 (Default = 0)
P176E 4E   **"Mains Failure" Voice Message Number -** Value 0-99 (Default = 0)
P176E 5E   **"Mains Restore" Voice Message Number -** Value 0-99 (Default = 0)
P176E 6E   **"Battery Low" Voice Message Number -** Value 0-99 (Default = 0)
P176E 7E   **"Battery Restored" Voice Message Number -** Value 0-99 (Default = 0)
P176E 8E   **"Tamper" (Zone/Radio/System) Voice Message Number -** Value 0-99 (Default = 0)
P176E 9E   **"Duress Alarm" Voice Message Number -** Value 0-99 (Default = 0)
P176E 10E   **"Latchkey Disarm" Voice Message Number -** Value 0-99 (Default = 0)
P176E 11E   **"Manual Test Initiated" Voice Message Number -** Value 0-99 (Default = 0)

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

P181E 1-8E   **Programming Telephone Numbers -** Value 1-16 Digits (Default = 0)

P182E 1-8E   **Communicator Reporting Formats**

(Default = 1)
1 = Contact ID
2 = Domestic Dial
3 = Pager
4 = Speech Dialler
5 = CSV IP Extended (sends 4 digit zone/user field)
6 = Patriot IP
7 = XML IP
8 = CSV IP Normal
9 = DC-09 IP Format
10 = SIA Format
11 = SIA Slow Format

P183E 1-8E   **Communicator 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 Audio Listen-in
6 = Spare
7 = Use the Dialling Pre-fix
8 = Spare

P184E 1-8E   **Maximum Dial Attempts per Telephone Number -** Value 0-99 (Default = 20)

P186E 1-8E   **Communicator Opts 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

Communicator Reporting Options B

P187E 1-8E   **Communicator Opts B**   1 = Report Duress Alarm
(Default = All On)   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

Communicator Reporting Options C

P188E 1-8E   **Communicator Opts C**   1 = Report Arm/Disarm
(Default = 1,6,8)   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

Communicator Reporting Options D

P189E 1-8E   **Communicator Opts D**   1 = Report Latchkey Disarm
(Default = 3,4,5   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 = Spare

+++++ SIA Alarm Report Codes +++++

(SIA event codes are entered by programming a value from the chart on Page 23. 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 1-248E   **Zone Alarm SIA Reporting Code -** (Default value = 1, Alarm Event Code BA)

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

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

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

+++++ Panel Diagnostic & Default Options +++++

Display Panel Software Version Number
P200E 1E   **Display the Panel Software Version Number**

Display Keypad Address Number
P200E 2E   **Display Keypad Address Number**

Display Areas Assigned to this Keypad
P200E 3E   **Display Areas Assigned to this Keypad**

Display Active Schedules
P200E 4E   **Display Active Schedules**

Display Battery Voltage
P200E 5E   **Display Battery Voltage**

Walk Test Mode
P200E 6E   **Walk Test Mode**

Update "Firmware" to LCD KP, Zone and Output Expanders
P200E 7E   **Update "Firmware" to LCD KP, Zone and Output Expanders**

Update "Text Files" to LCD Keypads
P200E 8E   **Update "text Files" to LCD Keypads**

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

Restore All Factory Defaults
P200E 10E   **Restore All Factory Defaults (excludes LCD text)**

Clear Alarm Memory Buffer
P200E 11E   **Clear Alarm Memory Buffer**

Default ALL LCD text
P200E 12E   **Default ALL LCD text.**

P200E 14E   Read RSSI from Pendants and Wireless Zones
        ## NOTE: Currently not available for the INFINITY Range of Products.##

P200E 15E   Reset Keypad Bus to restart all bus connected devices

P200E 16E   Update EC-KP Firmware for all EC-KP's connected to the Keypad Bus

P200E 17E1234E Reset ALL Site/User details on the AAP Server to allow new ownership
        NOTE: The Panel MUST have an internet connection to work.

P200E 18E   4G Modem Signal Strength

P200E 19E   4G Modem State
        State Table
        0 = MODEM Initialising
        1 =MODEM not detected
        2 = MODEM reset
        3 = MODEM get info
        4 = MODEM power-up
        5 =MODEM get SIM status
        6 = MODEM SIM ready
        7 = MODEM SIM not ready
        8 = MODEM SIM unknown response
        9 = MODEM SIM error
        10 = MODEM registering with network
        11 = MODEM network register error
        12 = MODEM setup cloud certificate key
        13 = MODEM cloud certificate key error
        14 = MODEM cloud configuration
        15 = MODEM cloud configuration error
        16 = MODEM connecting to cloud
        17 = MODEM cloud connection error
        18 = MODEM cloud active and running
        19 = MODEM no cloud active and running in idle state (Ethernet is the primary connection)
        20 = MODEM timeout
        21 = MODEM shutdown (only for testing)
        22 = MODEM network disconnect
        23 = MODEM running in idle state, waiting for Ethernet link verification
        24 = MODEM panel firmware update requested
        25 = MODEM panel firmware update, waiting for file system verification
        26 = MODEM panel firmware update in progress
        27 = MODEM power down
        252 = MODEM communication operating in transparent mode (only for testing)
        253 = MODEM no acknowledge to modem command
        254 = MODEM testing
        255 = MODEM unknown status

+++++IP Alarm Setup+++++

P201E 1E   Control Panel IP Address
        (Can also be viewed by pressing the number "9" for 5 seconds in normal mode)

P201E 2E   IP Gateway Address (Default = 000.000.000.000)

P201E 3E   IP Subnet Mask (Default = 255.255.255.000)

P201E 4E   IP Setup Options (Default = All Off)
                1 = DHCP/Manual Panel IP address (Off = Automatic DHCP)
                2 = Enable Ethernet Test
                3 = Sync Panel to Internet Clock
                4 = Enable Serial over IP Communications
                5 = Disable Cloud Connection (On = No Cloud connection)
                6 = Disable Web Pages (On = Web Pages disabled)
                7 = Spare
                8 = Spare

P201E 5E   **Show Panel MAC Address**
(Can also be viewed by pressing the number "8" for 5 seconds in normal mode)

P201E 6E   **CSV IP Name**

P201E 7E   **CSV IP Password**

P201E 8E   **Alternative (Secondary) Gateway** (Default = 000.000.000.000)

P201E 9E   **DNS 1** (Default: 8.8.8.8)

P201E 10E   **DNS 2** (Default: 8.8.4.4)

P201E 11E   **NTP 1** (Default: 0.nz.pool.ntp.org)

P201E 12E   **NTP 2** (Default: 1.nz.pool.ntp.org)

P201E 13E   **Serial over IP Port** (Default: 9000)

P201E 14E   **Web Port Number** (Default: 80)

P201E 15E   **EC-i 4G APN Setting** (NOTE: address only available on EC-LCD)

P202E 1-8E   **IP Reporting Poll Timer (0-9999 minutes)**

P203E 1-8E   **Monitoring IP Reporting Number/URL (000.000.000.000)**

P204E 1-8E   **IP Reporting Port Number**

P205E 1-8E   **IP Reporting Poll Event Code**

Access Group

Access Group:
[1] 🔄 ◀ ▶   Save 💾

Access Groups (P3101E-P3132E)- Allows users access to different doors at different times of the day

Door Name	Door #	Assigned Schedule
Door 1	External Siren	Schedule 1
Door 2	Sales Speaker Siren	Schedule 2
Door 3	Air Conditioning	Schedule 3
Door 4	Output 4	None
Door 5	Output 5	None
Door 6	Output 6	None
Door 7	Output 7	None
Door 8	Output 8	None
Door 9	Output 9	None
Door 10	Output 10	None
Door 11	Output 11	None
Door 12	Output 12	None
Door 13	Output 13	None
Door 14	Output 14	None
Door 15	Output 15	None
Door 16	Output 16	None
Door 17	Output 17	None
Door 18	Output 18	None
Door 19	Output 19	None
Door 20	Output 20	None
Door 21	Output 21	None
Door 22	Output 22	None
Door 23	Output 23	None
Door 24	Output 24	None
Door 25	Output 25	None
Door 26	Output 26	None
Door 27	Output 27	None
Door 28	Output 28	None
Door 29	Output 29	None
Door 30	Output 30	None
Door 31	Side Door	ENABLE 24/7
Door 32	Front Door Lock	ENABLE 24/7

ECi Version 10.3.41

Page 23

Zone Expander DIP Switch settings

Expanders - Zone Doubling	Expanders - NO Zone Doubling	DIP SW1	DIP SW2	DIP SW3	DIP SW4	DIP SW5	DIP SW6	DIP SW7	DIP SW8
Not used	EXP # 1 (zones 9-16)	*ON*	off	off	off	off			
EXP # 2 (zones 17-32)	EXP # 2 (zones 17-24)	off	*ON*	off	off	off			
Not used	EXP # 3 (zones 25-32)	*ON*	*ON*	off	off	off			
EXP # 4 (zones 33-48)	EXP # 4 (zones 33-40)	off	off	*ON*	off	off			
Not used	EXP # 5 (zones 41-48)	*ON*	off	*ON*	off	off			
EXP # 6 (zones 49-64)	EXP # 6 (zones 49-56)	off	*ON*	*ON*	off	off			
Not used	EXP # 7 (zones 57-64)	*ON*	*ON*	*ON*	off	off			
EXP # 8 (zones 65-80)	EXP # 8 (zones 65-72)	off	off	off	*ON*	off			
Not used	EXP # 9 (zones 73-80)	*ON*	off	off	*ON*	off			
EXP # 10 (zones 81-96)	EXP # 10 (zones 81-88)	off	*ON*	off	*ON*	off			
Not used	EXP # 11 (zones 89-96)	*ON*	*ON*	off	*ON*	off			
EXP # 12 (zones 97-112)	EXP # 12 (zones 97-104)	off	off	*ON*	*ON*	off			
Not used	EXP # 13 (zones 105-112)	*ON*	off	*ON*	*ON*	off			
EXP # 14 (zones 113-128)	EXP # 14 (zones 113-120)	off	*ON*	*ON*	*ON*	off			
Not used	EXP # 15 (zones 121-128)	*ON*	*ON*	*ON*	*ON*	off			
EXP # 16 (zones 129-144)	EXP # 16 (zones 129-136)	off	off	off	off	*ON*			
Not used	EXP # 17 (zones 137-144)	*ON*	off	off	off	*ON*			
EXP # 18 (zones 145-160)	EXP # 18 (zones 145-152)	off	*ON*	off	off	*ON*			
Not used	EXP # 19 (zones 153-160)	*ON*	*ON*	off	off	*ON*			
EXP # 20 (zones 161-176)	EXP # 20 (zones 161-168)	off	off	*ON*	off	*ON*			
Not used	EXP # 21 (zones 169-176)	*ON*	off	*ON*	off	*ON*			
EXP # 22 (zones 177-192)	EXP # 22 (zones 177-184)	off	*ON*	*ON*	off	*ON*			
Not used	EXP # 23 (zones 185-192)	*ON*	*ON*	*ON*	off	*ON*			
EXP # 24 (zones 193-208)	EXP # 24 (zones 193-200)	off	off	off	*ON*	*ON*			
Not used	EXP # 25 (zones 201-208)	*ON*	off	off	*ON*	*ON*			
EXP # 26 (zones 209-224)	EXP # 26 (zones 209-216)	off	*ON*	off	*ON*	*ON*			
Not used	EXP # 27 (zones 217-224)	*ON*	*ON*	off	*ON*	*ON*			
EXP # 28 (zones 225-240)	EXP # 28 (zones 225-232)	off	off	*ON*	*ON*	*ON*			
Not used	EXP # 29 (zones 233-240)	*ON*	off	*ON*	*ON*	*ON*			
EXP # 30 (zones 241-248)	EXP # 30 (zones 241-248)	off	*ON*	*ON*	*ON*	*ON*			
	On Board Tamper Ignored								*ON*
	On Board Tamper Active								off

Output Expander DIP Switch settings

Output Expander Number	DIP SW1	DIP SW2	DIP SW3	DIP SW4	DIP SW5	DIP SW6	DIP SW7	DIP SW8
O/P EXP # 1	off	off	off	Follows Outputs 1-4				
O/P EXP # 2	_ON_	off	off	Follows Outputs 5-8				
O/P EXP # 3	off	_ON_	off	Follows Outputs 9-12				
O/P EXP # 4	_ON_	_ON_	off	Follows Outputs 13-16				
O/P EXP # 5	off	off	_ON_	Follows Outputs 17-20				
O/P EXP # 6	_ON_	off	_ON_	Follows Outputs 21-24				
O/P EXP # 7	off	_ON_	_ON_	Follows Outputs 25-28				
O/P EXP # 8	_ON_	_ON_	_ON_	Follows Outputs 29-32				
On Board Tamper Ignored								_ON_
On Board Tamper Active								off

DIP switch number 8 disables the on-board tamper input if not required.
DIP Switches 4, 5, 6, & 7 are currently unused.

There is an LED associated with every output. They are labelled OUTPUT 1-4.
LED 1 relates to output 1 through to LED 4 relates to output 4.

At power up the LED's will cycle in numerical order back and forth until communications is established with the main control panel. If there is an address clash (eg two output expanders set to the same address number) they will continue to cycle until the clash is resolved by changing the switches on one of the expanders.

Under normal conditions the LED's will be off when the output is off. When an LED is on that indicates the associated relay is on.

The output expander can be powered from the main control panel (as shown on the connection diagram on the previous page) or there is an optional plug in 1A power supply module that can be fitted to the output expander. When the optional power supply module is fitted the 13.8V (POS) from the panel must not be connected, only the 0V from the main control panel should be connected to the output expander 0V.

EC-A2 Interface DIP Switch settings

EC-A2 Keypad Address	DIP SW1	DIP SW2	DIP SW3	DIP SW4	DIP SW5	Relay Mapped to	Input Mapped to
Keypad Address # 1	off	off	off	off	off	Output 1	Input 1
Keypad Address # 2	*ON*	off	off	off	off	Output 2	Input 2
Keypad Address # 3	off	*ON*	off	off	off	Output 3	Input 3
Keypad Address # 4	*ON*	*ON*	off	off	off	Output 4	Input 4
Keypad Address # 5	off	off	*ON*	off	off	Output 5	Input 5
Keypad Address # 6	*ON*	off	*ON*	off	off	Output 6	Input 6
Keypad Address # 7	off	*ON*	*ON*	off	off	Output 7	Input 7
Keypad Address # 8	*ON*	*ON*	*ON*	off	off	Output 8	Input 8
Keypad Address # 9	off	off	off	*ON*	off	Output 9	Input 9
Keypad Address # 10	*ON*	off	off	*ON*	off	Output 10	Input 10
Keypad Address # 11	off	*ON*	off	*ON*	off	Output 11	Input 11
Keypad Address # 12	*ON*	*ON*	off	*ON*	off	Output 12	Input 12
Keypad Address # 13	off	off	*ON*	*ON*	off	Output 13	Input 13
Keypad Address # 14	*ON*	off	*ON*	*ON*	off	Output 14	Input 14
Keypad Address # 15	off	*ON*	*ON*	*ON*	off	Output 15	Input 15
Keypad Address # 16	*ON*	*ON*	*ON*	*ON*	off	Output 16	Input 16
Keypad Address # 17	off	off	off	off	*ON*	Output 17	Input 17
Keypad Address # 18	*ON*	off	off	off	*ON*	Output 18	Input 18
Keypad Address # 19	off	*ON*	off	off	*ON*	Output 19	Input 19
Keypad Address # 20	*ON*	*ON*	off	off	*ON*	Output 20	Input 20
Keypad Address # 21	off	off	*ON*	off	*ON*	Output 21	Input 21
Keypad Address # 22	*ON*	off	*ON*	off	*ON*	Output 22	Input 22
Keypad Address # 23	off	*ON*	*ON*	off	*ON*	Output 23	Input 23
Keypad Address # 24	*ON*	*ON*	*ON*	off	*ON*	Output 24	Input 24
Keypad Address # 25	off	off	off	*ON*	*ON*	Output 25	Input 25
Keypad Address # 26	*ON*	off	off	*ON*	*ON*	Output 26	Input 26
Keypad Address # 27	off	*ON*	off	*ON*	*ON*	Output 27	Input 27
Keypad Address # 28	*ON*	*ON*	off	*ON*	*ON*	Output 28	Input 28
Keypad Address # 29	off	off	*ON*	*ON*	*ON*	Output 29	Input 29
Keypad Address # 30	*ON*	off	*ON*	*ON*	*ON*	Output 30	Input 30
Keypad Address # 31	off	*ON*	*ON*	*ON*	*ON*	Output 31	Input 31
Keypad Address # 32	*ON*	*ON*	*ON*	*ON*	*ON*	Output 32	Input 32

OPTION	DIP SW6	DIP SW7	DIP SW8	
1 Door Controller	off	-		If set to 1 door Wiegand Input 2 unused
2 Door Controller	*ON*	-		If set to 2 door Wiegand Input 2 is KP address +1
Input is a REX	-	off		If set to 1 door only Input 1 is active, if set to 2 door both inputs are REX
Input is a Zone	-	*ON*		If set to 1 door only Input 1 is active, if set to 2 door both inputs are zones
Enable EC-A2 Tamper	-	-	off	EC-A2 on-board tamper is active and will trigger an alarm
Disable EC-A2 Tamper	-	-	*ON*	If DIP SW8 is ON the EC-A2 tamper is disabled

Contact ID Reporting Code Summary

In addition to the programmable Contact ID Event Code assignments defined at P157E, P158E, P159E, P175E (9E-11E) 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. For "Users" Above 998 the panel will report all as user 998 (eg users 998-2000 will all be reported as 998).

Event Type	Event Code	Extension	Comment
System Tamper	137	000	Panel & Sat Tamper etc
Zone Alarm (wired or wireless)	130	001 to 248	Alarm on Zone 1-248
Zone Tamper - Low (short circuit)	383	001 to 248	Zone Input 1-248 short circuit
Zone Tamper - High (open circuit)	383	009 to 248	Zone Input 1-248 open circuit
Zone Tamper - Radio Zone	383	001 to 248	Radio Zone 1-248
Zone Near Alarm	138	001 to 248	Zone Input 1-248
Zone Confirmed Alarm	139	001 to 248	Zone Input 1-248
Radio PIR / Reed Switch Battery Low	384	001 to 248	Radio Zone 1-248
Radio PIR Supervised Alarm	381	001 to 248	Supervised Radio Zone 1-248
Sensor-watch Alarm	391	001 to 248	Zone 1-248
Zone Excludes	570	001 to 248	Exclude Zone 1-248
Keypad Panic (CONTROL+CHIME)	120	001 to 032	Panic at keypad #1-32
Radio-Key Panic	120	101 to 998	Panic by Radio User # 101-2000
Keypad Fire (A+B)	110	001 to 032	Fire Alarm at keypad #1-32
Keypad Medical (B+CHIME)	100	001 to 032	Medical Alarm at keypad #1-32
EC-i Controller Tamper Switch Alarm	137	000	EC-i Tamper Switch Activated
Keypad Tamper Switch Alarm	137	001 to 032	Keypad 1-32 Tamper Switch Activated
Wrong Code Alarm	461	001 to 032	4 Incorrect code entries at KP # 1-32
Arm/Disarm by "ARM key (Quick Arm)	408	000	Arm/Disarm by single button
Arm/Disarm by user code	401	001 to 998	Arm/Disarm by User #1-2000
Arm/Disarm by Radio-key	400	101 to 998	Arm/Disarm by Radio User #101-2000
Arm/Disarm by Key-switch	409	001 to 064	Zone Key-switch # 1-64 Arm/Disarm
Arm/Disarm by DTMF or Up/Download	407	000	Remote Arm/Disarm
Arm by "Security Interlock" Zone	407	001 to 064	Arm by "Security Interlock" zone # 1-64
Arm/Disarm by Time-Zone	403	000	Time-Zone Arm/Disarm
Latchkey Disarm	642	001 to 998	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 998	Stay Mode Arm by User # 1-2000
Stay Mode Arm/Disarm by Key-switch	442	000 to 064	Stay Mode Arm by Zone Key-switch # 1-64
AC Fail	301	000	Mains (AC) fail
Zone Expander AC Fail	301	001-007	AC Fail on Zone exp. 1-7
Output Expander AC Fail	301	101-108	AC Fail on Output exp. 1-8
Wiegand Interface AC Fail	301	201-232	AC Fail on Wiegand IF 1-32
System Battery Low	302	000	Control Panel Battery low
Zone Expander Battery Low	302	001-007	Battery Low on Zone exp. 1-7
Output Expander Battery Low	302	101-108	Battery Low on Output exp. 1-8
Wiegand Interface Battery Low	302	201-232	Battery Low on Wiegand IF 1-32
Checksum Fail (Corrupt EEPROM Data)	303	001-008	Checksum block error
Fuse Fail - Main panel	312	000	Fuse 1 or 2 Fail on ESX-1
Fuse Fail - Zone expander	312	001-007	Fuse Fail on Zone Exp PSU
Fuse Fail - Output expander	312	101-108	Fuse Fail on Output EXP PSU
Fuse Fail - Wiegand IF-2	312	201-232	Fuse Fail on Wiegand IF-2 PSU
Radio-key Battery Low	309	101 to 998	Radio-key User #101-2000 low batt.
Radio-PIR / Reed Switch Battery Low	384	001 to 064	Radio Zone 1-64
Radio Output Device Battery Low	338	001 to 032	Radio Output 1-32
Automatic TEST Calls	602	000	24 hour test
Manual TEST Calls	601	000	User generated Test Call
Phone Line Failure	351	001	Reported when Phone line is restored
IP Communication Failure	351	002	Reported when LAN connection restored
Cloud Server Communication Failure	351	005	Reported when Cloud Comms restored
Permaconn RS232 Failure	351	006	Reported when RS232 Comms restored
4G Communication Failure	351	007	Reported when 4G Comms restored
Duress Alarm	121	001 to 032	Duress at Keypad #1-32
Program Mode Entry	627	000	Program Mode entered
Program Mode Exit	628	000	Program Mode exited
Zone Expander Tamper Alarm	145	001-007	Zone expander board Tamper Alarm
Output Expander Tamper Alarm	341	001-008	Output expander board Tamper Alarm

Wiegand IF-2 Tamper Alarm	137	001-032	Wiegand IF-2 board Tamper Alarm
Zone Expander Module Fail	333	001-007	Zone exp. 1-7 Fail
Output Expander Module Fail	333	101-108	Output exp. 1-8 Fail
Wiegand Interface Module Fail	333	201-232	Wiegand IF 1-32 fail
FW2-CAN bus RF Module Fail	333	100	The FW2 CAN bus RF Module is missing
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 032	Keypad device 1-32 offline
System Reset	305	000	Panel has rebooted
RF Receiver jam detected	344	000	RF Jamming Detected
Dialler Failure	354	000	Failure to get kiss off
IP Failure	356	000	Failure to send IP Poll
Access Door Forced Alarm	423	001 to 032	The access door has been forced open
Access Door left open too long Alarm	426	001 to 032	The access door has been left open.
Access Door opened by Fire alarm input	125	001 to 064	Free Egress granted during a Fire Alarm

SIA Reporting Code Summary

Most of the SIA Event Codes are fixed within the panel but some locations such as zones at P196E (1-248E) and Panic/Fire/Medical at P197E (1-3E) can have a user defined report code from the table below. To follow are the default SIA reporting codes. Unlike CID, users 1-2000 will be reported as 1-2000 in SIA format.

Event Type	SIA Alarm Code	SIA Restore Code
Armed, 24 hour & Near Zone Alarms (programmable P196E)	BA	BH
Zone Verified Alarm Activated	BV	BH
Zone Bypassed	BB	BU
Zone Tamper Activated	BT	BJ
Sensor-Watch Fail	NA	NS
Radio Zone Supervise Fail	BZ	BR
Pendant or Radio Zone Low Battery	XT	XR
Keypad or Pendant Panic Alarm (programmable P197E1E)	PA	PH
Keypad Fire Alarm (programmable P197E2E)	FA	FH
Medical Alarm (programmable P197E3E)	MA	MH
Duress Alarm	HA	HH
Panel, Keypad or Wiegand IF-2 Tamper Switch Activated	TA	TR
Zone Expander Tamper Activated	ES	EJ
Output Expander Tamper Activated	TT	TJ
Zone, Output or Wiegand IF-2 fail	EM	EN
Battery Low (see CID for extension numbers)	YT	YR
AC Fail (see CID for extension numbers)	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
IP Poll Failure	NT	NR
Access Door Forced Alarm	DF	DR
Access Door Left Open too Long	DN	DH
Egress Door Opened by Pushbutton or Fire alarm	DG	DY

When you program one of the numbers in column 2 below 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).

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	-	-

ECi Software update schedule