CROW
Electronic Engineering Ltd

RUNNER 8/64

8/64 Zones Control Panel

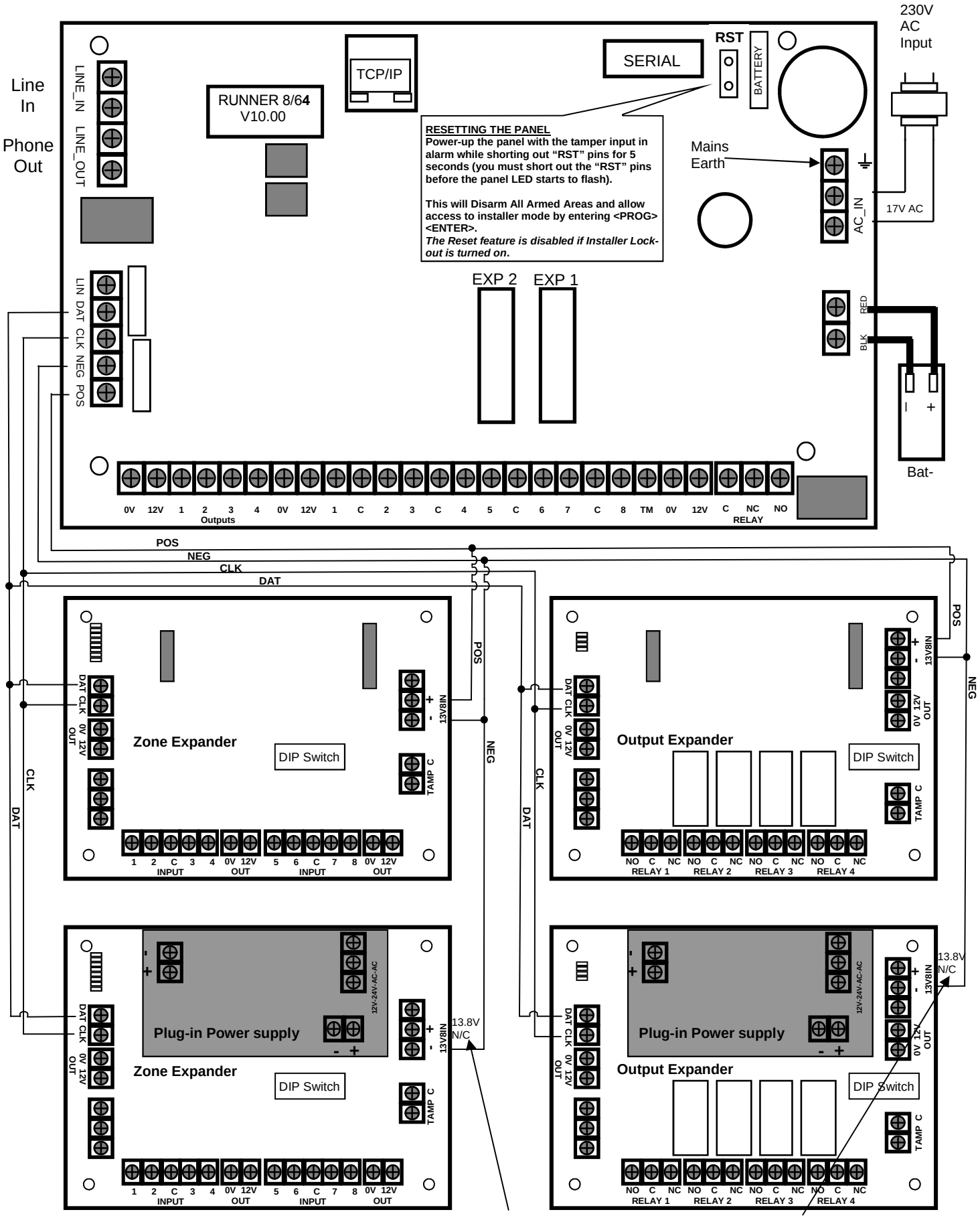
Installation & Programming Guide

This RUNNER 8/64 alarm control panel has been designed to provide the most requested features for both the installer & the end-user. These features include ease of installation, ease of programming and user friendly operation all in a package which is reliable, functional and attractive. Utilising many years of experience in the security industry and implementing valuable feedback, we are proud to provide you with a new generation of alarm controller. The RUNNER 8/64 is a de-signed and built product which brings you the quality and features which you deserve at an affordable price. In addition to the the advanced design, only the highest quality components have been used in the production of this Alert panel to ensure the highest degree of reliability.
This manual will guide you through the installation and programming of your RUNNER 8/64 alarm panel. For additional information regarding the operating instructions and options, please refer to the "RUNNER User's Guide".

Revision A D.Z Feb. 2018

CONTENTS

CONNECTION DIAGRAM



NOTE: If the Plug-in Power supply is fitted <u>DO NOT CONNECT</u> (N/C) the Panel POS to Expander 13.8V IN
If the Wiegand Interface board is used you must follow the same wiring as above.

Zone Expander DIP Switch settings

		DIP Switch #							
Expanders - Zone Doubling	**Expanders - NO Zone Doubling**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Not used	**EXP # 1 (zones 9-16)**	**ON**	off	off					
EXP # 2 (zones 17-32)	**EXP # 2 (zones 17-24)**	off	**ON**	off					
Not used	**EXP # 3 (zones 25-32)**	**ON**	**ON**	off					
EXP # 4 (zones 33-48)	**EXP # 4 (zones 33-40)**	off	off	**ON**					
Not used	**EXP # 5 (zones 41-48)**	**ON**	off	**ON**					
EXP # 6 (zones 49-64)	**EXP # 6 (zones 49-56)**	off	**ON**	**ON**					
Not used	**EXP # 7 (zones 57-64)**	**ON**	**ON**	**ON**					
	On Board Tamper Ignored								**ON**
	On Board Tamper Active								off

If the zones are set to a type 0-13 then every zone is set to a single zone per input and each zone can be set differently.
If the Global zone doubling option is turned on at P119E all zones on the panel are set to either a type 14 or 15 (depending on the selected option). When zone doubling is selected every second zone expander is used as per the above chart as there will be 16 zones per expander not 8.

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 input. They are labelled IP1—IP8.
LED IP1 relates to zone input 1 through to LED IP8 relates to zone input 8.

At power up the LED's will cycle back and forth until communications is established with the main control panel.

Under normal conditions the LED's will be off when the zone is sealed and on when the zone is unsealed so the state of the zone can be displayed at the expander.

If the zone is monitored for a tamper condition (zone types 12, 13 or 14) the associated LED will flash to indicate a tamper condition.

The zone 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 zone 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 zone expander 0V.

NOTE: If there is an address clash (eg two zone expanders set to the same address number) the 8 LED's will display the following pattern, LED's 1 & 8 On, changing to LED's 2 & 7 On, changing to LED's 3 & 6 On, changing to LED's 4 & 5 On, then all 8 LED's will flash together twice then the pattern will repeat until the address clash is removed.

Output Expander DIP Switch settings

	DIP Switch #							
Output Expander Number	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
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.

Wiegand Interface DIP Switch settings

	DIP Switch #				
Wiegand Interface Address	**1**	**2**	**3**	**4**	**5**
Wiegand I/F # 1	off	off	off	off	off
Wiegand I/F # 2	**ON**	off	off	off	off
Wiegand I/F # 3	off	**ON**	off	off	off
Wiegand I/F # 4	**ON**	**ON**	off	off	off
Wiegand I/F # 5	off	off	**ON**	off	off
Wiegand I/F # 6	**ON**	off	**ON**	off	off
Wiegand I/F # 7	off	**ON**	**ON**	off	off
Wiegand I/F # 8	**ON**	**ON**	**ON**	off	off
Wiegand I/F # 9	off	off	off	**ON**	off
Wiegand I/F # 10	**ON**	off	off	**ON**	off
Wiegand I/F # 11	off	**ON**	off	**ON**	off
Wiegand I/F # 12	**ON**	**ON**	off	**ON**	off
Wiegand I/F # 13	off	off	**ON**	**ON**	off
Wiegand I/F # 14	**ON**	off	**ON**	**ON**	off
Wiegand I/F # 15	off	**ON**	**ON**	**ON**	off
Wiegand I/F # 16	**ON**	**ON**	**ON**	**ON**	off
Wiegand I/F # 17	off	off	off	off	**ON**
Wiegand I/F # 18	**ON**	off	off	off	**ON**
Wiegand I/F # 19	off	**ON**	off	off	**ON**
Wiegand I/F # 20	**ON**	**ON**	off	off	**ON**
Wiegand I/F # 21	off	off	**ON**	off	**ON**
Wiegand I/F # 22	**ON**	off	**ON**	off	**ON**
Wiegand I/F # 23	off	**ON**	**ON**	off	**ON**
Wiegand I/F # 24	**ON**	**ON**	**ON**	off	**ON**
Wiegand I/F # 25	off	off	off	**ON**	**ON**
Wiegand I/F # 26	**ON**	off	off	**ON**	**ON**
Wiegand I/F # 27	off	**ON**	off	**ON**	**ON**
Wiegand I/F # 28	**ON**	**ON**	off	**ON**	**ON**
Wiegand I/F # 29	off	off	**ON**	**ON**	**ON**
Wiegand I/F # 30	**ON**	off	**ON**	**ON**	**ON**
Wiegand I/F # 31	off	**ON**	**ON**	**ON**	**ON**
Wiegand I/F # 32	**ON**	**ON**	**ON**	**ON**	**ON**

	DIP Switch #		
OPTION	**6**	**7**	**8**
1 Door Cntrl	off	**-**	**-**
2 Door Cntrl	**ON**	**-**	**-**
CPT-Wiegand	**-**	off	off
PW READER	**-**	**ON**	off
Spare	**-**	off	**ON**
Spare	**-**	**ON**	**ON**

INSTALLING PROXIMITY READERS

The Wiegand Interface board allows various access control readers/keypads to be connected to the RUNNER 8/64 key-pad bus.

The Wiegand Interface has an 8 way DIP switch that allows the keypad address to be set to a value between 1-32.

It also has two inputs and a relay output that are linked to the keypad address, eg if the Wiegand Interface board is set to keypad address number 15 (Switches 2, 3 & 4 ON) then input 1 can become zone 15 on the control panel (provided option 4, “zone is a keypad zone”, is turned on at panel program address P122E15E) and relay 1 will follow output 15 from the control panel.

This allows the input to be used for door monitoring or as a REX (request to exit) input that is controlled by the main panel.

It also allows the door control relay (output 1 on the Wiegand Interface) to be controlled by the main panel.

There is also two LED outputs for each reader port labelled LD1 & LD2. LD1 is preset to follow the status of the associated relay on the board, eg LD1 on wiegand interface 1 will follow relay 1.
LD2 has two functions.
The first is it gives a single flash when any card is presented or a button on the keypad is pressed.
The second is LD2 can be programmed to follow an output on the panel at program address P98E so that when the output is on LD2 will also be on to drive the LED on the reader. This can be used to indicate an arm/disarm state, etc.

The Buzzer output on the Wiegand reader connections will follow the keypad beeps from the panel. If the Wiegand keypad has a built-in numeric keypad the Buzzer output (BUZ) will beep as a button is pressed as audible feedback that the button was received by the panel. The same Buzzer output can also follow other beeps from the panel such as entry or exit delay beeps, chime zone beeps, etc.

DIP switch 6 sets the Wiegand Interface to be a single door or two door controller. If DIP switch 6 is off the board is a single door controller and only Wiegand interface 1 is used for the reader input. Input 1 can be linked to the zone number that matches the keypad address of the board and output 1 is linked to the output number that matches the keypad address. Also when DIP switch 6 is off, input two is linked to relay 1. If input 2 is triggered the output reset time programmed for the output associated with relay 1 will operate relay 1 for that timed period. Input 2 can therefore be used as a request to exit button.
If DIP switch 6 is on then both reader interfaces are used and both inputs and outputs are active. The second reader will be the address set by switches 1-5 plus 1, eg if the board address is set to number 12 (DIP switches 1, 2 & 4 ON) then reader interface 1 will be keypad address 12 and reader interface 2 will be keypad address 13. In the same example input 1 on the Wiegand interface can be set to zone 12 and input 2 set to zone 13, output 1 on the Wiegand interface will follow output 12 and output 2 will follow output 13.
NOTE: **Always ensure DIP Switch 6 is OFF if the board is to only use one keypad address otherwise there could be a keypad address clash, eg if one Wiegand IF board is addressed as keypad # 10 and another as keypad address # 11 but DIP switch 6 was turned ON on the board set as keypad # 10 there will be a clash due to there being two keypad # 11’s, one will be the second reader input on the board set as address # 10 and the other will be the board set as keypad address # 11.**

NOTE 2: If there is an address clash (eg two Wiegand IF boards set to the same address number) the 8 LED’s will display the following pattern, LED’s 1 & 8 On, changing to LED’s 2 & 7 On, changing to LED’s 3 & 6 On, changing to LED’s 4 & 5 On, then all 8 LED’s will flash together twice then the pattern will repeat until the address clash is removed.

DIP switches 7-8 allow the type of access control technology to be selected (see chart on page 8).There are two proximity readers that can be connected to the control panel. They are;

1-CPT-Wiegand reader/keypad
2-PW READER Prox/PIN readers.

Each Wiegand Interface board must have a unique keypad address number from 1-32 to avoid data conflicts and to allow assigned program options to be directed to the correct unit.

SELECTIVE ARM/DISARMING with MULTIPLE AREAS

At software version V225 a new method for selective arm/disarm when multiple areas are assigned to a user was added to make it more flexible. To use this new selective arm/disarm you must turn ON option 6 at P25E13E.

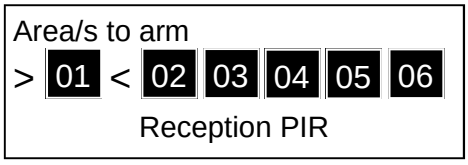
If a user has many assigned areas they can chose to select which area or areas they would like to arm or disarm. The areas assigned to the user must have “ARM Before Code” selected for all of the areas (P45E option 1 ON) and all areas assigned to the user must be assigned to their keypad (P71E) and the ARM button (P74E).

For example User 1 has 10 assigned areas and they are using Keypad # 1. The options to program are:

P2E1E User 1 has areas 01,02,03,04,05,06,07,08,09,10.
P45E1-10E Areas 1-10 have option 1 ON.
P71E1 Keypad 1 has areas 01,02,03,04,05,06,07,08,09,10.
P74E1 Keypad 1 “ARM” button has areas 01,02,03,04,05,06,07,08,09,10

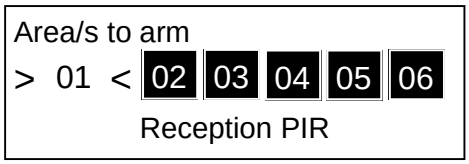
When User 1 enters ARM - CODE - ENTER they will be presented with a list of areas to arm.

The display would look like this (only 6 areas can be displayed at one time):



All displayed areas are highlighted so they are ready for Arming. Below this selection line will be the customised text name for the currently selected area (eg if area 01 was named “Reception PIR” that name will appear underneath the selected area number). The currently selected area is area 01 because it is inside the >< brackets. To select the next area and also see the other areas press the “BYPASS ▶ “ button to move the display to the right. To move back press the “ ◀— “ button to move back to the left.

If all the selected areas are to be armed simply pres the “ENTER” button to start arming of all areas.
To remove an area you can press the “ARM” button when the required area is selected. It will change to being un-highlighted as shown in the example below where area 01 was removed from the arming list.



By default all assigned areas will be highlighted meaning they are all going to arm. If the user wants to reverse that selection so that all areas are not highlighted (eg none will arm) they can press 00. To change it back the user can press 99 to select ALL areas again. If a user has a large number of areas assigned but they only want to arm a few of them they can press 00 to deselect all areas then use the “ARM” button to select the few they want to arm. If they want to arm most of the areas but exclude just a few they would start off with all areas selected (99) then simply deselect the few they don’t want using the “ARM” button. Once the selection has been made they simply press the ENTER button to arm the selected areas.

The same situation works for disarming only the user presses CODE - ENTER and they are presented with a list of areas to disarm. The selection toggle with the “ARM” button and the 00 & 99 functions work the same during disarm.

INPUTS

The RUNNER 8/64 control board has 9 separate programmable monitored analogue inputs,

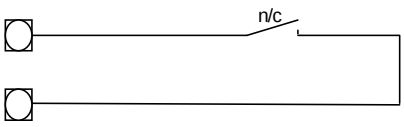
8 x Programmable, multi-state zone inputs
1 x Programmable tamper input

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

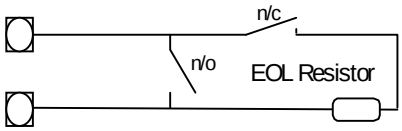
ZONE INPUTS - Each of the 8 zone inputs can be assigned one of the following End of Line (EOL) configuration options,

Zone EOL Type (P125E)	Input Resistor	Comments
0	(Short circuit)	Loop EOL
1	1k (Brown, Black, Red)	Single EOL
2	1k5 (Brown, Green, Red)	Single EOL
3 (P126E "Vibration Mode" only supports this EOL value)	2k2 (Red, Red, Red)	Single EOL
4	3k3 (Orange, Orange, Red)	Single EOL
5	3k9 (Orange, White, Red)	Single EOL
6	4k7 (Yellow, Violet, Red)	Single EOL
7	5k6 (Green, Blue, Red)	Single EOL
8	6k8 (Blue, Grey, Red)	Single EOL
9	10k (Brown, Black, Orange)	Single EOL
10	12k (Brown, Red, Orange)	Single EOL
11	22k (Red, Red, Orange)	Single EOL
12 (series)	2k2 Tamper, 4k7 Zone	Zone & Tamper
13 (series)	3k3 Tamper, 6k8 Zone	Zone & Tamper
14 (series)	2k2 Tamper, 4k7 Low Zone, 8k2 High Zone	Zone Doubling, with Tamper
15 (series)	4k7 Low Zone, 8k2 High Zone	Zone Doubling, No Tamper
16 (parallel)	4k7 Low Zone, 8k2 High Zone	Zone Doubling, No Tamper

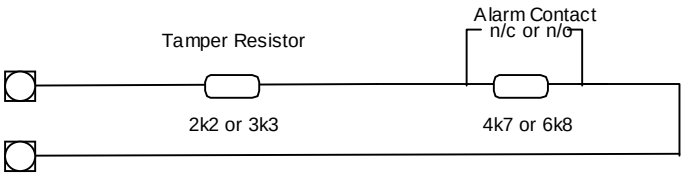
Type 0 (Short/Loop Circuit)



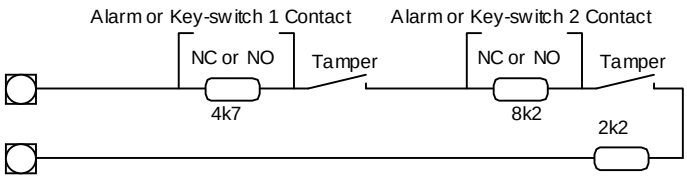
Type 1-11 (Single EOL no Tamper)



Type 12-13 (Single Zone with Tamper)

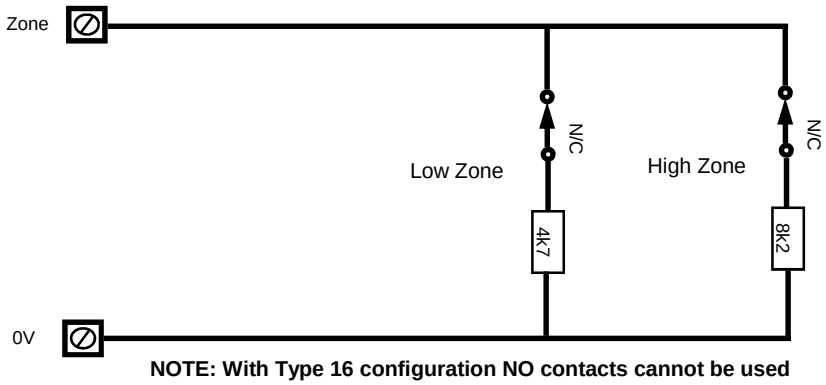


Type 14 (Zone Doubling with Tamper)



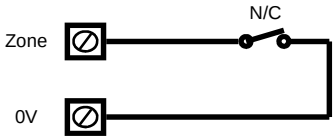
EXAMPLES OF ZONE WIRING OPTIONS

Type 16 Configuration. Zone doubling no Tamper monitoring

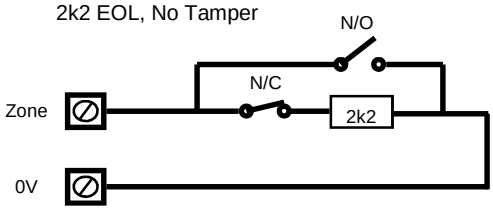


NOTE: With Type 16 configuration NO contacts cannot be used

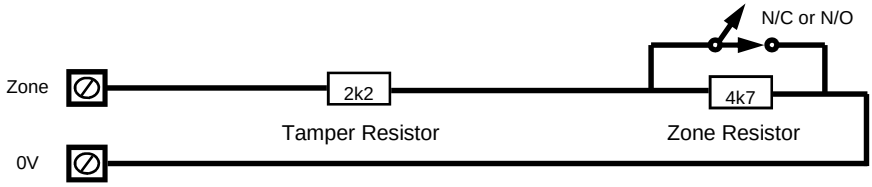
Short circuit loop, No EOL



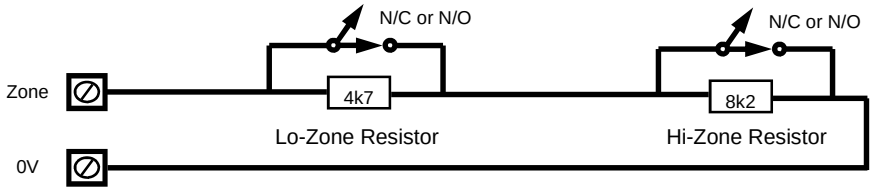
2k2 EOL, No Tamper



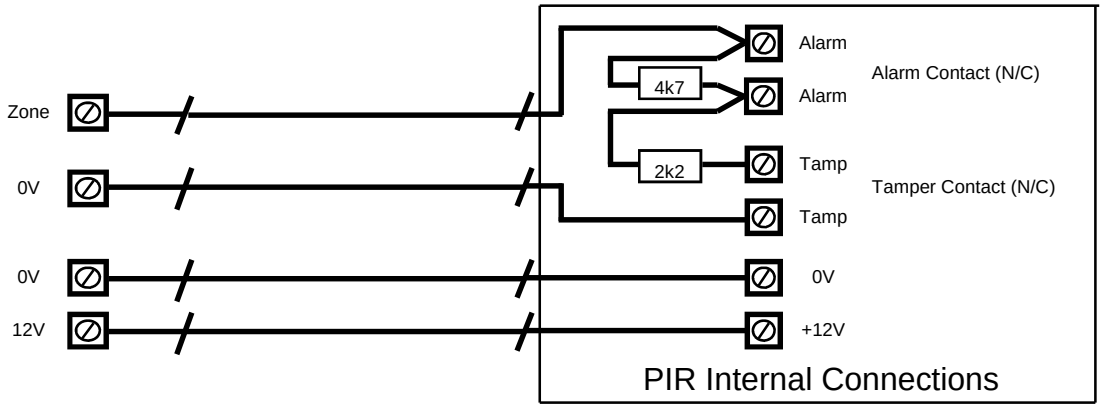
Type 12 Configuration. Alarm & Tamper monitoring (contacts can be N/C or N/O)



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



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



INPUTS cont.

TAMPER - A 24Hr tamper circuit is available for monitoring system tampers. This Tamper circuit is programmable as either normally closed loop or 2k2 EOL supervision (the default is normally closed loop). Any Tamper alarms on this input are mapped to alarm outputs in the same manner as for detection zones.

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

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

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

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

LINE IN - These terminals are used to connect the panel to the incoming telephone line. The dialler uses this line for reporting alarm events. An ADSL filter will be required before the Line In terminals if ADSL is present in the building.
LINE OUT - These terminals are used to connect telephones and other communication equipment to the incoming phone line via the panel dialler circuit. The telephone line is passed through the controller to ensure that the line is available to the controller when it is required.

OUTPUTS

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

OUTPUTS 1 & 2 - These fully programmable, high current, open drain (high-going-low) type FET outputs capable of switching up to **1.5A @ 12VDC.** These 2 outputs are normally set as switched outputs, providing power for 12V sirens or piezos. If required, these outputs can be programmed to be siren outputs designed to drive an 8 ohm 10 watt horn speaker on each output (see P37E option 1). If an inductive load is connected to these outputs a back EMF diode should be fitted.

OUTPUT 3&4 - These are medium current, open drain (high-going-low) type FET outputs capable of switching up to 1A. Like Outputs 1 & 2 they are fully programmable. If an inductive load is connected to these outputs a back EMF diode should be fitted.
NOTE: - ***Connecting devices that draw current in excess of 1A to outputs 3 or 4 will damage the output.***

OUTPUT 4 Relay - This is a relay output (rated 1A@30VDC) that works in parallel with the FET on output 4. It has single pole changeover contacts. Like Outputs 1 & 2 it is fully programmable.

KEYPAD PORT - The terminals marked *POS, NEG, CLOCK, & DATA* make up the communications port which the keypads and other intelligent field devices use to talk to the controller. The terminals are connected to corresponding terminals on the remote devices. The **"lin"** terminal is only used by the keypads and utilises a fifth wire to provide a communicator “**listen-in”** facility. This feature is particularly useful when servicing monitoring faults. The keypad 12V supply (*POS,NEG*) is protected by a thermal fuse.

EXPANSION PORTS - There are two high speed expansion ports (labelled EXP1 & EXP2) plus one 9600 baud serial port (labelled SERIAL). The serial port has no function at present and is provided for possible future use. The two expansion ports allow optional devices such as the Cellular back-up module, CAN bus interface and other peripherals to come later.

ETHERNET PORT - The on-board Ethernet port allows upload/download via the built-in web page, IP monitoring and remote control via Smartphone and tablet apps.

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.

CURRENT ALARMS

When viewing the memory event buffer at the keypad by pressing the "MEMÇ" button, the first thing that will always be displayed are any Current Alarms that are still active. When all current system alarms have been displayed the keypad will then start to show the historical memory events.
The chart below lists the possible current alarms that could be shown in memory.

	CURRENT ALARMS	FULL LCD Display
	None	No Faults
1	Mains Failure	Power Failure
2	Battery Low	Battery Low
3	12V Fuse or Output Failure	O/P or Fuse Fail
4	Telephone Line Failure	Phone Line Fail
5	Radio Detector Battery Low	Radio Batt Low
6	Radio Pendant Battery Low	Pendant Batt Low
7	Zone Supervise Failure	Supervised Fail
8	SensorWatch Alarm	SensorWatch Fail
9	Delinquency Alarm	Area Delinquency
10	Keypad Missing/Fault	Keypad Missing
11		
12		
13	Dialler Kiss-off Failure	Dialer Failure

HISTORICAL MEMORY EVENTS

Following the "Current Alarms" the panel will display the historical memory events. The panel stores the most recent events, (up to approx 12000), including all alarm events, all system events such as mains failure etc as well as arming by Area. The memory events are displayed chronologically with the most recent event shown first and subsequent events following in descending order from newest to oldest.
To view events simply press the "MEMÇ" button to move to the next event. If you wish to go back and look at an earlier event you can use the "È" button to go back to an earlier event. Each time the Down arrow is pressed the memory will go back one event.
The keypad will beep and the display is advanced to the next event every time the "MEMÇ" button is pressed. When all events in memory have been displayed the keypad will exit memory mode and return to the normal idle state. To cancel the memory display just press "ENTER". If no buttons are pressed for a period of 20 seconds the keypad will automatically exit memory display mode.

FULL LCD KEYPAD INSTALLATION

INSTALLATION

Connect the 4 wires from the keypad bus on the main control panel to the corresponding connections on the keypad (DAT, CLK, POS & NEG) The 5th wire is an optional “Listen-in“ connection. It is connected from the "Input" terminal of the keypad to the "Lin" terminal of the panel keypad port. With the Listen-in wire connected the user can hear the call progress during dialling at the keypad (provided the desired program options at address P175E 6E are turned on). The keypad input must not be set as a zone (P122E option 4) for the listen-in feature to work.

The maximum recommended cable distance using standard 0.2mm security cable is 50m, or 100m using 0.5mm security cable. For longer cable runs there is a keypad bus extender module available.

FULL LCD KEYPAD ADDRESS ASSIGNMENT

A total of 32 devices (keypads or wiegand interface modules) can be connected to the panel. Each keypad must be addressed individually to avoid BUS conflicts when multiple users are operating different keypads simultaneously. By default, each keypad comes addressed as KP # 1.
Setting the LCD keypad address is done in “Local Program Mode”.

To enter **“Local Program Mode”** on the **FULL LCD** Keypad you must press <PROGRAM> then <BYPASS> then <ENTER> (sequential button entry). The display will show “keypad number” and the currently assigned keypad address number will be shown.
By pressing any number from 01-32 then pressing <ENTER> the keypad will change it’s address to the new entry and automatically exit Local program mode.

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

FULL LCD KEYPAD ZONE INPUT

On the FULL LCD keypads there is a spare terminal labelled “Input”.
This input can be used for listening in when the dialler is active or as a zone input linked back to the main panel.

The zone associated with the keypad input is linked to the keypad address, eg if the keypad address is set to 23 the input on the keypad will be linked to zone 23.

If the zone input at P122E has option 4 turned off the keypad input is used for the listen in function.
If option 4 is turned on the input will work as the associated zone input, eg if the keypad address is set to 23 and option 4 is turned on at P122E 23E the keypad input will work as zone 23 sending sealed and unsealed status back to the panel.

FULL LCD KEYPAD ADJUSTMENTS

ADJUSTING THE LCD KEYPAD BACKLIGHTING

The installer can adjust the backlight level of each LCD display and the keypad button backlight levels by programming the required value at P95E in the main control panel.

The value is a range from 0-100%.
If set to 0 both the LCD and the keypad button backlighting will be off.
If set to 100 both will be set to the maximum.

The program option is P95E 01-32E (for keypad # 1-32) 0-100E (0-100%)

ADJUSTING THE KEYPAD BUZZER TONE – FULL LCD

To change the buzzer frequency and hence volume on the **FULL LCD** Keypad you must follow the instructions below;

Press and hold down the <CONTROL> button then within 2 seconds press the <1> button to increase the frequency or press the <2> button to decrease the frequency.
To move through the different frequencies you have to continue to hold down the <CONTROL> button and press and release either the <1> or <2> button to move through the different settings.

DISPLAY IP & MAC ADDRESS AT THE KEYPAD

When the panel is in normal mode (ie not in program mode) it is possible to display the currently assigned IP address for the panel and the MAC address.

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.

FULL LCD KEYPAD TEXT EDITING

The FUL LCD keypad has various text locations that allow for customising of names that will appear when viewing events in memory mode. For example all of the 2000 users can have a unique 20 character name. All LCD Text editing is done in the “Installer Program Mode” at the main control panel. A list of the text that can be customised when in Installation Program mode is as follows;

Program LCD KP “User “Name

P16E 1-2000E Program LCD KP “User” Name Text

LCD KP “Idle” Display Name

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

Program LCD KP “Output” Name

P31E 1-32E Program LCD KP “Output” Name Text

Program LCD KP “Area” Name

P69E 1-32E Program LCD KP “Area” Name Text

Program LCD KP “Keypad” Name

P100E 1-32E Program LCD KP “Keypad” Name Text

Program LCD KP ” Zone” Name

P169E 1-64E Program LCD KP “Zone” Name Text

When in Installer Program Mode and at one of the above program locations the arrow buttons can be used.

The “MEMÇ” or the “È” buttons can be used to change between upper (Capital) and lower case letters. The “Å” or “Æ” buttons can be used to move the cursor left or right to the letter you wish to change.

In the chart below the main characters are those selected when set to Upper case (Capital) mode. The characters in brackets are those selected when in lower case mode.

▼Button #	1st Press	2nd Press	3rd Press	4th Press
1	* (‘)	# (<)	= (>)	1
2	A (a)	B (b)	C (c)	2
3	D (d)	E (e)	F (f)	3
4	G (g)	H (h)	I (i)	4
5	J (j)	K (k)	L (l)	5
6	M (m)	N (n)	O (o)	6
7	P (p)	Q (q)	R (r)	7
8	S (s)	T (t)	U (u)	8
9	V (v)	W (w)	X (x)	9
0	Blank	Y (y)	Z (z)	0

FULL LCD KEYPAD MENU PROGRAMMING

The FULL LCD Keypad enables "Menu" programming of the RUNNER 8/64 panel. Easy to follow plain text Menus will be displayed on the keypad to enable selection of the desired programming options.

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

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

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

ÅÆ <Left> or <Right> arrow keys can be used when in the Data Entry-Menus to cycle through the options (eg if in "USERS" Data Entry-Menu, the options would be Users 1-2000, if in "ZONES" the options would Zones 1-64, etc).

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

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

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

To access a desired program location you first navigate to the desired Main-Menu by using the "Ç Up" button to cycle forward through the menu headings (the "È Down" button moves backwards through the menu headings). Each press of "Ç Up" button will advance the display to the next Menu heading.
The Main-Menu headings are shown on the top line of the LCD display.
To access the Sub-Menu options from a Main-Menu press the <ENTER> button.

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

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

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

SELECTING THE DATA ENTRY-MENU HEADINGS

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

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

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

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

You can use the "Å Left" or "Æ Right" arrow keys to cycle through all of the User codes. This allows you to program all of the user codes from 1-2000. The "Æ Right" arrow key when pressed will take you up one User at a time and the "Å Left" arrow key will take you down one User, eg if the display was currently showing "USER CODE 10", pressing the "Å Left" arrow key will take the display to "USER CODE 9", pressing the "Æ Right" arrow key will take the display to "USER CODE 11".
You can also use the "Å Left" or "Æ Right" arrow keys to move through all of the User codes, and while at a particular User, you can also use the "Ç Up" or "È Down" arrow keys to program all options for that User.

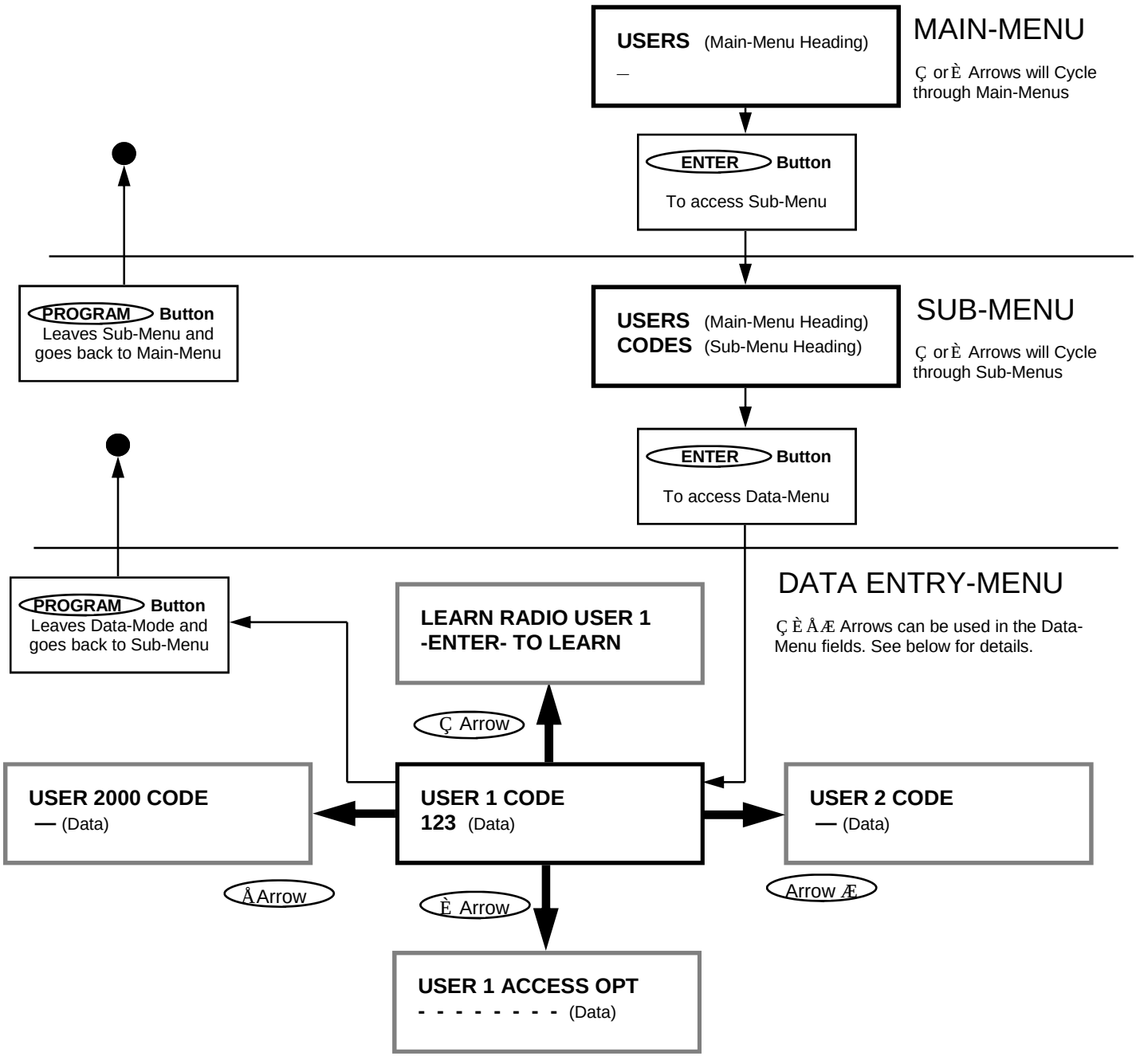
STEPPING BACK THROUGH THE MENUS

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

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

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

<u>The flowchart below indicates the program menu steps using the “ARROW” , “ENTER” & “PROG” Buttons on the keypad.</u>



ACCESSING PROGRAM MODE

ACCESS TO INSTALLER PROGRAMMING ON POWER UP (INSTALLER MODE)

When power is applied to the controller for the first time and with the ***panel tamper input open***, the panel will inhibit tamper alarms and ready the panel to enter **INSTALLER PROGRAM MODE** (unless the Installer Lock-out at address P25E10E Option 8 has previously been enabled). At this point you can go to any keypad which is connected to the panel and press **<PROGRAM> <ENTER>** which will automatically put that keypad into full Program mode. The **LCD** will display **"Installer: USERS"** (NOTE: Only one keypad can be in Program mode at any time).

ACCESS TO INSTALLER PROGRAM MODE FROM RUN MODE

Before you can enter Installer program mode from normal operating mode, the panel must not be Armed or in Stay mode (eg completely disarmed). Program mode access is inhibited if any part of the system is Armed.

Press <**PROGRAM**> - <**Installer Code**> - <**ENTER**>
*The **LCD** will display **"Installer: USERS"***
Note: Default Installer Code (P25E1E) is 000000.

You are now in Installer Program Mode. Any program addresses may be viewed or changed in this mode.

ACCESS TO CLIENT PROGRAM MODE FROM RUN MODE

Press <**PROGRAM**> - <**Master User Code**> - <**ENTER**>
*The **LCD** will display **"Client: USERS"***
Note: Default Master User Code is code # 1 (P1E1E) which is 123.

You are now in Client Program Mode. Access to certain program locations is limited while in Client mode (see the options at address P5E). Each User can have different privileges based on the options assigned to the User at address P5E. If no options are set at address P5E for a user, they will not be allowed access to Client program Mode.

RESETTING BACK TO FACTORY DEFAULT SETTINGS (From Install Mode Only)

There are two addresses that allow you to reset the panel back to the factory defaults. The first resets just User Codes, Installer Code & Telephone Numbers. The Second resets all programming back to the factory Defaults.

e.g. To reset All System defaults:

Press <**PROGRAM**> - <**P200E10E**> - <**ENTER**>
3 short beeps if OK - 1 long beep if error

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

To reset partial defaults:

Press <**PROGRAM**> - <**P200E9E**> - <**ENTER**>
3 short beeps if OK - 1 long beep if error

The partial reset to defaults will return all User Codes, the Installer Code and Telephone Numbers back to the values shown in the Program Summary as defaults. These values have been chosen as the most common set-up for the majority of systems.

<u>TO EXIT PROGRAM MODES USING FULL LCD KEYPAD</u>

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

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

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

If no buttons are pressed for 30 minutes the panel will automatically exit program mode

Note: While in Program Mode all Tampers and 24 hour alarms are disabled which allows quiet access to the panel, detectors and external siren units, etc. On exiting program mode, all inputs are scanned and if any tampers or 24Hr alarms are present an activation will occur.

TYPICAL PROGRAM SEQUENCE

The programming sequence follows this pattern;

<**PROGRAM**> - <1,2 or 3 digit program address> - <**ENTER**> *(Program Address)*
1 short beep if OK - 1 long beep if error, THEN

<**PROGRAM**> - <1,2, 3 or 4 digit sub-address> - <**ENTER**> *(Sub-Address)*
3 short beeps if OK - 1 long beep if error

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

Throughout this manual you will see program instructions expressed as per the example below
P 1 E 1-2000 E

Using the above example the <P> represents the <**PROGRAM>** key and <E> represents the <**ENTER>** key. <1> refers to the address for programming User Codes and <1-2000> refers to Users 1-2000.

USER CODES

Note: Where there are up to 32 options at one address, the digits 0 & 9 have special functions. Entering a 0 at the address will turn all options off whereas entering a 9 will turn all options on. Also pressing and holding the 0 will delete data such as user codes, telephone numbers, account codes, etc.

USER CODES - P1E 1-2000E (NOTE: Users 101-2000 can be Radio Users)
Adding or changing a User Code

Up to 2000 codes can be programmed into the panel. The user codes are located in address P1E 1-2000E.
By default, Code 1 has Master Code permissions and must be used to enter Client program mode.
Codes 1-2000 may be varied in length from 1 to 6 digits (unless option 8 at P25E11E is on then the codes must be between 4-6 digits long).

To program a User Code you must first be in client or installer program mode, then select the address P1E followed by the User Number you wish to program eg 1-2000E (If there is already a code programmed at this address, it will be displayed back to you) Now enter the code then press the <**ENTER>** key.

eg. P1E2E 2580 E
3 beeps
In the above example we have programmed Code 2 to be 2580.

eg. P1E5E 9876 E
3 beeps
In the above example we have programmed code 5 to be 9876

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

Removing a User Code

To remove or delete a code you can press and hold the <Control> button then within 2 seconds press the <0> button (maintained for compatibility with the current RUNNER operation) or you can press and hold the <0> button for 3 seconds to delete the code. We recommend using the second option of holding the <0> button for 3 seconds.

eg. To delete code 3 press P1E3E then hold <0> down for 3 seconds
3 beeps
User Code # 3 Erased

USER CODE TYPE

USER CODE TYPE - P2E 1-2000E (NOTE: only Users 101-2000 can be Radio Users)

Option 0 - Keypad Code User {PIN}
Option 1 - Radio user (User 101-2000 only)
Option 2 - Access Tag/Card User
Option 3 - Both Code and Access Tag/Card User {Tag + PIN}
Option 4 - Either Code or Access Tag/Card User {Tag or PIN}

Option 0 **Keypad Code User {PIN}** - All 2000 Users can be 1-6 digit code Users if required. Codes can be used to Arm/Disarm all or part of the alarm or they can be used to operate outputs for access control purposes. Users can be assigned to operate at multiple keypads and assigned to control multiple outputs. A keypad can also be assigned to control selected outputs so that a User assigned to multiple outputs (which can in turn be linked to doors) can only operate the door assigned to the keypad they are using.

Option 1 **Radio User** - Users 101-2000 can be Radio keys (Pendant) if required. Radio keys can be used to Arm/ Disarm all or part of the alarm or they can operate outputs directly. Unlike user codes, a radio key cannot be assigned to a keypad so if a radio key is assigned to more than one output and the radio key is operated, all of the outputs assigned to the radio key will turn on.

Option 2 **Access Tag/Card User** - Users 1-2000 can be Access Tags or Cards if required. Access Tag or Card operation requires that the optional Proximity Reader is connected to the panel via a Wiegand Interface Board. The Proximity Readers can be assigned to any one of the 32 possible keypad addresses. Access Tag or Card Users can be assigned to operate at multiple keypads and assigned to control multiple outputs. A keypad can also be assigned to control selected outputs so that an Access Tag or Card User assigned to multiple outputs (which can in turn be linked to doors) can only operate the door assigned to the keypad they are using.

Option 3 **Both Code and Access Tag/Card User {Tag + PIN}** - Up to 2000 code Users and up 2000 tag or card Users can be stored in the panel. If the Proximity Reader with the full keypad is installed on the panel, it is possible to arm/disarm the alarm or gain access through a door by presenting the tag/card at the reader then entering in the user code {PIN Number}. It MUST be in that order ie Tag then PIN. This option provides a more secure means of arming or disarming the alarm, or gaining access through a door, because it requires both the access tag/card plus the PIN number.

Option 4 **Either Code or Access Tag/Card User {Tag or PIN}** - Up to 2000 code Users and up 2000 tag or card Users can be stored in the panel. If the Proximity Reader with the full keypad is installed on the panel, it is possible to arm/disarm the alarm or gain access through a door by entering in the user code at the reader or presenting the tag/card at the reader. This option gives two methods of controlling the alarm.

USER AREAS

USER AREAS - P3E 1-2000E

Option 01 - 32 Assigned to Area 1-32

Option 01 **Assigned to Area 1** - If a User has option 1 on, they can Arm/Disarm all zones assigned to Area 1

Option 32 **Assigned to Area 32** - If a User has option 32 on, they can Arm/Disarm all zones assigned to Area 32

Any combination of the above areas may be assigned to Users 1-2000.

USER ACCESS OPTIONS

USER ACCESS OPTIONS - P4E 1-2000E

Option 1 - User can Arm Area
Option 2 - User can Arm Stay Area
Option 3 - User can Disarm Area
Option 4 - User can Disarm Stay Area
Option 5 - User is a Security Guard User
Option 6 - User will Arm Latchkey Mode
Option 7 - User can reset latched Egress Outputs
Option 8 - User can View Event Memory

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

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

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

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

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

Option 6 **User will Arm Latchkey Mode** - If this option is ON, the User will Arm the alarm in Latchkey Mode. Latchkey Mode can also be armed by using the <ARM>, <STAY>, <A> or <B> buttons, (see P75E, P77E, P79E & P81E option 6) or the key-switch (see P120E option 6). If a User with this option ON

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

Option 7 **User can reset latched Egress Outputs -** If this option is on the user can reset all outputs that have been turned on by an Egress Input. The outputs will stay on overriding any programmed output reset times (PO40E) until reset by this code.

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

USER CODE PRIVILEGES

USER CODE PRIVILEGES - P5E 1-2000E **(see chart on page 96 for the exact program locations)**

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

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

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

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

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

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

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

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

USER CODE MISCELLANEOUS OPTIONS

USER CODE MISC OPT. - P6E 1-2000E

Option 1 - User is Excluded from Global Trouble Reset (see P25E10E option 4)

Option 1 **User is Excluded from Global Trouble Reset** - If option 4 is ON at P25E10E then any valid user can reset trouble alarms. If this option is ON they can only reset trouble alarms in areas associated with the user.

RADIO USER TYPE

RADIO USER TYPE - P7E 101-2000E (NOTE: only Users 101-2000 can be Radio Users)

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

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

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

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

RADIO USER PRIVILEGES

RADIO USER PRIVILEGES - P8E 101-2000E (NOTE: only Users 101-2000 can be Radio Users)

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

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

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

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

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

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

TIMEZONE ASSIGNED to a USER

TIMEZONE ASSIGNED to a USER - P9E 1-2000E

Option 01 - 32 - User Controlled by Time Zone # 1-32

There are up to 32 Time Zones that can be programmed into the panel. A Time Zone consists of a Start and Stop time plus the Days of the Week that the Time Zone is active. By turning on Options 01-32 (assigning any combination of Time Zones 1-32) to a particular User, that user will only operate if the Time Zone/s assigned is/ are active.

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

More than one Time Zone can be assigned to a User. Using the above example for TZ#1 and now assuming Time Zone #2 is set to 0900-1200 on day 7 (Saturday), by assigning both TZ1 & 2 to a User will now mean their code is active during weekdays from 0800-1700 plus they are also able to use their code on Saturdays between the hours of 0900-1200.

If the time-zone has just been programmed and should currently be active you will have to wait until the next minute expires before the panel will update the time-zone status. You can see if the time-zone is active at location P200E4E.

USER ACTIVATES DORMANT TIMEZONE

USER ACTIVATES TIMEZONE - P1032E 1-2000E

Option 01 - 32 - User Activates Time Zone # 1-32

There are up to 32 Time Zones that can be programmed into the panel. A Time Zone can be programmed to be Dormant unless activated by a User by turning on option 2 at P174E.

An example of how to use a Dormant Time Zone is when the front door of a building is set to automatically unlock at the start of a Time Zone and lock when it ends. If the Time Zone is set to a dormant type the door will not unlock until a valid user has accessed the building. Once the valid user has accessed the building the door will unlock and remain unlocked until the Time Zone ends. Valid users are selected at the new program location P1032E. A user is assigned to a Time Zone at P1032E and if that Time Zone is set to be dormant it will not start until the user accesses the building.

USER to KEYPAD ASSIGNMENT

USER to KEYPAD ASSIGNMENT - P10E 1-2000E

Option 01 - 32 User will work at Keypad # 1-32

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

RADIO PENDANT PANIC BEEPS to KEYPAD

RADIO PENDANT PANIC BEEPS to KEYPAD - P11E 101-2000E (NOTE: only Users 101-2000 can be Radio Users)

Option 01 - 32 A Pendant Panic Alarm will Beep at Keypad # 1-32

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

USER can turn an OUTPUT ON

USER can turn an OUTPUT ON - P13E 1-2000E

Option 01 - 32 User can turn ON Output # 1-32

Any user can be allowed to turn an Output ON. This Function will allow Users (Code, Tag/Card or Radio Users) to turn ON an assigned Output. Once an Output is turned ON by a User, the Output can turn OFF again automatically if a reset time is assigned to the Output. If no reset time is assigned to the output (Address P40E) the output must then be turned off by a User with the same output assigned at P14E.

USER can turn an OUTPUT OFF

USER can turn an OUTPUT OFF - P14E 1-2000E

Option 01 - 32 User can turn OFF Output # 1-32

Any user can be allowed to turn an Output OFF. This Function will allow Users (Code, Tag/Card or Radio Users) to turn OFF an assigned Output that has previously been turned on by a user with option P13E assigned.

RADIO PENDANT PANIC ALARM to OUTPUT

RADIO PENDANT PANIC ALARM to OUTPUT - P15E 101-2000E (NOTE: only Users 101-2000 can be Radio Users)

Option 01 - 32 A Pendant Panic Alarm will Operate Output # 1-32

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

PROGRAM FULL LCD KP "USER" NAME

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

Each User can have a custom name that will be displayed when in Memory Mode. The FULL LCD KP "User" name text is programmed at this location.

BULK COPY A USER TO A RANGE OF USERS

Bulk COPY a User to a range of Users - P17E

It is possible to set up a single User and then copy the programmed data for that user to a range of users. For example if User 10 was set up as a template and that data was required to be copied to Users 11 to 100 inclusive then once user 10 has been fully programmed by entering in P17E 10E followed by 11E then 100E the panel will copy User 10's settings to all users from 11 to 100. This process can be repeated many times with different Users set up as a template and a different range of user addresses.

LEARN RADIO PENDANT CODES

LEARN RADIO PENDANT CODES - P18E 101-2000E (NOTE: only Users 101-2000 can be Radio Pendants)

A Radio Pendant must be enrolled into the panel before it can be used.
To learn a Radio Pendant you must first have a compatible receiver connected to the panel keypad buss. With the receiver connected and the panel in program mode, entering P18E then the pendant number you wish to enrol, eg 101E for pendant 101, the keypad will start to beep to indicate that learn mode has been started and the LED on the receiver will flash. Now operate the pendant you wish to learn into User slot 101. Once the transmitted code has been received by the panel and saved as pendant 101, the keypad will stop beeping and the LED on the receiver will stop flashing.

When learning a new radio code the panel checks all possible locations (including radio zones) before saving the new code to ensure that the code has not already been loaded into another slot. If the code already exists, the keypad will indicate which slot the code is already installed at. A number from 1-64 indicates a zone slot and a number from 101-2000 indicates a user slot.

DELETE a RADIO PENDANT CODE

DELETE a RADIO PENDANT CODE - P19E 101-2000E (NOTE: only Users 101-2000 can be Radio Pendants)

If you wish to delete a single Radio Pendant, pressing P19E then the Pendant User number while in Program Mode will delete the stored code against that User, eg P19E 101E will remove the code stored for User 101.

FIND a RADIO PENDANT LOCATION

FIND a RADIO PENDANT LOCATION - P20E ENTER (NOTE: only Users 101-2000 can be Radio Pendants)

If you have a Radio Pendant loaded into the panel but are unsure which location (User #), pressing P20E then ENTER while in Program Mode will start "Find" Mode. The keypad will start to beep to indicate that "Find" mode has been started and the LED on the Receiver will flash. Now press the Radio Pendant button that you wish to find. If the Radio Pendant is in memory the keypad will display the number (1-64 indicates a zone, and 101-2000 indicates a user). The keypad will stop beeping and the LED on the Receiver will stop flashing.

LEARN ACCESS TAG/CARD CODES

LEARN ACCESS TAG/CARD CODES - P21E 1-2000E

An Access Tag/Card must be enrolled into the panel before it can be used. Each tag can be learnt via a Prox reader connected to the panel (using this program address) or the Tag/Card codes can be manually entered at address P24E. The panel can have up to 2000 proximity tags (key-ring style card), or proximity cards loaded into the system. The tags or cards are stored separately to the User Codes but they follow the options of Users 1-2000 programmed at locations P2E, P3E, P4E, P9E, P10E, P13E & P14E. For example if user 11 is assigned to Area 1 (P3E Option 01), and can arm/disarm the alarm (P4E Options 1 & 3), then access Tag/Card number 11 will arm/ disarm Area 1 also.

To learn an Access Tag/Card you must first have a compatible proximity reader connected to the panel keypad

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

DELETE an ACCESS TAG/CARD CODE

DELETE an ACCESS TAG/CARD CODE - P22E 1-2000E

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

FIND an ACCESS TAG/CARD LOCATION

FIND an ACCESS TAG/CARD LOCATION - P23E ENTER

If you have an Access Tag or Card loaded into the panel but are unsure which location (User #), pressing P22E then ENTER while in Program Mode will start “Find” Mode. The keypad will start to beep to indicate that “Find” mode has been started. Now present the Access Tag or Card you wish to find to a proximity reader connected to the panel. If the Tag or Card is in memory the keypad will display the number where the Tag or Card is stored (a number from 1-2000). The keypad will stop beeping once the memory location has been found.

Manually enter in a Card/Tag Printed Number

P24E 1-2000E - Enter in the 10 digit printed card/tag number

The Access Tags/Cards come with a printed 10 digit decimal number. To eliminate the need to learn the Tag/card number via a Prox reader (address P21E) the printed number can be manually entered at this address.

Code/Tag/Radio User Usage Count

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

If an access Code, Tag/Card or Radio User has a value between 1-254 programmed at this address the user will only be able to be used that number of times before it stops working. Every time the User uses their Code, Tag or Radio button the programmed count will reduce by 1 until it reaches a value of zero. When the value is zero the User will stop working. If a value of 255 is programmed the user will always work.

Code/Tag/Radio User Start Date

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

If an access Code, Tag/Card or Radio User has a start date programmed at this address the user will only be able to be used when that start date has been reached. The start date begins at 00:00 on the date programmed. If a value of 00:00:00 is programmed the start date is ignored.

Code/Tag/Radio User End Date

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

If an access Code, Tag/Card or Radio User has an end date programmed at this address the user will only be able to be used until midnight of the programmed date. If a value of 00:00:00 is programmed the end date is ignored.

Code/Tag/Radio User Start Time

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

If an access Code, Tag/Card or Radio User has a start time programmed at this address the user will only be able to be used when that start time has been reached. If a value of 00:00 is programmed the start time is ignored.

Code/Tag/Radio User End Time

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

If an access Code, Tag/Card or Radio User has an end time programmed at this address the user will only be able to be used up to the end time at which time it will stop working. If an end time of 09:59 was programmed the user will work until the end of the 59th minute (eg the user will work up to 10:00). If a value of 00:00 is programmed the end time is ignored.

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

INSTALLER CODE

INSTALLER CODE - P25E 1E

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

DURESS DIGIT

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

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

DIAL REPORT DELAY

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

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

RADIO ZONE SUPERVISED TIMER

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

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

TWO TRIGGER TIMER

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

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

MAINS FAIL REPORTING DELAY

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

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

RECEIVER FAIL DELAY

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

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

UPLOAD/DOWNLOAD SITE CODE NUMBER

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

The upload/download site code number provides a security access level to the panel when accessed externally. The number can be up to 8 characters in length. Valid characters for this number are 0-9,B-F. See chart on page 55 for details of how to program the characters B-F.

TEMPORARY OUTPUT DISABLE

TEMPORARY OUTPUT DISABLE - P25E 9E (Select output # 01-32)

This address allows a technician to select any output/s to be temporarily disabled for one alarm or armed cycle, eg by selecting P25E 01 02 03 04E (Outputs 1-4) at this location then leaving program mode, outputs 1-4 will not turn on following any alarms. The technician is now free to arm the system to test all monitoring signals without having any internal and/or external alarms activating. When the alarm is reset or disarmed all outputs will now work normally again.

MISCELLANEOUS PANEL OPTIONS

MISCELLANEOUS PANEL OPTIONS - P25E 10E

Option 1 - Panel Tamper is 2k2 EOL
Option 2 - Direct access to program mode for the Installer Code
Option 3 - Disable Mains Fail Test
Option 4 - Globally reset trouble alarms
Option 5 - Cannot arm the alarm if Receiver fail mode is active
Option 6 - Enable iPSU AC and Battery Low monitoring
Option 7 - Cannot arm if the system battery is low.
Option 8 - Installer Lockout

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

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

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

Option 4 **Globally reset trouble alarms -** If this option is OFF and trouble alarms are created in multiple areas a valid user can only reset the trouble alarms in their associated areas. If this option is ON a valid user can reset all trouble alarms. Users can be excluded from this by turning on option 1 at P6E.

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

Option 6 **Enable iPSU AC and Battery Low monitoring -** If an optional power supply (iPSU) is fitted to any of the zone or output expanders they can monitor the AC fail and battery low conditions. If this option is turned off the panel will ignore any AC fail of battery low signals from an iPSU. If turned on the fault

conditions are displayed and reported by the control panel.

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

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

INSTALLER OPTIONS

INSTALLER OPTIONS - P25E 11E

Option 1 - Installer MUST enter program mode via Client mode to reset confirmed alarms
Option 2 - Installer MUST enter program mode via Client mode to reset tamper alarms
Option 3 - Installer MUST enter program mode via Client mode to reset low battery alarms
Option 4 - Installer MUST enter program mode via Client mode to reset supervisory alarms
Option 5 - Cannot Arm if there is a keypad Fault
Option 6 - Cannot Arm if there is a Telephone Line Failure or Comms Fault
Option 7 - 10 Incorrect Code Attempts locks out the keypad for 90 Seconds
Option 8 - User Codes Must be 4-6 digits long

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

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

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

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

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

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

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

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

USER OPTIONS

USER OPTIONS - P25E 12E **(NOTE: This Option can ONLY be accessed from Client Mode)**

Option 1 - Hide User Codes from Installer

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

MISCELLANEOUS USER OPTIONS - P25E 13E

Option 1 - Code Required to View Memory
Option 2 - Cancel Handover Zone Function in Stay Mode
Option 3 - Output Control from Keypad is Disabled when Armed
Option 4 - Keypad Codes are Disabled During Entry Delay
Option 5 - Keypad LED's and Backlight off on no activity
Option 6 - Use new multi-area arming method
Option 7 - Enable Keypad Tamper Switch Alarms
Option 8 - Spare

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

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

Option 3 **Output Control from Keypad is Disabled when Armed** - If this option is turned on any User code programmed to operate an output for access control will be disabled when the area/s assigned (P3E) to the user code is/are armed. If the user code is assigned to area 1 but area 2 was armed the code can still operate the output. If no areas are assigned at P3E this option has no effect on the User code.

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

Option 5 **Keypad LED's and Backlight off on no activity** - If this option is turned on and there is nothing happening on the system, eg no zone activity, the LED's on all keypads and all the backlighting will turn off. This is particularly suited for keypads that might be mounted in a bedroom. If a zone triggers the LED's will turn on for 10 seconds then turn off again.

Option 6 **Use new multi-area arming method -** If this option is off and multiple areas are assigned to a user the system will work in the original manner. If this option is on it will work as detailed on page 10.

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

LCD KP "Idle" Display Name

LCD KP "Idle" Display Name - P25E 14E
This location is where the LCD KP "Idle" Display Name can be Programmed. The Idle display name could be the installing alarm company name, or a 24 hour call out number or what ever is deemed the best use for the Idle message. The options that can be selected at P96E will affect whether this Idle display message is shown at the keypad or not so refer to P96E as well.

WEBPAGE "INCORRECT LOGIN" COUNT

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. Using a valid code at the panel keypad to arm/disarm the

panel will reset this count.

WEBPAGE "INCORRECT LOGIN" LOCKOUT TIME

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. Using a valid code at the panel keypad to arm/disarm the panel will reset this time.

WORLD TIME ZONE

World Time Zone - P25E17E
When using Internet time (option 3 on at address P201E4E) the local time zone for the country can be selected here from the 38 different time zones. The following table lists the various time zones in the order they appear on the web page and the LCD keypad.

TIME ZONE SELECTION AT P25E17E.		
-11:00 US Samoa	+00:00 UK London	+08:00 AU Perth
-10:00 US Hawaii	+01:00 Vienna	+08:30 North Korea
-09:30 US Marquesas Islands	+02:00 IL Jerusalem	+08:45 AU Eucla
-09:00 US Alaska	+03:00 Moscow	+09:00 South Korea
-08:00 US Pacific Tijuana	+03:30 Tehran	+09:30 AU Adelaide
-07:00 US Mountain Arizona	+04:00 Abu Dhabi	+10:00 AU Sydney
-06:00 US Central America	+04:30 Kabul	+10:30 Lord Howe Island
-05:00 US Eastern	+05:00 Karachi	+11:00 New Caledonia
-04:00 La Paz	+05:30 New Delhi	+12:00 New Zealand
-03:30 Newfoundland	+05:45 Kathmandu	+12:45 Chatham Islands
-03:00 Argentina	+06:00 Dhaka	+13:00 Samoa
-02:00 South Georgia	+06:30 Yangon Rangoon	+14:00 Kiritimati
-01:00 Azores	+07:00 Thailand	

PROGRAM MODE/ARMING OPTIONS

PROGRAM MODE/ARMING OPTIONS - P25E 18E

Option 1 - Can enter program mode when another area is armed
Option 2 - Can arm when a keypad in a different area is in program mode
Option 8 - Hide extended information in the memory events

Option 1 **Can enter program mode when another area is armed** - Normally if any area is armed the panel cannot access program mode. If this option is turned on it is possible to access program mode from a keypad that is assigned to a different area to any areas that are armed, eg if KP#1 was in area 1 and KP#2 was in area 2 and area 2 was armed you can access program mode from KP#1.

Option 2 **Can arm when a keypad in a different area is in program mode** - Normally if the panel is in program mode at a keypad no areas can be armed. If this option is turned on it is possible to arm an area while the panel is in program mode provided each keypad is in a different area eg if KP#1 was in area 1 and KP#2 was in area 2 and KP#1 was in program mode it is still possible to arm area 2 at KP#2.

Option 3 **Serial over IP Authentication Required** - Normally if Serial over IP is enabled (P201E4E option 4 On) the remote device can talk directly to the panel on the nominated port. If this option is turned on Authentication will be required in the form of a user name and password (programmed at Addresses P25E19E & P25E20E).

Option 8 **Hide extended information in the memory events** - When viewing the Activity log (Memory events) on the web page the display will show the user/area/output/keypad/zone numbers as well as the custom text name, eg User 1 would show as (U1)John Smith where (U1) is the extended information. If this option is turned on the extended information will not be displayed in the Activity log.

Serial over IP User Name

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

If option 3 is ON at P25E18E then any Serial over IP connection will need Authentication. The user name is programmed at this address. The user name is case sensitive. The user name must be entered first followed by the password.

Serial over IP Password

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

If option 3 is ON at P25E18E then any Serial over IP connection will need Authentication. The password is programmed at this address. The password is case sensitive. The user name must be entered first followed by the password.

Serial over IP User Timeout

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

If option 3 is ON at P25E18E then any Serial over IP connection will need Authentication. The Authentication will timeout when there is no activity from the remote end via the serial over IP port. To keep the connection alive the remote end (the automation system) will need to periodically send a signal before this timeout value expires, eg if the timeout is set to 30 seconds the remote end should send a signal every 20 seconds. When the remote end sends a signal to the panel this timer is reset back to it's full value. A simple CR (Carriage return) is all that's needed to keep the connection alive, although sending "STATUS" will request the latest panel status and keep the connection alive while providing useful information. When a session is opened with the panel the panel will respond with "Welcome", when the session is closed by the panel (eg this timer expires) the panel will send "Bye.".

SETTING REAL TIME CLOCK

REAL TIME CLOCK HOUR/MINUTE - P26E 1E (Value 0-2359)
REAL TIME CLOCK DAY of WEEK - P26E 2E (Value 1-7) [where 1 = Sunday, 2 = Monday, 3 = Tuesday, etc]
REAL TIME CLOCK DATE/MONTH/YEAR - P26E 3E (Value DDMMYY) (for example 090214 = 9th of February, 2014)

The Real Time Clock controls the Time-zones, the timing of automatic test calls and is used to Time & Date stamp the events in the Event Buffer. Ensure this is set correctly at the time of installation so that the all of the functions using the time will work correctly. The clock is programmed in 24 hour format (eg 00:00-23:59). The clock has a battery back-up that maintains the clock in the event of a power failure.
NOTE: If option 3 at P201E4E is turned on (panel clock synced to the internet time) the time and date settings cannot be altered.

DAYLIGHT SAVING (DLS) SETTINGS

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

NOTE: If you are in Daylight Saving Time when the alarm system is installed the panel should work this out at power up and automatically turn option 1 at the above address but you should check that it is correct at the time of installation. Failure to check this bit may mean the clock will fail to automatically adjust to the correct time when Daylight Saving Time Ends.

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

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

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

If Daylight Saving (DLS) is used, the actual start and stop details can be entered here and the clock will

automatically adjust for daylight saving.
NOTE: If the start and/or stop Sunday (P27E above) must be the last Sunday of the month (which can be Sunday number 4 or 5 depending on the year) then you must se the value to 5.

NOTE: With all output programming options we refer to outputs 1-32. Only outputs 1-4 are available as standard, outputs 5-32 require the connection of the optional 4 way output expander boards.

BULK COPY AN OUTPUT TO A RANGE OF OUTPUTS

Bulk COPY an Output to a range of Outputs - P30E

It is possible to set up a single Output and then copy the programmed data for that output to a range of outputs. For example if Output 2 was set up as a template and that data was required to be copied to Outputs 3 to 8 inclusive then once output 2 has been fully programmed by entering in P30E 2E followed by 3E then 8E the panel will copy Output 2's settings to all outputs from 3 to 8. This process can be repeated many times with different Outputs set up as a template and a different range of output addresses.

Program LCD KP "Output" Name

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

Each output can have a custom name that will be displayed when in Memory Mode. The FULL LCD KP "Output" name text is programmed at this location.

Program Output Volume when Disarmed

O/P 1 & 2 Volume when the alarm is disarmed - P33E 1-2E Value = 1-8

If Outputs 1 or 2 are programmed as siren outputs (P37E option 1 on) and have an 8 ohm speaker connected to an output the speaker can produce quieter sounds when Disarmed but full volume sounds when armed. The Volume of O/P 1 & 2 when the alarm is disarmed can be set to a value of 1-8, 1 being the quietest and 8 being the loudest. This is useful for things like 24 hour smoke alarms which can sound at a lower volume when disarmed but sound at full volume when armed. Also if a day zone triggers output 1 or 2 the output will produce a door bell sound and the volume of the door bell can be adjusted using this address.

OUTPUT OPTIONS "A"

OUTPUT OPTIONS "A" - P34E 01-32E
Option 1 - Invert Output
Option 2 - Flash Output
Option 3 - Single Pulse to Output
Option 4 - Lockout Output
Option 5 - DTMF Remote Control of Output
Option 6 - Keypad User can Operate Output
Option 7 - <CONTROL> button can Operate Output
Option 8 - Pulsed Chime Alarm (linked to pulse timer)

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

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

Option 3 **Single Pulse to Output** - This option produces a single pulse at the output when an alarm occurs (the pulse time is the value programmed at the output pulse timer P39E).

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

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

Option 6 **Keypad User can Operate Output** - If a DTMF Output control code is programmed into the panel (P175E12E), the same code can be entered at the panel keypad to allow local control of the Outputs

selected at this address.

Option 7 **<Control> button can Operate Output -** The <Control> button on the keypad can also be used to turn outputs on or off. For that to happen this option must be turned on for the output/s concerned. To turn an output on locally at the keypad the operator simply presses the <Control> button for 2 seconds at which time "CTRL" will be displayed on the Icon LCD or the word "Output Control" will be displayed on the FULL LCD to indicate that the Control mode is active. If any controllable outputs are currently on they will be indicated at the keypad. The operator can now press a button relating to the output/s they wish to control eg pressing "01" will turn output 1 on or off, Pressing "32" will turn output 32 on or off, etc. When finished the operator then presses the <ENTER> button to cancel the Control mode and return to normal.

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

OUTPUT OPTIONS "B"

OUTPUT OPTIONS "B" - P35E 01-32E
Option 1 - Mains Fail to Output
Option 2 - Fuse Failure to Output
Option 3 - Battery Low to Output
Option 4 - Telephone Line Failure to Output
Option 5 - Supervisory Radio Failure to Output
Option 6 - Sensor-Watch Alarm to Output
Option 7 - System Tamper to Output
Option 8 - Receiver Fail to Output

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

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

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

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

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

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

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

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

OUTPUT OPTIONS "C"

OUTPUT OPTIONS "C" - P36E 01-32E
Option 1 - Walk-test Pulse to Output
Option 2 - Pulse Output every 5 seconds when Disarmed
Option 3 - Pulse Output on Kiss-off Following Arming
Option 4 - Pulse Output on Kiss-off Following a Zone Alarm
Option 5 - Output Disabled when P25E3E timer is running
Option 6 - Output indicates In-coming phone call
Option 7 - Play Doorbell tone on a Chime zone trigger
Option 8 - IP Fail (Timed)

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

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

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

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

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

Option 6 **Output Indicates In-coming phone call** - If this option is On it will cause the Output to pulse in time with an in-coming telephone call. It is designed to be used as a remote call (ring detect) indicator.

Option 7 **Play Doorbell tone on a Chime Zone trigger** - If this option is turned on and a Chime zone alarm is triggered on output 1 or 2 the panel will play a Doorbell tone to the output. If the option is turned off a Chime zone alarm will play a single tone to output 1 or 2. The volume setting at P33E applies to these tones when played to output 1 or 2.

Option 8 **IP Fail (Timed)** - If IP Monitoring is being used and the panel fails to report a signal or a poll it will enter a "Comm Failure" state and the output will turn on. The output MUST have a reset time programmed at P40E as it needs a reset time to allow the output to reset after being triggered.

OUTPUT OPTIONS "D"

OUTPUT OPTIONS "D" - P37E 01-32E

Option 1 - Siren Driver to Output (applies to O/P 1&2 only, requires an 8Ω speaker)
Option 2 - Output Chime Timer is in Minutes
Option 3 - Output "Silenced" for 10 seconds on key-press
Option 4 - Turn Output OFF during Two Way Voice Mode
Option 5 - Spare
Option 6 - Pulse output when exit delay to Output (P65E) is running
Option 7 - Spare
Option 8 - Output Monitored (applies to O/P 1&2 only)

Option 1 **Siren Driver to Output** - This option is used to assign a Modulated Siren tone to an Output. The option only applies to Outputs 1 and 2. For the modulated siren tone to work correctly, an 8Ω speaker must be connected to the output concerned. The siren tones will vary depending on the trigger. For example, if the trigger is a walk test pulse or wireless arm/disarm chirp the tone will be a single tone. If the trigger is a chime zone the tone will be a door bell chime. If the trigger is an alarm (normal or 24 hour) the tone will be a siren sound. The volume of the various tones can be adjusted at P33E. If this option is turned on for Outputs 1 and/or 2 it will also inhibit the Output during two way voice mode (see option 4 below).

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

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

Option 4 **Turn Output OFF during Two Way Voice Mode -** If the panel has a full duplex two way voice board fitted and the settings at P175E2E option 8 and P183E option 5 are set to allow full duplex mode, any outputs with this option turned on will be disabled while two way voice is operational. This is to ensure that local sirens do not interfere with the two way voice audio signal.

Option 6 **Pulse output when exit delay to Output (P65E) is running -** If the panel is set to arm on no activity (see P46E options 2 & 8) then once the zone activity timer (P4071E) has expired the Pre-alert arming indication will start. The pre-alert to output (P65E) will cause the output to turn on for 1 second and off for 5 seconds. Once the pre-alert has expired the output will indicate the exit delay has started. This would normally be a continuous output but if this option is turned ON the output will pulse at the pulse timer (P39E) rate. This enables the pre-alert and exit delay indications to be separately identified. If output 1 or 2 are used and the output is set to a siren driver (Option 1 ON) the volume settings (P33E) will apply to the pulses so that these indications can be at a lower volume than a full alarm.

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

OUTPUT ON DELAY TIME

OUTPUT ON DELAY TIME - P38E 01-32E (0-9999 Seconds, 0 = no delay)
The "On" delay allows the operation of the Output to be delayed by the time programmed at this location. If set to "0" there will be no on delay and the Output will operate the instant it is turned on.

OUTPUT PULSE TIME

OUTPUT PULSE TIME - P39E 01-32E (0-255 1/10th Seconds, eg 20 = 2 secs)
The Pulse time affects the time the output turns on when the pulse timer is used on the Output. The pulse time is in 1/10th second increments so that very quick timing can be achieved. Functions like radio key Arm/Disarm Chirps to an Output or a flashing output (P34E option 2) all use the pulse timer. If access tags are assigned with the chirp function (P46E4E) and the LED on an access reader is set to follow an output with the chirps assigned (P98E) then this timer must be set to a minimum value of 10 for the reader LED to display the chirps.

OUTPUT RESET TIME

OUTPUT RESET TIME - P40E 01-32E (0-65535 Seconds, 0 = latched output)
The Reset time affects the time the output turns on when an alarm is active. The range is 0-65535 seconds with a value of 0 making the output latch on until reset.

CHIME MODE TIME

CHIME MODE TIME - P41E 01-32E (0-9999 1/10th Seconds, eg 20 = 2 secs)
The Chime Mode time affects the time the output turns on when a Chime Zone is activated. The Chime time is in 1/10th second increments so that very quick timing can be achieved.

START OF "DTMF OUTPUT CONTROL" STATUS MESSAGES

START OF "DTMF OUTPUT CONTROL" STATUS MESSAGES - P42E 01-32E (0-99)
Reserved for future use.

UN-MAP OUTPUTS

UN-MAP OUTPUTS - P43E 01-32E
If you are using an Output for a special purpose and do not need the standard defaults assigned to that output you can remove all defaults at this location. For example if you are using output number 4 to open a door via a Radio Key and you don't want any alarms to be assigned to the output press P43E4E and ALL defaults will be removed. This removes all options assigned to the output and makes the reset time "0" for latched operation.

ASSIGNING A TIME-ZONE to an OUTPUT

ASSIGN A TIME-ZONE TO OUTPUTS - P44E 01-32E (O/P#) Value = Time-zone 01-32
Any of the 32 Time-zones can be assigned to outputs 1-32. If a time-zone is assigned to an output it will turn the output on when the T/Z starts and turn the output off when the T/Z ends. You should un-map the output at P43E first before assigning the T/Z to ensure that only the T/Z will control the state of the output. This function can also 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. *(NOTE: If a TZ has turned an Output ON the TZ will override any reset time programmed for the Output. 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.)

AREA OPTIONS "A"

AREA OPTIONS "A" - P45E 1-32E (1 = Area 1, 32 = Area 32)

Option 1 - <ARM> button Required Before Code to Arm
Option 2 - <STAY> button Required Before code to Arm Stay Mode
Option 3 - <CODE> Required to Arm
Option 4 - <CODE> Required to Bypass
Option 5 - Spare
Option 6 - Report Arm Signal at the end of the Exit Delay
Option 7 - Can Arm only if All Zones Sealed (Ready)
Option 8 - Can Arm Stay Mode only if All Zones Sealed (Ready)

Option 1 **<ARM> button Required Before Code to Arm** - This option determines if the <ARM> button must be pressed before a code is entered to Arm an Area. If a User has access to more than one Area and this option is turned on, the special keypad arming functions described on Page 98 will apply. This option does not apply to Prox/PIN readers or Stay mode keypads.

Option 2 **<STAY> button Required Before Code to Arm Stay Mode** - This option determines if the <STAY> button must be pressed before a code is entered to Arm Stay Mode. If a User has access to more than one Area and this option is turned on, the special keypad arming functions described on Page 98 will apply. This option does not apply to Prox/PIN readers or Stay mode keypads.

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

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

Option 5 **Spare**

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

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

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

AREA OPTIONS "B"

AREA OPTIONS "B" - P46E 1-32E (1 = Area 1, 32 = Area 32)

Option 1 - Use Near and Verified Alarm reporting for All zones in this Area (CID ONLY)
Option 2 - Area will Arm at the end of Time-Zone
Option 3 - Area will Disarm at the start of Time-Zone
Option 4 - Assign Chirps to Access tags
Option 5 - Spare
Option 6 - Spare
Option 7 - Cannot Arm if Zone Unsealed at end of Exit Delay
Option 8 - Arm on no Activity

Option 1 **Use Near and Verified Alarm reporting for All zones in this Area** - To reduce the possibility of false alarms the panel can require two alarms on different zones within a 45 minute period before a full alarm will be sent. If this option is turned on it applies to all zones assigned to that area. An alarm on a single zone will send a CID (Contact ID) Near Alarm report to the monitoring station. If no further alarms occur within 45 minutes (and the zone that activated is sealed) the near alarm timer is reset and a restore is

sent for the zone that activated. If the zone that activated is still unsealed when the 45 minute timer expires, a zone bypass for that zone will be sent and the zone will remain bypassed until the area is disarmed. Any new alarms after the timer has expired will send another Near Alarm report. If a second alarm on a different zone occurs within 45 minutes of the Near alarm, an Intrusion Verified alarm report will be sent. This format only applies to Contact ID and Pager reporting. Turning this option on will stop zone alarms from being reported in Domestic & Voice formats as there are no messages for near and confirmed alarms. You must turn this option off if using Domestic or Voice formats.

Option 2 **Area will Arm at the end of Time-Zone** - The panel is capable of automatically arming on a Time-Zone. If this option is turned on and a Time-Zone is selected at P68E, the Area will automatically arm when the Time-Zone ends. If the panel cannot arm because it is not “Ready”, a fail to arm report will be sent. Also if there is a zone activity time (P4071E) programmed the arming will be delayed by that time period. Every time a zone in the area is triggered it resets the zone activity timer and delays arming while there is activity detected. Once the zone activity timer expires the panel starts the Pre-alert warning (P4072E). Any zone activity during the Pre-alert time will reset the Pre-alert timer and start the activity timer again. If the Pre-alert timer expires the panel starts the normal exit delay. During the exit delay arming can only be stopped by entry of a valid user code.

Option 3 **Area will Disarm at the start of Time-Zone** - The panel is capable of automatically disarming on a Time-Zone. If this option is turned on and a Time-Zone is selected at P68E, the Area will automatically disarm when the Time-Zone starts.

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

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

Option 8 **Arm on no Activity** - If this option is turned ON the area will automatically arm at any time when there is no zone activity detected. For this option to work at any time the area must NOT have option 2 above turned on or a time zone (P68E) assigned. If there is a zone activity time (P4071E) programmed the arming will be delayed by that time period. Every time a zone in the area is triggered it resets the zone activity timer and delays arming while there is activity detected. Once the zone activity timer expires the panel starts the Pre-alert warning (P4072E). Any zone activity during the Pre-alert time will reset the Pre -alert timer and start the activity timer again. If the Pre-alert timer expires the panel starts the normal exit delay. During the exit delay arming can only be stopped by entry of a valid user code.

AREA ARM INDICATION to OUTPUT

AREA ARM INDICATION to OUTPUT - P47E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

AREA STAY ARM INDICATION to OUTPUT

AREA STAY ARM INDICATION to OUTPUT - P48E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

AREA DISARM INDICATION to OUTPUT

AREA DISARM INDICATION to OUTPUT - P49E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

For monitoring purposes a Disarm indication can be assigned to an Output. Each Area can have a separate disarm indication assigned to a different output if required. This function can also be used 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. *(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.)*

PENDANT ARM CHIRP to OUTPUT

PENDANT ARM CHIRP to OUTPUT - P50E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

PENDANT STAY MODE ARM CHIRP to OUTPUT

PENDANT STAY MODE ARM CHIRP to OUTPUT - P51E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

PENDANT DISARM CHIRP to OUTPUT

PENDANT DISARM CHIRP to OUTPUT - P52E 1-32E (1 = Area 1, 2 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

PENDANT STAY MODE DISARM CHIRP to OUTPUT

PENDANT STAY MODE DISARM CHIRP to OUTPUT - P53E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

ARM PULSE to OUTPUT

ARM PULSE to OUTPUT - P54E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

(P39E) sets the length of the pulse .

STAY MODE ARM PULSE to OUTPUT

STAY MODE ARM PULSE to OUTPUT - P55E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

DISARM PULSE to OUTPUT

DISARM PULSE to OUTPUT - P56E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

STAY MODE DISARM PULSE to OUTPUT

STAY MODE DISARM PULSE to OUTPUT - P57E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

ARMED EXIT DELAY BEEPS TO KEYPAD

ARMED EXIT DELAY BEEPS TO KEYPAD - P58E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32
When an Area is Armed it is useful to have the exit delay beeps occurring at the keypad to warn the User to exit the premises without delay. If the option is on at this address, that keypad will beep out the exit delay. The exit beeps occur at one second intervals until the last 5 seconds at which time they change to 1/2 second intervals to act as a warning that the delay is about to expire. Also if Arm on Time-zone or no activity is enabled the Pre-alert (P4072E) arming beeps will beep the keypad if this option is turned on.

STAY MODE EXIT DELAY BEEPS TO KEYPAD

STAY MODE EXIT DELAY BEEPS TO KEYPAD - P59E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

When an Area is Armed in Stay Mode it is useful to have the exit delay beeps occurring at the keypad to warn the User to exit the premises without delay. If the option is on at this address, that keypad will beep out the exit delay. This option may be turned off for Stay Mode to make the keypad silent when arming at night time. The exit beeps occur at one second intervals until the last 5 seconds at which time they change to 1/2 second intervals to act as a warning that the delay is about to expire. When arming Stay Mode the exit and entry delays can be cancelled by pressing the <ENTER> button following arming of Stay Mode. The next time Stay Mode is armed, if the <ENTER> button is not pressed, all programmed exit and entry delays will apply.

ARMED EXIT DELAY TIME

ARMED EXIT DELAY TIME - P60E 1-32E (1 = Area 1, 32 = Area 32) (Value 0-255 Seconds)

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

STAY MODE EXIT DELAY TIME

STAY MODE EXIT DELAY TIME - P61E 1-32E (1 = Area 1, 32 = Area 32) (Value 0-255 Seconds)

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

MONITORING ACCOUNT CODE NUMBER

MONITORING ACCOUNT CODE NUMBER - P62E 1-32E (1 = Area 1, 32 = Area 32) (Value 0000-FFFF)

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

LCD KEYPAD BUTTON	ACCOUNT CODE SPECIAL CHARACTERS
CONTROL & 0	DELETE
CONTROL & 2	"B"
CONTROL & 3	"C"
CONTROL & 4	"D"
CONTROL & 5	"E"
CONTROL & 6	"F"

DTMF REMOTE CONTROL CODE NUMBER

DTMF REMOTE CODE NUMBER - P63E 1-32E (1 = Area 1, 32 = Area 32) (Value 1-4 digit code 0-9999)

The panel can be configured to allow remote Arm/Disarm of each Area via a remote telephone. The codes programmed at this address are the DTMF code that must be used when performing this function. When dialling the panel and it has answered the call, after the audio prompt to enter your code enter in the 1-4 digit DTMF code followed by the # key and the current status will be given of the Area associated with the code entered. After that, if you press the "*" key on the telephone the status of the area will toggle eg if is was previously armed it will change to disarmed or vice versa. When finished you simply hang-up and 15 seconds later the panel will release the line.

START OF "DTMF ARM/DISARM" STATUS MESSAGES

START OF "DTMF ARM/DISARM" STATUS MESSAGES - P64E 1-32E (1 = Area 1, 32 = Area 32) (0-99)

Reserved for future use.

ARMED EXIT BEEPS to OUTPUT

ARMED EXIT BEEPS to OUTPUT - P65E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32
Sometimes it can be useful to have an exit delay indication on an audible device on the exit path. This option allows the exit delay during arming to be assigned to any of the 32 outputs. The Output would normally turn on and stay on during the whole exit delay however if Option 6 at P37E is turned on the output will pulse at the pulse timer rate (P39E) during the exit delay. Also if arming on a Time-zone or no activity is set, and the pre-alert timer is active, this option will cause the output to turn on for 1 second and off for 5 seconds to indicate that arming will happen if no zones are triggered. The pre-alert output signal has been engineered to be different to the exit delay signal so users can tell which timer is running. Outputs 1 & 2 have additional special functions when set to siren outputs (P37E option 1 ON). When output 1 or 2 are set to be a siren output, with an 8ohm speaker attached, they will sound a 1khz tone during the pre-alert timer period (on for 1 second, off for 5 seconds) and pulse the 1khz tone at the pulse timer rate during exit delay. These two audible indications are controlled by the volume setting (P33E) so the sound can be set to a comfortable level. If an alarm occurs using the same output the siren tone will be at full volume. Finally to further differentiate between the pre-alert and exit delay indications the door bell chime can be programmed at P36E

option 7 and that will play during the pre-alert time (once again with the volume settings applied) changing to the pulsed 1khz tone for the exit delay.

STAY MODE ARM EXIT BEEPS to OUTPUT

STAY MODE ARM EXIT BEEPS to OUTPUT - P66E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

Sometimes it can be useful to extend the exit beeps, that occur at a keypad, to be present on an audible device on the exit path. This option allows the exit beeps during the arming of stay mode to be assigned to any of the 32 outputs. The Pulse time (P39E) sets the length of each beep.

AREA DELINQUENCY DELAY

AREA DELINQUENCY DELAY - P67E 1-32E (1 = Area 1, 32 = Area 32) (Value 0-99 Days)

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

AUTOMATIC ARM/DISARM TIMEZONE

AUTOMATIC ARM/DISARM TIMEZONE - P68E 1-32E (1 = Area 1, 32 = Area 32)
Value = 01-32 for Time-Zone 1-32

Option 01 = Time-Zone 1 - Option 32 = Time-Zone 32

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

Program LCD KP "Area" Name

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

Each Area can have a custom name that will be displayed when in Memory Mode. The FULL LCD KP "Area" name text is programmed at this location.

BULK COPY AN AREA TO A RANGE OF AREAS

Bulk COPY an Area to a range of Areas - P70E

It is possible to set up a single Area and then copy the programmed data for that area to a range of areas. For example if Area 5 was set up as a template and that data was required to be copied to Areas 6 to 12 inclusive then once area 5 has been fully programmed by entering in P70E 5E followed by 6E then 12E the panel will copy Area 5's settings to all areas from 6 to 12. This process can be repeated many times with different Areas set up as a template and a different range of area addresses.

ZONE ACTIVITY TIMER

Zone Activity Timer - P4071E 1-32E (Value 0-255 minutes) - If arm at the end of a time zone or arm on no activity (P46E option 8) is turned on the area will begin arming. If this address is set to 0 the area will being arming when the time zone ends or immediately if the time zone function is not assigned. If a value from 1-255 is set the area will start the programmed time before it will begin arming. Any zone activity during this time will reset the time back to it's full value. For the activity timer to expire there must be no zone activity. While there is activity the panel will hold off arming.

ARMING PRE-ALERT TIMER

Arming Pre-alert Timer - P4072E 1-32E (Value 0-255 seconds) - If arm at the end of a time zone or arm on no activity (P46E option 8) is turned on the area will begin arming once the activity timer (P4071E) has expired. If this address is set to 0 the area will being arming as soon as the activity timer expires. If a value from 1-255 is set the area will start the programmed time before it will begin arming. If exit delay to outputs (P65E) is turned on the output

will give a pre-alert warning that the area is going to arm. If exit beeps to keypads (P58E) is programmed the keypad will beep when the pre-alert timer is active. Any zone activity during this time will reset the pre-alert timer and start the activity timer again. When there has been no zone activity and the pre-alert timer expires the area will begin the normal exit delay period. During the exit delay arming can only be stopped by entry of a valid user code.

KEYPAD AREA ASSIGNMENT

KEYPAD AREA ASSIGNMENT - P71E 1-32E Value = 01-32 for Areas 1-32

Option 01 **Area "1"** - This option assigns Area 1 to keypads. If a keypad is assigned to only Area 1 it can only Arm or Disarm that area and will only display zones and area related events for Area 1.

Option 32 **Area "32"** - This option assigns Area 32 to keypads. If a keypad is assigned to only Area 32 it can only Arm or Disarm that area and will only display zones and area related events for Area 32.

KEYPAD BUTTON OPTIONS

KEYPAD BUTTON OPTIONS - P72E 1-32E

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

Option 1 **<CHIME> button Enabled** - This option enables the <CHIME> button. Chime alarms to the keypad buzzer and outputs are disabled when "Chime" is off. If a zone is programmed as a Chime Zone, it can beep the buzzer on a keypad and/or turn on an output. A typical use of "Chime" Mode is as a door minder in a shop. Sometimes it may be desirable to disable Chime mode without the need to reprogram the panel. This can be achieved by allowing Chime Mode to be disabled with the <CHIME> button on a keypad. If you press the <CHIME> button on a keypad for 2 seconds (and this option is turned on for that keypad) the display will show "NOCH" on the ICON LCD or "Chime Mode OFF" on the FULL LCD keypad. This means that the buzzer will now not sound at the keypad concerned and any Chime Mode Outputs will not activate. Pressing the <CHIME> button again for 2 seconds will toggle chime mode back to on again.

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

Option 3 **Code or Tag can ARM only at this keypad -** If this option is turned on the user code or access tag can full arm the alarm from the keypad. If there is a second keypad connected to the system that keypad can have this option turned off and option 4 turned on so that the user can stay arm from the other keypad and fully arm from this keypad using the same code or access tag. For this feature to work the user must have options 1, 2, 3 & 4 assigned at P4E.

Option 4 **Code or Tag can STAY ARM only at this keypad -** If this option is turned on the user code or access tag can arm Stay Mode from the keypad. If there is a second keypad connected to the system that keypad can have this option turned off and option 3 turned on so that the user can perform a full arm from the other keypad and Stay arm from this keypad using the same code or access tag. For this feature to work the user must have options 1, 2, 3 & 4 assigned at P4E.

Option 5 **<CONTROL> + <CHIME> Panic Alarm Enabled** - This option enables a Panic Alarm to be created when the <CHIME> + <CONTROL> buttons are pressed simultaneously. ***NOTE:*** *If a keypad Panic alarm is generated it will create a separate Panic Alarm for every area assigned to the keypad at Address P71E. To clear the alarm fully the Panic alarm must be cleared for all areas so the code used to reset the alarm must be assigned to the same areas (P3E) as the keypad (P71E).*

Option 6 **<A> + <B> Fire Alarm Enabled** - This option enables a Fire Alarm to be created when the <A> + <B>

buttons are pressed simultaneously. ***NOTE:*** *If a keypad Fire alarm is generated it will create a separate Fire Alarm for every area assigned to the keypad at Address P71E. To clear the alarm fully the Fire alarm must be cleared for all areas so the code used to reset the alarm must be assigned to the same areas (P3E) as the keypad (P71E).*

Option 7 **<B> + <CHIME> Medical Alarm Enabled** - This option enables a Medical Alarm to be created when the <B> + <CHIME> buttons are pressed simultaneously. ***NOTE:*** *If a keypad Medical alarm is generated it will create a separate Medical Alarm for every area assigned to the keypad at Address P71E. To clear the alarm fully the Medical alarm must be cleared for all areas so the code used to reset the alarm must be assigned to the same areas (P3E) as the keypad (P71E).*

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

KEYPAD OPTIONS C

KEYPAD OPTIONS C - P5070E 1-32E

Option 1 - Enable Away Disarming at keypad
Option 2 - Enable Stay Disarming at keypad

Option 1 **Enable Away Disarming at keypad** - This option works in conjunction with option 3 at address P72E. Normally a user or access tag can arm and disarm at all keypads if programmed to do so however using option 3 at P72E the away arming can be disabled at any of the 32 keypads. At this address the disarming of away mode can be disabled. Between P72E option 3 and this program option an arm only and a disarm only keypad can be set up.

Option 2 **Enable Stay Disarming at keypad** - This option works in conjunction with option 4 at address P72E. Normally a user or access tag can Stay arm and disarm at all keypads if programmed to do so however using option 4 at P72E the stay arming can be disabled at any of the 32 keypads. At this address the disarming of stay mode can be disabled. Between P72E option 4 and this program option a stay arm only and a stay disarm only keypad can be set up.

KEYPAD SYSTEM BEEPS & LED OPTIONS

KEYPAD SYSTEM BEEPS & LED OPTIONS - P73E 1-32E

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

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

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

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

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

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

keypad.

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

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

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

KEYPAD <ARM> BUTTON AREA ASSIGNMENT

KEYPAD <ARM> BUTTON AREA ASSIGNMENT - P74E 1-32E Value = 01-32 for Areas 1-32

Option 01 **Area "1"** - This option assigns the keypad <ARM> button to Area 1. If a keypad <ARM> button is assigned to only Area 1 it can only Arm or Disarm that area.

Option 32 **Area "32"** - This option assigns the keypad <ARM> button to Area 32. If a keypad <ARM> button is assigned to only Area 32 it can only Arm or Disarm that area.

KEYPAD <ARM> BUTTON AREA OPTIONS

KEYPAD <ARM> BUTTON AREA OPTIONS - P75E 1-32E

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

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

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

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

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

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

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

option (P4E Option 6) used to Disarm the Alarm will cause a Disarm report to be sent via the dialler.

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

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

KEYPAD <STAY> BUTTON AREA ASSIGNMENT

KEYPAD <STAY> BUTTON AREA ASSIGNMENT - P76E 1-32E Value = 01-32 for Areas 1-32

Option 01 **Area "1"** - This option assigns the keypad <STAY> button to Area 1. If a keypad <STAT> button is assigned to only Area 1 it can only Arm or Disarm that area.

Option 32 **Area "32"** - This option assigns the keypad <STAY> button to Area 32. If a keypad <STAY> button is assigned to only Area 32 it can only Arm or Disarm that area.

KEYPAD <STAY> BUTTON AREA OPTIONS

KEYPAD <STAY> BUTTON AREA OPTIONS - P77E 1-32E

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

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

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

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

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

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

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

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

Option 8 **<STAY> button can Disarm Stay Mode During Exit Delay** - This option allows single button Disarming of Stay Mode using the <STAY> button provided the Stay Mode exit delay is active. If the Stay Mode exit delay has expired the <STAY> button cannot be used to disarm Stay Mode. For single

button disarm operation to work options 2 & 3 must be off at location P45E

KEYPAD <A> BUTTON AREA ASSIGNMENT

KEYPAD <A> BUTTON AREA ASSIGNMENT - P78E 1-32E Value = 01-32 for Areas 1-32

Option 01 **Area "1"** - This option assigns the keypad <A> button to Area 1. If a keypad <A> button is assigned to only Area 1 it can only Arm or Disarm that area.

Option 32 **Area "32"** - This option assigns the keypad <A> button to Area 32. If a keypad <A> button is assigned to only Area 32 it can only Arm or Disarm that area.

KEYPAD <A> BUTTON AREA OPTIONS

KEYPAD <A> BUTTON AREA OPTIONS - P79E 1-32E

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

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

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

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

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

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

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

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

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

KEYPAD <B> BUTTON AREA ASSIGNMENT

KEYPAD <B> BUTTON AREA ASSIGNMENT - P80E 1-32E Value = 01-32 for Areas 1-32

Option 01 **Area "1"** - This option assigns the keypad <B> button to Area 1. If a keypad <B> button is assigned to only Area 1 it can only Arm or Disarm that area.

Option 32 **Area "32"** - This option assigns the keypad <B> button to Area 32. If a keypad <B> button is

assigned to only Area 32 it can only Arm or Disarm that area.

KEYPAD <B> BUTTON AREA OPTIONS

KEYPAD <B> BUTTON AREA OPTIONS - P81E 1-32E

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

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

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

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

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

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

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

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

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

KEYPAD to OUTPUT MASK

KEYPAD to OUTPUT MASK - P82E 1-32E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32
A Keypad can be assigned to an Output or multiple Outputs. If a Keypad is not assigned to an Output a User cannot turn that Output On or Off from the Keypad. This feature is useful when using the access control features of the panel, eg a User may be allowed to operate more than one Output with their code but they will be limited to just the Output assigned to the Keypad they are using.

<CONTROL> BUTTON to OUTPUT MASK

<CONTROL> BUTTON to OUTPUT MASK - P83E 1-32E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

The <CONTROL> button at a Keypad can be assigned to an Output or multiple Outputs. If the <CONTROL> button is not assigned to an Output a User cannot access Local Control Mode (by pressing the <CONTROL> button) and turn that Output On or Off from the Keypad. This feature is useful if Outputs are being used to control devices such

as lights, etc and you wish to be able to turn them On or Off from a keypad. By limiting the access to Outputs via the <CONTROL> button you can avoid conflict with alarm outputs (eg the User can be denied access to outputs that are being used for alarm functions).

KEYPAD PANIC ALARM to OUTPUT

KEYPAD PANIC ALARM (<CONTROL> & <CHIME>) to OUTPUT - P84E 1-32E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

KEYPAD FIRE ALARM to OUTPUT

KEYPAD FIRE ALARM (<A> & <B>) to OUTPUT - P85E 1-32E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32
A Keypad generated Fire Alarm (pressing the <A> & <B> together) can be assigned to an Output or multiple Outputs. This can be used to operate an audible or visual alarm connected to the Output.

KEYPAD MEDICAL ALARM to OUTPUT

KEYPAD MEDICAL ALARM (<B> & <CHIME>) to OUTPUT - P86E 1-32E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

KEYPAD DURESS ALARM to OUTPUT

KEYPAD DURESS ALARM to OUTPUT - P87E 1-32E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

KEYPAD TAMPER SWITCH ALARM to OUTPUT

KEYPAD TAMPER SWITCH ALARM to OUTPUT - P88E 1-32E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

KEYPAD WRONG CODE ALARM to OUTPUT

KEYPAD WRONG CODE ALARM to OUTPUT - P89E 1-32E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

If someone is attempting disarm the alarm by trying various code combinations and they enter in 4 wrong codes the panel will go into a “Wrong Code” tamper alarm. The Alarm can be assigned to an Output or multiple Outputs. This can be used to operate an audible or visual alarm connected to the Output. A correct code entry will reset the tamper alarm.

MANUAL PANIC ALARM BEEPS TO KEYPAD

MANUAL PANIC ALARM BEEPS TO KEYPAD - P90E 1-32E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

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

MANUAL FIRE ALARM BEEPS TO KEYPAD

MANUAL FIRE ALARM BEEPS TO KEYPAD - P91E 1-32E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

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

MANUAL MEDICAL ALARM BEEPS TO KEYPAD

MANUAL MEDICAL ALARM BEEPS TO KEYPAD - P92E 1-32E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

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

WRONG CODE or KEYPAD TAMPER BEEPS TO KEYPAD

WRONG CODE or KEYPAD TAMPER SWITCH ALARM BEEPS TO KEYPAD - P93E 1-32E
Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

If someone enters in an incorrect code more than 4 times or a Keypad Tamper Switch Alarm is generated, the alarm can be silent or it can operate the buzzer in the keypad. The selected keypad, e.g. P93E1E for keypad number 1 is the one at which the alarm has occurred and the options 01-32 are the selected keypads that will beep in alarm.

CHIME ALARM KEYPAD BEEP TIME

CHIME ALARM KEYPAD BEEP TIME - P94E 1-32E (Value = 0-255 1/10th Second)

When a Chime Zone is activated it can operate an Output and/or beep the keypad buzzer. There is a separate Chime timer for each of the 32 keypads. If the value is made “0” for a keypad the Chime Zone will not beep the keypad buzzer. The Keypad Chime Timer can be set to a value from 1-255. The units are in 1/10th second increments. This means that a value of 10 will beep the keypad buzzer for 1 second.

LCD KEYPAD BACK-LIGHT SETTINGS

LCD KEYPAD BACK-LIGHT SETTING - P95E1-32E Value **=** 0-100 = LCD B/L value 0-100%

The LCD and keypad backlight levels can be independently set for every keypad. A value of 0 means no backlight where a value of 100 is maximum backlight brightness.

FULL LCD KEYPAD DISPLAY OPTIONS

FULL LCD Keypad Display Options - P96E 1-32E Value = 1-8

Option 1 = 2 x 20 Display Mode or AAP Logo
Option 2 = Spare
Option 3 = Show LCD System Idle or Keypad Name
Option 4 = Display Armed Areas as numbers
Option 5 = Spare
Option 6 = Spare
Option 7 = Double badge to ARM keypad
Option 8 = Control button operates assigned outputs directly

Option 1 **2 x 20 Display Mode or AAP Logo** - If this option is turned On the FULL LCD keypad will show the AAP Logo plus the current time. If the option is turned Off the display will show the standard 2 lines x 20 character display that includes the Idle or keypad name (see option 3) plus the time and date.

Option 3 **Show LCD System Idle or Keypad Name** - If this option is Off the FULL LCD display will show the System Idle Name (P25E14E). If it is ON the FULL LCD will display the Keypad Name. To display the keypad name option 1 must be OFF.

Option 4 **Display Armed Areas as numbers** - If this option is On the FULL LCD keypad will show all Armed Areas as an Area number. This makes checking to see if your Area is armed or disarmed

very quick when there are many Areas associated with a keypad because up to 7 Area numbers can be displayed per line. If the option is turned Off the Armed Areas will be displayed with the full Area name. This is useful if there are only a couple of Areas associated with a keypad.

Option 7 **Double Badge to ARM Keypad -** If this option is turned on and an access card/tag with Arm/ Disarm capabilities is used at this reader/keypad, the access card/tag will always disarm the associated area from the arm state but when disarmed the first presentation of the card/tag will start a 10 second timer which will allow the same card/tag to be presented a second time within 10 seconds to arm the area.

Option 8 **Control button operates output directly -** If this option is turned on for the associated keypad then pressing the CONTROL button for 1 second will turn on all outputs assigned at addresses P34E option 7 and P83E. If it is turned off pressing the CONTROL button for 1 second will take the user to the output control menu where individual output numbers can be entered to turn outputs on or off singularly.

BULK COPY A KEYPAD TO A RANGE OF KEYPADS

Bulk COPY a Keypad to a range of Keypads - P97E

It is possible to set up a single Keypad and then copy the programmed data for that keypad to a range of keypads. For example if Keypad 15 was set up as a template and that data was required to be copied to Keypads 16 to 20 inclusive then once keypad 15 has been fully programmed by entering in P97E 15E followed by 16E then 20E the panel will copy Keypad 15's settings to all keypads from 16 to 20. This process can be repeated many times with different Keypads set up as a template and a different range of keypad addresses.

PROXIMITY READER LED to OUTPUT MAPPING

PROXIMITY READER LED to OUTPUT MAPPING - P98E 1-32E Value = 01-32 for Outputs 1-32

Option 01 = Proximity Reader LED follows Output 1 - Option 32 = Proximity Reader LED follows Output 32

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

PROGRAM FULL LCD KP "KEYPAD" NAME

Program FULL LCD KP "Area" Name Text - P100E 1-32E

Each Keypad can have a custom name that will be displayed when in Memory Mode. The FULL LCD KP "Keypad" name text is programmed at this location. If option 3 is Off at P96E then this name will be the idle display name on the keypad.

BULK COPY A ZONE TO A RANGE OF ZONES

Bulk COPY a Zone to a range of Zones - P118E

It is possible to set up a single Zone and then copy the programmed data for that zone to a range of zones. For example if Zone 20 was set up as a template and that data was required to be copied to Zones 21 to 30 inclusive then once zone 20 has been fully programmed by entering in P118E 20E followed by 21E then 30E the panel will copy Zone 20's settings to all zones from 21 to 30. This process can be repeated many times with different Zones set up as a template and a different range of zone addresses.

GLOBAL ZONE EOL (End-of-Line) OPTIONS

There are 8 hardwired zone inputs on the panel with up to 64 zones in total via the input expanders. Each of these inputs can have different EOL (End-of-Line) configurations if desired. To do that the value at P119E 1E must be set to 0 so that address P125E can set individual values for each zone from type 0-13. If the value at P119E 1E is set to 1-16 this sets all zones to be that value and the value at P125E cannot be changed. See chart on page 11 for the resistor combinations and colour codes.

GLOBAL ZONE EOL (End-of-Line) OPTIONS - P119E 1E Value 1-16
(If the Value is set to 0 the individual options can be selected at program location P125E)

Option 1 - 1k
Option 2 - 1k5
Option 3 - 2k2
Option 4 - 3k3
Option 5 - 3k9
Option 6 - 4k7
Option 7 - 5k6
Option 8 - 6k8
Option 9 - 10k
Option 10 - 12k
Option 11 - 22k
Option 12 - 2k2 in series with 4k7 (Single Zone with tamper)
Option 13 - 3k3 in series with 6k8 (Single Zone with tamper)
Option 14 - 2k2 in series with 4k7 & 8k2 (Zone doubling with tamper)
Option 15 - 4k7 in series with 8k2 (Zone doubling no tamper)
Option 16 - 4k7 in parallel with 8k2 (Zone doubling no tamper)

ZONE KEYSWITCH PROGRAMMING

KEY-SWITCH ACCESS & OPERATIONAL OPTIONS - P120E 1-64E A zone can become a key-switch.

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

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

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

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

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

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

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

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

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

ZONE AREA ASSIGNMENT

ZONE AREA ASSIGNMENT - P121E 1-64E Value = 01-32 for Areas 1-32

Option 01 = Zone is assigned to Area 1 - Option 32 = Zone is assigned to Area 32

Option 01 **Area "1"** - This option assigns the Zone to Area 1. If a Zone is assigned only to Area 1 it will activate if Area 1 is armed. If the zone is in more than one Area and option 6 is OFF at address P123E then the

zone will activate when any of the assigned areas are armed. If option 6 is ON at address P123E ("Zones are shared between Areas") then it will only activate when all assigned areas are armed.

Option 32 **Area "32"** - This option assigns the Zone to Area 32. If a Zone is assigned only to Area 32 it will activate if Area 32 is armed. If the zone is in more than one Area and option 6 is OFF at address P123E then the zone will activate when any of the assigned areas are armed. If option 6 is ON at address P123E ("Zones are shared between Areas") then it will only activate when all assigned areas are armed.

ZONE OPTIONS A

ZONE OPTIONS A - P122E 1-64E Value 1-8

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

Option 1 **Zone is Active** - If this option is on the zone is Active. If it is turned off the zone will not be monitored by the panel. The panel can provide up to 64 zones but is configured by default as an 8 zone panel with this option turned off for zones 9-64.

Option 2 **Zone is N/O** - This option only applies if the zone input is set to type 14 or 15 (zone doubling) at location P125E. When configured as type 14 there are three resistors wired in series on the input, a 2k2 tamper resistor, a 4k7 low zone resistor and an 8k2 high zone resistor. When configured as type 15 there are two resistors wired in series on the input, a 4k7 low zone resistor and an 8k2 high zone resistor. At this point, the zone can be set as having a N/C (Normally closed) alarm contact where the EOL resistor is shorted out in the sealed state or it can be set as a N/O (Normally open) alarm contact where the EOL resistor is in circuit in the sealed state. If this option is turned on it assumes that the alarm contact is N/O. If zone doubling is not being used (eg P125E for the zone is not set to type 14 or 15) then this function has no effect.

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

Option 4 **Keypad Zone** - If this option is on the Zone will follow the Input at the corresponding Keypad or Weigand Interface. For example if the Keypad or Wiegand Interface is set to Keypad address # 19 the input will become zone 19.

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

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

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

Option 8 **Zone can be Auto-Bypassed** - If this option is on the zone will be Auto-Bypassed if unsealed at the expiry of the exit delay. If the zone seals after that time it will be re-instated automatically and can then cause an alarm. On disarming of the alarm any auto-Bypasses are removed.

ZONE OPTIONS B

ZONE OPTIONS B - P123E 1-64E Value 1-8

Option 1 - Zone is a Handover Zone
Option 2 - Zone is a Two Trigger Zone
Option 3 - Zone is a 24 Hour Zone
Option 4 - Zone is an Auto-reset Zone
Option 5 - Zone is a 24 Hour Fire Zone
Option 6 - Zone is shared (Off = not shared)
Option 7 - Zone is a Chime Zone
Option 8 - Zone is a Permanent Chime Zone

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

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

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

Option 4 **Zone is an Auto-reset Zone** - If this option is on the zone will activate only when the associated area is armed. If the Auto-reset zone also has an entry delay programmed (P144E), this delay will apply. If the Auto-reset zone is activated during the armed state but then resets before the entry delay expires no alarm will be generated. Once an alarm has been generated with an Auto-reset zone the alarm will be removed automatically once the input reseals (Auto-reset). If options 3 & 4 are turned on together the zone will work as a 24 Hour Auto-Reset zone.

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

Option 6 **Zone is Shared** - If this option is On the zone is “Shared”. That means if the zone is in multiple Areas it will not go into alarm unless all assigned areas are armed. If the zone does go into alarm it will report to the lowest assigned area number (only one alarm will be sent). If the option is Off the zone is no longer shared. That means the zone will go into alarm if any of the assigned areas are armed. It also means that it will send an alarm for every area that is armed.

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

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

ZONE OPTIONS C

ZONE OPTIONS C - P124E 1-64E Value 1-8

Option 1 - Can Arm if Zone is not Ready
Option 2 - Will Send Multiple Reports to Dialler
Option 3 - Zone is Monitored for Inactivity
Option 4 - Zone is on Soak Test
Option 5 - Report using the highest assigned Area
Option 6 - Zone will Not Report 24 hour Alarms via Dialler
Option 7 - Pulse Output on Kiss-off Following a Zone Alarm
Option 8 - Exit Terminator Zone

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

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

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

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

Option 5 **Report using the highest assigned Area -** If a zone is assigned to more than one area and it is programmed to report activity via the dialler this option selects whether the panel will use the lowest or the highest assigned area for reporting. If a value of 0 is programmed at address P147E for the zone and this option is turned OFF the zone will report using the lowest assigned area. If P147E is 0 and this option is ON the zone will report using the highest assigned area.

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

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

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

ZONE OPTIONS D

ZONE OPTIONS D - P6133E 1-64E Value 1-8
Option 1 - Zone is Excluded from Activity monitoring
Option 2 - Zone will hold off Arming until Sealed
Option 3 - "Security Interlock" zone

Option 1 **Zone is Excluded from Activity monitoring** - If this option is turned on the zone cannot reset the auto-arming activity timer (P4071E). If it is turned off the zone will reset the activity timer and delay auto-arming if triggered.

Option 2 **Zone will hold off Arming until Sealed** - If this option is turned on the zone will hold off arming due to activity until the zone is sealed. This option can be used with a reed switch on a front door that when left open will stop auto-arming on no activity until the door is closed. If this open is turned off the zone

will retrigger the activity timer only when it unseals. If the zone remains unsealed the activity timer will not be reset and can expire.

Option 3 **"Security Interlock" Zone** - If this option is turned on the zone will be a "Security Interlock" designed to monitor a door leading to a room containing a safe or strong-room. It would normally only be programmed to one area at P121E and that area will be controlled by the "security Interlock" zone. If the "security Interlock" zone is unsealed the associated area will be armed. The area can only be disarmed when the "security Interlock" zone is sealed. The area would be used to control the electronic locking of the safe or strong-room door by using an output set to follow the disarm state (P49E) of the area. If the area is armed the electronic door will be locked, if disarmed it will be unlocked

ZONE EOL (End-of-Line) OPTIONS

There are 8 hardwired zone inputs on the panel plus up to 64 zones in total via the input expanders. Each of these inputs can have different EOL (End-of-Line) configurations if desired. The input can be a short circuit wire loop (Type 0), one of 11 different single resistor values (Types 1-11) or can provide up to 64 zones with tamper (Types 12,13). Because of the zone input expanders the zone doubling options (Type 14, 15 & 16) are a global option that when set affect all zones. See chart on page 11 for the resistor combinations and colour codes. **NOTE: If using vibration settings 1-8 (see P126E below) then this location can ONLY be set to type 3.**

ZONE EOL (End-of-Line) OPTIONS - P125E 1-64E Value 0-11

Option 0 - Short Circuit Loop
Option 1 - 1k
Option 2 - 1k5
Option 3 - 2k2
Option 4 - 3k3
Option 5 - 3k9
Option 6 - 4k7
Option 7 - 5k6
Option 8 - 6k8
Option 9 - 10k
Option 10 - 12k
Option 11 - 22k
Option 12 - 2k2 in series with 4k7 (Single zone with tamper)
Option 13 - 3k3 in series with 6k8 (Single zone with tamper)

ZONE RESPONSE TIME

There are 8 hardwired zone inputs on the panel plus up to 64 zones via the zone input expanders. The response time (how quickly the input responds to an input trigger) can be varied for each zone. The first 8 settings are very fast response times normally used when vibration sensors are connected to a zone input. ***Response Settings 1-8 (vibration) can only be applied to zones 1-8 and the zone EOL setting (P125E) must be set to type 3 (2k2)***. Zone doubling is not available when vibration settings are used.
The response settings 9-26 start at about 200 ms for setting 9 through to 1.05 sec for setting 26.

ZONE RESPONSE TIME - P126E 1-8E

Response Setting 1 - Highest Vibration setting
Response Setting 2 - Middle Vibration setting
Response Setting 3 - Middle Vibration setting
Response Setting 4 - Middle Vibration setting
Response Setting 5 - Middle Vibration setting
Response Setting 6 - Middle Vibration setting
Response Setting 7 - Middle Vibration setting
Response Setting 8 - Lowest Vibration setting

Response Setting 9 - 200 ms
Response Setting 10 - 250 ms
Response Setting 11 - 300 ms
Response Setting 12 - 350 ms
Response Setting 13 - 400 ms
Response Setting 14 - 450 ms
Response Setting 15 - 500 ms
Response Setting 16 - 550 ms
Response Setting 17 - 600 ms
Response Setting 18 - 650 ms
Response Setting 19 - 700 ms
Response Setting 20 - 750 ms
Response Setting 21 - 800 ms
Response Setting 22 - 850 ms
Response Setting 23 - 900 ms
Response Setting 24 - 950 ms
Response Setting 25 - 1000 ms
Response Setting 26 - 1050 ms

ZONE RESPONSE TIME - P126E 9-64E

Response Setting 9 - 200 ms
Response Setting 10 - 250 ms
Response Setting 11 - 300 ms
Response Setting 12 - 350 ms
Response Setting 13 - 400 ms
Response Setting 14 - 450 ms
Response Setting 15 - 500 ms
Response Setting 16 - 550 ms
Response Setting 18 - 650 ms
Response Setting 19 - 700 ms
Response Setting 20 - 750 ms
Response Setting 21 - 800 ms
Response Setting 22 - 850 ms
Response Setting 23 - 900 ms
Response Setting 24 - 950 ms
Response Setting 25 - 1000 ms

RADIO ZONE DETECTOR TYPE

Any of the 64 zones can be made radio zones. There are multiple types of radio detectors that can be used on the panel. It is important to set the correct radio type for the detector being used so that all of the special functions such as battery low signals, tamper alarms, reed switch open/close signals and supervision signals can all be monitored correctly.

RADIO ZONE DETECTOR TYPE - P127E 1-64E Value 1-35

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

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

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

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

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

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

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

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

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

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

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

Type 32 **Visonic Powercode (unsupervised) -** If a Visonic Powercode radio device is used on the panel

selecting Type 32 allows the panel to correctly recognize the alarm, tamper and battery low signal from the device. The supervisory signal sent by the device is ignored in this mode.

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

ARMED ZONE ALARMS to OUTPUT

ARMED ZONE ALARMS to OUTPUT - P128E 1-64E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

STAY MODE ZONE ALARMS to OUTPUT

STAY MODE ZONE ALARMS to OUTPUT - P129E 1-64E Value = 01-32 for Outputs 1-32
Option 01 = Output 1 - Option 32 = Output 32

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

24 HOUR ZONE ALARMS to OUTPUT

24 HOUR ZONE ALARMS to OUTPUT - P130E 1-64E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

If a zone is programmed as a 24 Hour type and it activates, the zone can trigger selected Outputs for local alarm signalling. If the zone is a standard 24 hour type (P123E option 3 on) the output will turn for the full reset time, if it is an Auto-reset type (P123E option 4 on) the output will either turn off when the reset time expires or if the input clears and if it is a Fire type (P123E option 5 on) the output will pulse at a rate equal to the pulse time for that output.

CHIME ZONE ALARMS to OUTPUT

CHIME ZONE ALARMS to OUTPUT - P131E 1-64E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

If a zone is programmed as a Chime zone (P123E option 7 or 8 on) and it activates, the zone can trigger selected Outputs for local alarm signalling. The output will operate for the Chime to Output time at location P41E. The zone must clear before the output can be activated again.

ZONE TAMPER ALARMS to OUTPUT

ZONE TAMPER ALARMS to OUTPUT - P132E 1-64E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32
If a hardwired zone is programmed to allow tamper monitoring (P125E types 12,13 & 14), or the zone is a radio detector with tamper, the zone tamper can trigger selected Outputs for local alarm signalling.

ARMED ZONE ALARM BEEPS TO KEYPAD

ARMED ZONE ALARM BEEPS TO KEYPAD - P134E 1-64E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

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

STAY MODE ZONE ALARM BEEPS TO KEYPAD

STAY MODE ZONE ALARM BEEPS TO KEYPAD - P135E 1-64E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

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

24 HOUR ZONE ALARM BEEPS TO KEYPAD

24 HOUR ZONE ALARM BEEPS TO KEYPAD - P136E 1-64E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

If a zone is programmed as a 24 Hour type and it activates, the zone can sound the buzzer at selected keypads for local alarm signalling. If the zone is a standard 24 hour type (P123E option 3 on) or Fire type (P123E option 5 on) the keypad buzzer will sound until reset by a User but if it is an Auto-reset type (P123E option 4 on) the keypad buzzer will reset when the input clears.

CHIME ZONE ALARM BEEPS TO KEYPAD

CHIME ZONE ALARM BEEPS TO KEYPAD - P137E 1-64E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

If a zone is programmed as a Chime zone and it activates, the zone can sound the buzzer at selected keypads for local alarm signalling. The duration of the Chime beep is programmed at location P94E. The Chime function can also be locally disabled at each keypad individually if not required (see P72E option 1 on Page 47 for details).

ZONE TAMPER ALARM BEEPS TO KEYPAD

ZONE TAMPER ALARM BEEPS TO KEYPAD - P139E 1-64E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

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

RADIO SUPERVISE FAIL BEEPS TO KEYPAD

RADIO SUPERVISE FAIL BEEPS TO KEYPAD - P140E 1-64E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

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

ZONE INACTIVITY ALARM BEEPS TO KEYPAD

ZONE INACTIVITY ALARM BEEPS TO KEYPAD - P141E 1-64E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

If the zone is programmed for inactivity monitoring (P124E option 3 on) and it is not operated within the time set at P163E a “Sensor-watch” alarm will be generated. A “Sensor-watch” failure from the detector can sound the buzzer at selected Keypads for local alarm signalling.

ARMED ZONE ENTRY DELAY BEEPS TO KEYPAD

ARMED ZONE ENTRY DELAY BEEPS TO KEYPAD - P142E 1-64E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

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

STAY MODE ENTRY DELAY BEEPS TO KEYPAD

STAY MODE ENTRY DELAY BEEPS TO KEYPAD - P143E 1-64E Value = 01-32 for Keypads 1-32

Option 01 = Keypad 1 - Option 32 = Keypad 32

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

ARMED ZONE ENTRY DELAY TIME

ARMED ZONE ENTRY DELAY TIME - P144E 1-64E (Value 0-9999 Seconds)

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

STAY MODE ZONE ENTRY DELAY TIME

STAY MODE ZONE ENTRY DELAY TIME - P145E 1-64E (Value 0-9999 Seconds)

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

ZONE RE-TRIGGER COUNT

ZONE RE-TRIGGER COUNT - P146E 1-64E (Value 0-15 Triggers)

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

Zone Reports using this Area

ZONE REPORTS USING THIS AREA - P147E 1-64E (Value 0-32 for areas 1-32)

When a zone is in multiple areas it can be forced to report to one area at this address. If this address is set to 0 option 5 at P124E will apply.

ZONE ALARM CONTACT ID REPORT CODE

ZONE ALARM CONTACT ID REPORT CODE - P157E 1-64E (3 digit event code)

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

ZONE NEAR ALARM CONTACT ID REPORT CODE

ZONE NEAR ALARM CONTACT ID REPORT CODE - P158E 1-64E (3 digit event code)

If the Near & Confirmed zone alarm reporting option was active the default report code for a "Near Alarm" is "138" when the zone activates for the first time. There should be no reason to change this code but if some special event code was to be used it can be changed at this location.

ZONE CONFIRMED ALARM CONTACT ID REPORT CODE

ZONE CONFIRMED ALARM CONTACT ID REPORT CODE - P159E 1-64E (3 digit event code)

If the Near & Confirmed zone alarm reporting option was active the default report code for a "Confirmed Alarm" is "139" when a second zone activates within 45 minutes of the near alarm. There should be no reason to change this code but if some special event code was to be used it can be changed at this location.

ZONE ALARM VOICE MESSAGE NUMBER

ZONE ALARM VOICE MESSAGE NUMBER - P160E 1-64E (Value 0-99)

If the reporting format is set to Voice (option 4 on at P182E), the panel will report using the canned voice messages (eg a zone one activation will report as "Zone 1 Alarm"). The number programmed at this location is reserved for future use but to ensure the canned messages are reported in Voice mode it MUST be set to at least a value of 1. If set to a value of 0 the canned messages will not be reported. If Option 1 at P46E is turned on (use near and confirmed alarm reporting) the panel will not send an alarm in this format.

ARMED ENTRY DELAY to OUTPUT

ARMED ENTRY DELAY to OUTPUT - P161E 1-64E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32
If the alarm is Armed and a delay zone triggers the entry delay it can also beep an Output to warn that the entry delay is counting down and the alarm should be turned off.

STAY MODE ENTRY DELAY to OUTPUT

STAY MODE ENTRY DELAY to OUTPUT - P162E 1-64E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

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

SENSOR-WATCH TIME

SENSOR-WATCH TIME - P163E 1-64E (Value 0-9999 Minutes)

If the zone is programmed as a “Sensor-Watch” zone (P124E option 3 on) and it is not operated within the time set at this location a “Sensor-watch” alarm will be generated. If a detector has this option turned on and it doesn’t operate when disarmed, this timer will start to count down for the zone/s concerned. The timer is stopped when the area assigned to the zone/s is armed and resumes with the saved value when disarmed again. The timer is reset back to the original value every time the zone operates while disarmed.

LEARN RADIO ZONE CODES

LEARN RADIO ZONE CODES - P164E 1-64E

A RADIO Zone must be enrolled into the panel before it can be used.

To learn a Radio Zone you must first have a compatible receiver connected to the panel keypad buss. With the receiver connected and the panel in program mode, entering P164E then the zone number you wish to enrol, eg 5E for zone 5, the keypad will start to beep to indicate that learn mode has been started and the LED on the receiver will flash. Now operate the detector you wish to learn into Zone 5 slot. Once the transmitted code has been received by the panel and saved, the keypad will stop beeping and the LED on the receiver will stop flashing.
When learning a new radio zone the panel checks all possible locations (including pendants) before saving the new code to ensure that the code has not already been loaded into another slot. If the code already exists, the keypad will indicate which slot the code is already installed at. A number from 1-64 indicates a zone slot and a number from 101-2000 indicates a user slot.

DELETE a RADIO ZONE CODE

DELETE a RADIO ZONE CODE - P165E 1-64E

If you wish to delete a single Radio Zone, pressing P165E then the Zone number while in Program Mode will delete the stored code against that Zone, eg P165E 5E will remove the code stored for Zone 5.

FIND a ZONE LOCATION

FIND a RADIO ZONE LOCATION - P166E ENTER

If you have a Radio detector loaded into the panel but are unsure which location (Zone #), pressing P166E then ENTER while in Program Mode will start “Find” Mode. The keypad will start to beep to indicate that “Find” mode has been started and the LED on the Receiver will flash. Now operate the Radio Detector you wish to find. If the Radio Detector is in memory the keypad will display the number (1-64 indicates a zone, and 101-2000 indicates a user). When a device is found the keypad will stop beeping and the LED on the Receiver will stop flashing.

ZONE NEAR ALARM to OUTPUT

ZONE NEAR ALARM to OUTPUT - P167E 1-64E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32

If zones are programmed for near and confirmed alarms (P46E option 1 on), it is also possible to get an indication of a Near Alarm from any of the 32 Outputs using this program location. A Near Alarm is the first alarm during an armed

period.

ZONE CONFIRMED ALARM to OUTPUTS

ZONE COMFIRMED ALARM to OUTPUT - P168E 1-64E Value = 01-32 for Outputs 1-32

Option 01 = Output 1 - Option 32 = Output 32
If zones are programmed for near and confirmed alarms (P46E option 1 on), it is also possible to get an indication of a Confirmed Alarm from any of the 32 Outputs using this program location. A Confirmed Alarm is the second alarm from a different zone to the one that caused the Near Alarm and must happen within 45 minutes of the near alarm.

PROGRAM FULL LCD KP "ZONE" NAME

Program FULL LCD KP "Zone" Name Text - P169E 1-64E

Each Keypad can have a custom name that will be displayed when in Idle and Memory Mode. The FULL LCD KP "Zone" name text is programmed at this location.

ACCESS CONTROL DOOR MONITOR LINKED to OUTPUT

Access Control Door Monitor Linked to OUTPUT - P6174E 1-64E Value = 01-32 for Outputs 1-32

A zone can be linked to an access door output at this address. When linked the zone can be used as a door monitor for "Door Forced" or "Door left open too long" monitoring or it can force the door open (see addresses P6175E & P6176E for more details). If the value at this address is set to 0 the zone acts as a normal zone with no access control features.

ACCESS CONTROL OPTIONS

Access Control Options - P6175E 1-64E

Any zone can be used to monitor an access control door or control that door as per the options below:
Option 0 = Disabled, no access monitor options
Option 1 = Access Door Monitoring
Option 2 = Access Door REX button
Option 3 = Egress button - hold door open
Option 4 = Global Egress - hold all Egress doors open
Option 5 = Global Fire Egress - hold all access doors open

Option 0 **Disabled, no access monitor options** - The zone will work as a normal zone.

Option 1 **Access Door Monitoring** - If option 1 is selected the zone will be a door monitor for the output programmed at P6174E. If the door is opened but the associated output is off a "Door Forced" alarm will be created. If the output is on and the door opened but the door is still open when the output resets a "Door left open too long" alarm will be created. If the panel is set up to report to a monitoring station these alarms will also be reported. When the input seals the alarms will reset automatically.

Option 2 **Access Door REX Button -** It option 2 is selected the zone will unlock the associated door (output) for the programmed reset time when the input is triggered.

Option 3 **Egress Button -** If option 3 is selected the zone the door (output) and override the programmed reset time. The output will remain on once triggered. There are two ways to reset this state. The first is the output will turn off as soon as the input is sealed again provided option 3 is turned on at program location P6176E. If option 3 at P6176E is off the output will latch on and must be reset by a valid user code. Only user codes with option 7 on at address P4E can reset an Egress input.

Option 4 **Global Fire Egress -** If turned ON it sets the input to be a Global Fire Egress Input. When the Global Fire Egress Input is triggered it will turn on all outputs associated with zones (P6174E) that are set to type 1-5 at address P6175E. The outputs will remain on once triggered until either the input resets or a code is entered. Whether the outputs auto-reset or latch on can be set at the new program location P6176E. If option 3 at P6176E is off the outputs will latch on and must be reset by a valid user code. Only user codes with option 7 on at address P4E can reset a Global Fire Egress input. If option 3 is on the outputs will reset as soon as the input seals.

Option 5 **Global Egress -** If turned ON it sets the input to be a Global Egress Input. When the Global Egress Input is triggered it will turn on all outputs associated with zones (P6164E) that are set to options 3, 4 or 5 at address P6175E. The outputs will remain on once triggered until either the input resets or a code is entered. Whether the outputs auto-reset or latch on can be set at the new program location P6176E. If

option 3 at P6176E is off the outputs will latch on and must be reset by a valid user code. Only user codes with option 7 on at address P4E can reset a Global Egress input. If option 3 is on the outputs will reset as soon as the input seals.

ACCESS CONTROL OPTIONS B

Access Control Options B - P6176E 1-64E

The behaviour of an access control zone can be modified with these options.
Option 1 = Report Access violations as the output # not zone #
Option 2 = Hide this zone on the web status page
Option 3 = Zone restore auto-resets Egress Outputs

Option 1 **Report Access violations as the output # not zone #** - When a zone is associated with an output at P6174E and the zone is set as an access Door Monitor (option 1 at P6175E) it will report door access violations to monitoring as the zone that triggered the event. If this option is turned on it will report the access violations as the programmed output number at P6174E.

Option 2 **Hide this zone on the web status page -** If this option is turned on the zone will not appear on the status page of the web interface.

Option 3 **Zone restore auto-resets Egress Outputs -** If option 3 is turned on and the zone is set as an Egress type (options 3, 4, & 5 at P6175E) then the output/s will stay on while the input is open but they will automatically turn off when the input seals. If option 3 is off the Egress output/s must be reset by a valid user code (option 7 on at P4E)

ACCESS "DOOR OPEN TOO LONG" BEEPS to KEYPADS

Access Door Open Too Long Beeps to Keypads - P6177E 1-64E Value = 01-32 for Keypads 1-32

If a zone set as an Access Door Monitor triggers a "Door Open Too Long" alarm state this option allows any keypad to annunciate that alarm. The alarm will auto-reset when the input seals.

ACCESS "DOOR FORCED" OPEN BEEP to KEYPADS

Access Door Forced Open Beeps to Keypads - P6178E 1-64E Value = 01-32 for Keypads 1-32

If a zone set as an Access Door Monitor triggers a "Door Forced" alarm state this option allows any keypad to annunciate that alarm. The alarm will auto-reset when the input seals.

ACCESS "DOOR OPEN TOO LONG" to OUTPUTS

Access Door Open Too Long to Outputs - P6179E 1-64E Value = 01-32 for Outputs 1-32

If a zone set as an Access Door Monitor triggers a "Door Open Too Long" alarm state this option allows any Output to indicate that alarm. The alarm will auto-reset when the input seals.

ACCESS "DOOR FORCED" OPEN to OUTPUTS

Access Door Forced Open to Outputs - P6179E 1-64E Value = 01-32 for Outputs 1-32

If a zone set as an Access Door Monitor triggers a "Door Forced" alarm state this option allows any Output to indicate that alarm. The alarm will auto-reset when the input seals.

Time Zones

HOLIDAYS

HOLIDAYS - P170E 1-32E (DDMMYY)

It is possible to pre-program up to 32 holidays. Holidays can override the time-zone function on the programmed day. For example, if an output was automatically controlled by a time-zone, the pre-programmed holidays can stop the output from turning on or off on a holiday. A holiday consists of a single day programmed by Date/Month/Year (DDMMYY). The holiday begins at the start of the day (00:00:00) and finishes immediately before midnight (23:59:59) on the programmed date. Holidays can be programmed in any order (although for simplicity it is recommended that they are programmed in chronological order) and the panel automatically removes them once the day ends. If you wish to manually remove a programmed holiday you must program in 000000 at the holiday location. If the holiday date you are attempting to enter is older than the current date the panel will not save the data eg if the current date

was 120214 (12th of February 2014) and you tried to enter in 100214 (10th of February 2014) the panel will not save the programmed holiday as the day has already elapsed.

TIME ZONE DAYS

TIMEZONE DAYS - P171E 1-32E

Option 1 - Sunday
Option 2 - Monday
Option 3 - Tuesday
Option 4 - Wednesday
Option 5 - Thursday
Option 6 - Friday
Option 7 - Saturday
Option 8 - Invert

The Time-zone days are the days that the time-zone will be active. You can select any combination of the days, eg days 2,3,4,5,6 for Monday to Friday or 1&7 for Saturday & Sunday, etc. The invert function selects all times outside those selected. There are 8 Time-zones that can be programmed.

TIME ZONE START TIME

TIMEZONE START TIME - P172E 1-32E (HHMM)

The Time-zone start time is when the time-zone begins. It would normally be set to the beginning of the day, eg if you were automatically arming and disarming an area with a time-zone and you wanted it to disarm when the time-zone started you would set the start time to about 0830. The start time is programmed in 24 hour format (eg 0000-2359).
If you are setting up the time-zone during the active period (eg if the time-zone goes from 0830-1700 and the current time is 1200) you will have to wait until the next minute expires before the panel will update the time-zone status. You can see if the time-zone is active at location P200E4E.

TIME ZONE END TIME

TIMEZONE END TIME - P173E 1-32E (HHMM)

The Time-zone end time is when the time-zone finishes. It would normally be set to the end of the day, eg if you were automatically arming and disarming an area with a time-zone and you wanted it to arm when the time-zone ended you would set the end time to about 1700. The Time-zone end is active at the end of the programmed minute eg if the time-zone end time was set to 1700, the actual time that the time-zone operates will be at 17:01. The end time is programmed in 24 hour format (eg 0000-2359)

TIME ZONE OPTIONS

TIMEZONE OPTIONS - P174E 1-32E

1 = Ignore Holidays
2 = Dormant Time Zone (see P1032E)

If option 1 is turned on for a Time-zone, that time-zone will not be disabled when a holiday occurs. Normally when a holiday occurs all Time-zones will be disabled but if this option is turned on the Time-zone will not be affected when a holiday is active.

If option 2 is turned ON it marks the Time-zone as dormant until woken by a user code or tag. An example is the front door of a building is set to automatically unlock at the start of a Time-zone and lock when it ends. If the Time-zone is set to a dormant type the door will not unlock until a valid user has accessed the building. Once the valid user has accessed the building the door will unlock and remain unlocked until the Time-zone ends. Valid users are associated with Dormant Time-zones at the new program location P1032E. A user assigned to a Time-zone at P1032E will start that Dormant Time-zone once the user accesses the building.

+++++Dialler+++++

DIALLER OPTIONS

DIALLER OPTIONS - P175E 1E
Option 1 - Dialler is Enabled
Option 2 - Fax Defeat
Option 3 - Disable Telephone Line Monitoring
Option 4 - Pulse Dialling (NOTE: For DTMF 4 & 5 must be OFF)

Option 5 - Reverse Pulse Dialling (NOTE: For DTMF 4 & 5 must be OFF)
Option 6 - Long DTMF Dialling Digits
Option 7 - Spare
Option 8 - Spare

Option 1 **Dialler is Enabled** - If this option is turned off the dialler will be disabled. The option must be on to allow the dialler to make calls.

Option 2 **Fax Defeat -** The panel can automatically answer an in-coming call in two ways. The first is to set the auto-answer ring count to a convenient number (P175E4E) and let the phone ring until this number is reached at which time the panel will answer the call. The second method is to use fax defeat which entails calling the panel and letting it ring no more than 3 times, hanging up, then ringing back within 45 seconds. The panel will now answer the call on the first ring. There is also a manual answer function described on page 36.

Option 3 **Disable Telephone line Monitoring -** If the panel is connected to a poor telephone line and the line failure alarm is appearing regularly, by turning this option on the panel will not do the line test.

Option 4 **Pulse Dial -** If this option is Off the panel will dial in DTMF format, if On then the panel will dial using Pulse Dialling format

Option 5 **Reverse Pulse Dial -** If this option is On, and option 4 is On, then the panel will dial using Reverse Pulse Dialling format (eg the number 9 = 1 pulse). If this option is Off and Option 4 is On, the panel will dial in normal Pulse format (eg the number 9 = 9 pulses).

Option 6 **Long DTMF Dialling Digits -** If this option is Off, the panel will dial using normal dialling (75ms on & 75ma off). If it is On, the panel will dial using the long tones (100ms on & 100ms off).

DIALLER OPTIONS 2

DIALLER OPTIONS 2 - P175E 2E
Option 1 - Step to next Number
Option 2 - Spare
Option 3 - Spare
Option 4 - Send Test Calls Only if Armed
Option 5 - Test Time Period is in days
Option 6 - Hold line open following Domestic/Voice report for DTMF control
Option 7 - Ring Timeout.
Option 8 - Answer After 1 ring for Listen-in Mode

Option 1 **Step to next Number** - If more than one telephone number is programmed, this option will force the dialler to step through each number after a call. If this option is off the dialler will make all calls to the first number before moving on to the next number.

Option 2 **Spare**

Option 3 **Spare**

Option 4 **Send Test Calls Only if Armed -** If this option is On the panel will only send a daily test call if it is Armed. This option assumes that the normal arm/disarm signals sent on a daily basis can serve as a test and that the connection only needs to be verified daily if the panel is left in the armed state for periods longer than 24 hours.

Option 5 **Test Time Period is in days** - If this option is turned off the test time period (P175E5E) will be set in hours. If this option is turned on the test time period will be in days.

Option 6 **Hold line open following Domestic/Voice report for DTMF control -** If this option is On the dialler will keep the telephone line open after being kissed-off following a Domestic or Voice alarm call so that the person at the phone can then use their DTMF codes to arm/disarm the system or turn on the optional microphone if required.

Option 7 **Ring Timeout -** If this option is turned OFF the Ring Timeout will be 3 seconds. If it is ON the Ring Timeout will be 6.5 seconds. The Ring Timeout is the time the panel waits for the next ring signal before deciding that ringing has stopped. The value of 3 seconds will work for most countries and means the panel will only wait 3 seconds before sending a voice alarm report. If set to 6.5 seconds the panel will wait for 6.5 seconds before sending the alarm message.

Option 8 **Answer After 1 ring for Listen-in Mode -** If this option is turned ON and the optional microphone board is fitted, the panel will answer an in-coming call after 1 ring and automatically enter listen-in mode.

AUTO-ANSWER RING COUNT

AUTO-ANSWER RING COUNT - P175E 3E (Value 0-99)

If the dialler is set to answer an in-coming call for remote control or upload/download the number of rings before answering the call can be set at this location. There is also a manual answer function described on page 98.

TEST CALL START TIME

TEST CALL START TIME - P175E 4E (Value 0000-2359)

If the dialler is set to send Automatic Test Calls, the start time for the first call is set at this location. This allows the test call to be linked to a quiet period where the line would not normally be used (eg 2300)

TEST CALL TIME PERIOD

TEST CALL TIME PERIOD - P175E 5E (Value 0-255 Hours)

When reporting in Contact ID format the panel can send regular test calls to the monitoring company to check the integrity of the panel and the line. The regularity of the test calls is set at this location. It would normally be set to a value of 24 so that a test call is sent one a day. The start time for the first test should also be set at location P175E4E.

KEYPAD LISTEN-IN OPTIONS

KEYPAD LISTEN-IN OPTIONS - P175E 6E

Option 1 - Listen-in Enabled when dialling only and in Disarmed State
Option 2 - Listen-in Enabled when dialling only and in Armed State
Option 3 - Listen-in Enabled when dialling only and in Monitor Mode
Option 4 - Listen-in Enabled through the entire call only in Disarmed state
Option 5 - Listen-in Enabled through the entire call only in Armed State
Option 6 - Listen-in Enabled through the entire call only in Monitor Mode
Option 7 - Listen-in Enabled when the panel answers a call
Option 8 - Listen-in on at All Times

The panel provides the facilities to use the buzzer in the keypad as a speaker to listen to the call being made by the dialler. To use this feature a 5th wire must be connected between the panel “LIN” output and a keypad “INPUT” terminals. The options above allow many combinations of the listen-in to be used or it can be disabled by selecting no options. The listen in at a keypad will not work if the keypad input is set up as a zone input at address P122E option 4.

Dialler Fail Line Switch Output

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

If no value is entered here the dialler will work as normal. If an output number is programmed at this address and the dialler fails to get a kiss off after 3 attempts, the programmed output will turn on so it can be used to direct the dialler to another line source. The dialler will then attempt to connect to monitoring for the balance of the retries (programmed at address P184E) and the output will remain on until the dialler is kissed off or the retry count has been reached, at which time the output will turn off again. When the dialler does get through to monitoring it will report the events that originally triggered the dialler plus a fail to communicate (event 354). If after being directed to another line source (the programmed output has energised) the dialler still doesn’t get kissed off the cycle will repeat. Every time the output switches on a new fail to communicate event will be generated.

DIALLING PRE-FIX NUMBER

DIALLING PRE-FIX NUMBER - P175E 8E (Value 1-16 digits)

The panel can be programmed with a Pre-fix telephone number. The Pre-fix number can be up 16 digits long. The Pre-fix number can be dialled before any of the 8 Telephone numbers if required (P183E Option 7).

"PANIC" ALARM CONTACT ID REPORT CODE

"PANIC" ALARM CONTACT ID REPORT CODE - P175E 9E (3 digit event code)

Normally a keypad initiated Panic alarm would default to reporting a standard "Panic Alarm" code of "120". If the panic alarm is being used for some other purpose and you need to identify the correct type of alarm event you can change the event code at this location.

"FIRE" ALARM CONTACT ID REPORT CODE

"FIRE" ALARM CONTACT ID REPORT CODE - P175E 10E (3 digit event code)

Normally a keypad initiated Fire alarm would default to reporting a standard "Fire Alarm" code of "110". If the fire alarm is being used for some other purpose and you need to identify the correct type of alarm event you can change the event code at this location.

"MEDICAL" ALARM CONTACT ID REPORT CODE

"MEDICAL" ALARM CONTACT ID REPORT CODE - P175E 11E (3 digit event code)
Normally a keypad initiated Medical alarm would default to reporting a standard "Medical Alarm" code of "100". If the medical alarm is being used for some other purpose and you need to identify the correct type of alarm event you can change the event code at this location.

OUTPUT DTMF CONTROL CODE NUMBER

OUTPUT DTMF CONTROL CODE NUMBER - P175E 12E (Value 1-4 digit code 0-9999)
The panel can be configured to allow remote operation of the Outputs via a remote telephone. The code programmed at this address is the DTMF code that must be used when performing this function. When dialling the panel and it has answered the call, after waiting for the voice prompt you can enter in the 1-4 digit DTMF code plus the two digit Output number you wish to control, eg <01> for Output # 1, followed by the # key. The current status of the output will be given. After that, if you press the "*" button on the telephone the status of the output will toggle eg if is was previously On it will change to Off or vice versa and a voice message will announce the current state. When finished you simply hang-up and 15 seconds later the panel will release the line.

MICROPHONE ON/OFF DTMF CODE NUMBER

MICROPHONE ON/OFF DTMF CODE NUMBER - P175E 13E (Value 1-4 digit code 0-9999)
Reserved for future use.

DIALLER ACKNOWLEDGE DTMF CODE NUMBER

DIALLER ACKNOWLEDGE DTMF CODE NUMBER - P175E 14E (Value 1-4 digit code 0-9999)

If the panel is set to report in Domestic or Voice reporting formats, you can simply kiss-off (acknowledge) the alarm by pressing the <#> button on the remote telephone. Alternatively if you require a more secure kiss-off method to ensure that the alarm is only kissed off by the correct person you can program a 1-4 digit code at this location. If a code is programmed at this location you must enter in the code followed by the <#> button to kiss-off the alarm event.

FORCE TEST CALL DTMF CODE NUMBER

FORCE TEST CALL DTMF CODE NUMBER - P175E 15E (Value 1-4 digit code 0-9999)

If a user wishes to remotely force a test call from the panel to a monitoring company using the Contact ID test message, you can dial the panel and when it answers enter the code programmed at this location on the telephone. A voice message will announce that the test has been sent. Once you hang-up the phone the panel will then make a call to the monitoring company and send a manual test call message. If no code is programmed at this location (ie "0") the function will be disabled. The code can be a 1-4 digit number as required.
NOTE: If using this remote test code and any of the other remote DTMF codes at locations (P63E, P175E12E, P175E13E & P175E14E) you should make this code different to any other codes so the panel knows what function is

being operated.
It is also possible to force a locally generated test call from the panel keypad by pressing and holding the <CONTROL> button then <0> within two seconds of pressing control. This will force a test call to the monitoring company.

MISCELLANEOUS VOICE BOARD REPORT MESSAGES

KEYPAD or RADIO PANIC ALARM VOICE MESSAGE NUMBER - P176E 1E (Value 0-99)
FIRE ALARM VOICE MESSAGE NUMBER - P176E 2E (Value 0-99)
MEDICAL ALARM VOICE MESSAGE NUMBER - P176E 3E (Value 0-99)
MAINS FAIL ALARM VOICE MESSAGE NUMBER - P176E 4E (Value 0-99)
MAINS RESTORE VOICE MESSAGE NUMBER - P176E 5E (Value 0-99)
BATTERY LOW ALARM VOICE MESSAGE NUMBER - P176E 6E (Value 0-99)
BATTERY RESTORE VOICE MESSAGE NUMBER - P176E 7E (Value 0-99)
TAMPER ALARMS VOICE MESSAGE NUMBER - P176E 8E (Value 0-99)
DURESS ALARM VOICE MESSAGE NUMBER - P176E 9E (Value 0-99)
LATCHKEY DISARM VOICE MESSAGE NUMBER - P176E 10E (Value 0-99)
MANUAL TEST CALL INITIATED VOICE MESSAGE NUMBER - P176E 11E (Value 0-99)

The panel has default canned messages that are used to annunciate the above alarm events. The Voice Message number is reserved for future use but to ensure that the canned messages are reported it must be set to a value of 1. If set to a value of 0 the canned message will not be reported for the selected option.

TELEPHONE NUMBERS

TELEPHONE NUMBERS - P181E 1-8E (Value 1-16 digit number)

The Telephone Numbers can be up to 16 digits long. They can also include some special functions or characters as per the chart below.

LCD KEYPAD BUTTON	SPECIAL CHARACTERS DISPLAYED ON LCD KP AS;	TELEPHONE NUMBER SPECIAL FUNCTION
CONTROL & 0	**DELETE Number**	**DELETE Number**
CONTROL & 2	**#**	**"#"**
CONTROL & 3	*****	**"*"**
CONTROL & 4	**-**	**"2.5 sec Pause"**
CONTROL & 5	**w**	**"Wait for 2nd Dial-tone"**
CONTROL & 6	**=**	**"5 sec Pause"**

TELEPHONE NUMBER REPORT FORMATS

TELEPHONE NUMBER REPORT FORMATS - P182E 1-8E
Option 0 - No reporting
Option 1 - Contact ID
Option 2 - Spare
Option 3 - Pager
Option 4 - Voice Dialler
Option 5 - CSV IP Extended (sends 4 digit zone/user field)
Option 6 - Patriot IP
Option 7 - XML IP
Option 8 - CSV IP Normal
Option 9 - Spare
Option 10 - SIA
Option 11 - SIA Slow

Option 0 **No Reporting** - If the option is programmed as “0”, the panel will not report in any format for the selected telephone number. If the number is to be used as a Call-back number this option should be programmed as a “0”.

Option 1 **Contact ID** - If this option is set for the telephone number, the panel will send a Contact ID message to a Monitoring Station.

Option 2 **Spare**

Option 3 **Pager** - Report alarm events using "Pager" format. This format utilizes Telecom’s 026 pager network or other public subscriber networks, etc, to send numeric messages to a compatible pager. The panel sends a 12 digit numeric number to the pager consisting of the account code (P62E) the 3 digit CID event code for the alarm event and a 3 digit zone number to identify the zone in alarm.

Option 4 **Voice Dialler -** The panel has built-in canned messages that are used to report alarms in Voice mode.

Option 5 **CSV IP Extended -** If this option is turned on the panel will send an IP signal in CSV format to the central monitoring stations IP address. The extended format increases the zone or user field from a 3 digit number to a 4 digit number.

Option 6 **Patriot IP -**

Option 7 **XML IP -**

Option 8 **CSV IP Normal -** If this option is turned on the panel will send an IP signal in CSV format to the central monitoring stations IP address. The normal format sends the usual 3 digit number for the zone or user field.

Option 9 **Spare -**

Option 10 **SIA -** This option selects FSK SIA format. If using SIA format, ensure that the monitoring receiver does not generate a 4+2 2300hz acknowledge tone before the SIA acknowledge tone because the 4+2 tone accuracy is +/– 5% which can make it the same as the SIA acknowledge tone. Also when reporting alarms on different areas (01 =Area 1 and 02 = Area 2) the panel will send the area number associated with each event (ri01 or ri02) but it will also send different account codes if programmed that way. To avoid using two account numbers when reporting alarms on different areas you should program all account codes (P62E) to be the same number and identifying the two areas by the area number sent.

Option 11 **SIA Slow -** This option selects FSK SIA Slow format. This format is similar to option 10 except every signal will be sent separately with a kissoff after each signal whereas option 10 will send all signals in one continuous burst with one kissoff at the end. In SIA slow the area number is not sent (see option 10 above) so each account code must be different when identifying alarms for both areas.

TELEPHONE NUMBER REPORT OPTIONS

TELEPHONE NUMBER REPORT OPTIONS - P183E 1-8E
Option 1 - Stop Dialling if Kissed Off
Option 2 - Monitor Call Progress
Option 3 - Blind Dial
Option 4 - Use Group Numbers for Contact ID Reporting
Option 5 - Stay On-line after Alarm report for Audio Listen-in
Option 6 - Spare
Option 7 - Use the Dial Pre-fix Number
Option 8 - Spare

Option 1 **Stop if Kissed Off -** If this option is turned on for the telephone number, the dialler will stop sending the alarm if the signal is kissed off and will not proceed with any other telephone numbers for that event. If not kissed off the dialler will start dialling any other programmed numbers. If the event is not kissed off from any of the telephone numbers and the maximum re-tries limit is reached then the event is marked as unsent and will be added to the next event that causes the dialler to report. If this option is off, the dialler will send the event for the maximum re-tries count or until kissed off but it will then proceed to report the same event to any other telephone numbers programmed.

Option 2 **Monitor Call Progress -** Monitor call progress means that the dialler monitors the status of the dialling tones to determine whether the call is valid or not. If the call is not valid, eg engaged, the panel will know and hang up the call and try again.

Option 3 **Blind Dial** - When the dialler makes a call it looks for dial tone before making the call. If no dial tone is detected the panel hangs up and attempts another call. The panel will do this 3 times and if dial tone is still not detected it will make the call anyway. If blind dial is on, the panel skips the dial tone detection and dials 4 seconds after looping the line (used where non standard or low level dial tone exists).

Option 4 **Use Group Numbers for Contact ID Reporting -** When sending an alarm using Contact ID, the panel can send separate account codes to report the two areas or, use one account code (P62E1E Area A) and use the group number to identify the two areas. Turning this option on sends one account with group numbers.

Option 5 **Stay On-line after Alarm report for Audio Listen-in -** If this option is turned ON and the optional listen-in board is fitted, the panel will send a command to the monitoring company in CID or SIA formats to tell the receiver to stay on-line so the operator can listen to the site for any sign of an intruder.

Option 6 **Spare -**

Option 7 **Use the Dial Pre-fix Number -** If the Telephone number does not provide sufficient digits for dialling purposes it is possible to program a dial pre-fix number (P175E8E). The pre-fix can be dialled before the telephone number. Turning this option on dials the pre-fix first followed by the telephone number.

MAXIMUM DIAL RE-TRIES per TELEPHONE NUMBER

MAXIMUM DIAL RE-TRIES per TELEPHONE NUMBER - P184E 1-8E (Value 0-99)

The maximum dial re-tries is the number of times that the panel will dial a telephone number in an attempt to get kissed -off.

DIALLER REPORTING OPTIONS "A"

DIALLER REPORTING OPTIONS "A" - P186E 1-8E
Option 1 - Report Mains Fail
Option 2 - Report Battery Low
Option 3 - Report Radio Battery Low
Option 4 - Report Line Fail
Option 5 - Report System Tamper
Option 6 - Report Keypad Tamper
Option 7 - Report Zone Tamper
Option 8 - Report Radio Zone Tamper

Option 1 **Report Mains Fail -** If this option is on the panel will report a Mains fail after the report delay time (P25E6E) has expired.

Option 2 **Report Battery Low -** If this option is on the panel will report a Battery Low.

Option 3 **Report Radio Battery Low -** If this option is on the panel will report a Battery Low from any radio zones that have the battery status monitored.

Option 4 **Report Line Fail -** If this option is on the panel will report a Telephone Line fail. The panel will send the line fail and the line restore at the same time.

Option 5 **Report System Tamper -** If this option is on the panel will report a Tamper Alarm on the panel tamper input.

Option 6 **Report Keypad Tamper -** If this option is on the panel will report a Tamper Alarm from a keypad fitted with a tamper switch or a wrong code alarm from a keypad.

Option 7 **Report Radio Zone Tamper -** If this option is on the panel will report a Radio Zone Tamper Alarm.

DIALLER REPORTING OPTIONS "B"

DIALLER REPORTING OPTIONS "B" - P187E 1-8E
Option 1 - Report Duress
Option 2 - Report Supervised Radio Alarm
Option 3 - Report Zone Inactivity Alarm

Option 4 - Report Manual Panic Alarm
Option 5 - Report Manual Fire Alarm
Option 6 - Report Manual Medical Alarm
Option 7 - Report Radio Pendant Panic Alarm
Option 8 - Report Zone Bypasses

Option 1 **Report Duress -** If this option is on the panel will report a Duress Alarm (see P25E2E).

Option 2 **Report Supervised Radio Alarm -** If this option is on the panel will report a Supervised radio Alarm (see P25E4E).

Option 3 **Report Zone Inactivity Alarm -** If this option is on the panel will report a Zone Inactivity (Sensor-watch) Alarm (see P163E).

Option 4 **Report Manual Panic Alarm -** If this option is on the panel will report a Keypad generated Panic Alarm.

Option 5 **Report Manual Fire Alarm -** If this option is on the panel will report a Keypad generated Fire Alarm.

Option 6 **Report Manual Medical Alarm -** If this option is on the panel will report a Keypad generated Medical Alarm.

Option 7 **Report Radio Pendant Panic Alarm -** If this option is on the panel will report a Panic Alarm generated by a radio key (pendant).

Option 8 **Report Zone Bypasses -** If this option is on the panel will report a Manual or Auto Bypass on a zone.

DIALLER REPORTING OPTIONS "C"

DIALLER REPORTING OPTIONS "C" - P188E 1-8E
Option 1 - Report Arm/Disarm
Option 2 - Report Stay Mode Arm/Disarm
Option 3 - Report Disarm only after an Alarm
Option 4 - Report Stay Mode Disarm only after an Alarm
Option 5 - Report Stay Mode Zone Alarms
Option 6 - Report Access to Program Mode
Option 7 - Report 24 Hour Alarms for Domestic/Voice Formats
Option 8 - Report Zone Restores

Option 1 **Report Arm/Disarm -** If this option is on then all Arm/Disarm signals will be reported to a Monitoring Station if Contact ID or 4 + 2 is set as the reporting format.

Option 2 **Report Stay Mode Arm/Disarm -** If this option is on then all Stay Mode Arm/Disarm signals will be reported to a Monitoring Station if Contact ID or 4 + 2 is set as the reporting format.

Option 3 **Send Disarm only after an Alarm** - If this option is on, the panel will not normally send an Arm/Disarm signal to the monitoring company, however, if a zone alarm occurs then the panel will send a Disarm following the disarming of the panel to show it has been turned off by a valid user.

Option 4 **Send Stay Mode Disarm only after an Alarm -** If this option is on, the panel will not normally send a Stay Mode Arm/Disarm signal to the monitoring company, however, if a zone alarm occurs then the panel will send a Stay Mode Disarm following the disarming of the panel to show it has been turned off by a valid user.

Option 5 **Report Stay Mode Zone Alarms -** If this option is on, the panel will report zone alarms in Stay Mode.

Option 6 **Report Access to Program Mode** - If this option is on the panel will report a Contact ID code to indicate that either Client or Installer program Modes have been accessed.

Option 7 **Report 24 Hour Alarms for Domestic/Voice Formats -** When the panel is set to send alarms via domestic or voice mode, No alarms will normally be sent for 24 hour zones. If 24 hour alarms are required to be reported in Domestic/Voice mode then this option must be turned on.

Option 8 **Report Zone Restores** - If this option is on the panel will report all zone restores in Contact ID or 4 + 2 formats. If this option is turned off the panel will only report the alarms.

DIALLER REPORTING OPTIONS "D"

DIALLER REPORTING OPTIONS "D" - P189E 1-8E
Option 1 - Report Latchkey Disarm
Option 2 - Report Delinquency Alarm
Option 3 - Report Test Calls
Option 4 - Report Fuse Failure
Option 5 - Report Output 1 or 2 Fail
Option 6 - Report RTC (Real Time Clock) Time changed
Option 7 - Report Keypad Buss Trouble
Option 8 - Report RF Interference (Jamming) Detected

Option 1 **Report Latchkey Disarm -** If the panel is armed in Latchkey Report Mode by using a Code, Key-switch, <ARM>, <STAY>, <A> or <B> buttons, any code or key-switch without the Latchkey option (P4E or P112E Option 6 off) used to Disarm the Alarm will cause a Latchkey Disarm report to be sent via the dialler. For Domestic or Voice reporting option 1 at P188E must also be turned ON.

Option 2 **Report Delinquency Alarm -** If the panel has been configured for Delinquency monitoring (P67E) and an area has not been armed for the time set at P67E, a Delinquency Alarm will be sent to the Monitoring Station if Contact ID or 4 + 2 is set as the reporting format.

Option 3 **Send Test Calls** - If Contact ID format is used for reporting alarm, the panel can also send Automatic test calls. If this option is turned on the test calls will be sent but if test calls are not required they can be disabled by turning this option off.

Option 4 **Report Fuse Failure -** The panel has two on-board thermal fuses designed to protect the 12v DC outputs from short circuits. If this option is on and either of these fuses are open, a report will be sent to the monitoring station if Contact ID is set as the reporting format.

Option 5 **Report Output 1 or 2 Fail -** The panel has two high current Outputs (O/P 1 & 2). These Outputs are normally used to drive sirens or strobes for local alarm warning. If option 8 at location P37E is on for either O/P 1 or 2 the Output status will be monitored (eg wire to siren has been cut). If this option is on and a fault is detected on the output, a report will be sent to the monitoring station if Contact ID is set as the reporting format

Option 6 **Report RTC (Real Time Clock) Time Changed -** If the panel clock is changed and this option is turned on, the event will be reported to the monitoring station.

Option 7 **Report Keypad Buss Trouble -** If any connected keypads are removed from the system they will be reported as missing if this option is turned on.

Option 8 **Report RF Interference (Jamming) Detected -** If the radio receiver detects RF Interference (jamming) of the radio frequency the panel can report this event to the monitoring station if this option is turned on.

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

The programmable SIA alarms events below are changed by programming a value from 1-14 (see chart below). For example, to send the SIA "Emergency Alarm" code when a keypad panic is generated you must program a value of "7" at location P197E1E.
From the chart below you can select one of 14 options that should cover most of the custom requirements.
As an example, if you required zone 10 to send a fire alarm you would program a value of 4 at address P196E10E.
When you program a particular alarm type at any of the locations below, the panel will automatically send all of the other associated reports (if applicable) from the chart. Using the same example, if zone 10 was bypassed and the SIA report code was set to type 4, the panel will send an "FB" event code to indicate that it is a fire zone bypass instead of the default burglar alarm bypass (BB).

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	-	-

ZONE ALARM SIA REPORTING CODES

ZONE ALARM SIA REPORTING CODE - P196E 1-64E (Value from 1-14 taken from the chart above)

"PANIC" ALARM SIA REPORTING CODES

"PANIC" ALARM SIA REPORTING CODE - P197E 1E (Value from 1-14 taken from the chart above)

"FIRE" ALARM SIA REPORTING CODES

"FIRE" ALARM SIA REPORTING CODE - P197E 2E (Value from 1-14 taken from the chart above)

"MEDICAL" ALARM SIA REPORTING CODES

"MEDICAL" ALARM SIA REPORTING CODE - P197E 3E (Value from 1-14 taken from the chart above)

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

PANEL SOFTWARE VERSION NUMBER

PANEL SOFTWARE VERSION NUMBER - P200E 1E

This location will display the software version of the panel.

KEYPAD ADDRESS NUMBER

KEYPAD ADDRESS NUMBER - P200E 2E

This location will display the keypad number of the keypad currently in program mode.

AREAS ASSIGNED to the KEYPAD

AREAS ASSIGNED to the KEYPAD - P200E 3E

This location will display the Areas assigned to the keypad currently in program mode.

DISPLAY TIME-ZONES CURRENTLY ACTIVE

DISPLAY TIME-ZONES CURRENTLY ACTIVE - P200E 4E

This location will display which of the 32 Time-zones are currently on.

DISPLAY BATTERY VOLTAGE

DISPLAY BATTERY VOLTAGE - P200E 5E

This location will display the system battery voltage measured by the panel.

WALK TEST MODE

WALK-TEST MODE - P200E 6E

This address is used to start walk-test mode while in installer or client program mode. By pressing P200E6E at the keypad, the keypad buzzer will beep at 1 second intervals to indicate walk-test mode is active. If a siren is connected to an Output and that output has option 1 turned on at location P36E the siren will give a 1 second beep every time a zone is triggered while walk-test mode is active. By walking past all of the detectors connected to the system and activating them, the associated zone will latch up at the keypad to allow verification that all zones are working properly. By pressing the <Program> or <Enter> button, walk-test mode will be terminated and the panel will leave program mode. The results of the walk-test will be saved in the memory event buffer and can be viewed by accessing memory display mode to verify which detectors were triggered during walk-test mode. If Output 1 or 2 are used for the Audible walk-test indication and a horn speaker is connected to the output (see P37E1 or 2E option 1), the siren on the output will give a single tone for the chirp instead of the swept tone used for alarms.

UPDATE "FIRMWARE" to LCD KP, Zone & Output EXP.

UPDATE "FIRMWARE" TO LCD KP, ZONE AND OUTPUT EXPANDERS - P200E 7E

Once a panel firmware update has been performed any new updates for the full LCD keypad, Zone or Output expanders will transferred to the panel at the same time. By entering in P200E7E the panel will check to see if any devices connected to the keypad bus need a firmware update and it will send those updates down the keypad bus if required.

UPDATE "TEXT FILES" TO LCD KEYPADS

UPDATE "TEXT FILES" TO LCD KEYPADS - P200E 8E

Once a panel firmware update has been performed any new TEXT updates for the full LCD keypad will be transferred to the panel at the same time. By entering in P200E8E the panel will send the updated text files to all LCD keypads connected to the keypad bus.

DEFAULT CODES & TELEPHONE NUMBERS

DEFAULT CODES & TELEPHONE NUMBER - P200E 9E

This location is used to return the panels User and Installer Codes plus the Telephone Numbers & Account Codes to the default settings.

DEFAULT ALL PROGRAMMING TO FACTORY SETTINGS

DEFAULT ALL PROGRAMMING TO FACTORY SETTINGS - P200E 10E

This location is used to return the panels programmed data (excludes any custom LCD text) back to the factory default settings.

CLEAR ALARM MEMORY BUFFER

CLEAR ALARM MEMORY BUFFER - P200E 11E

This location is used to clear ALL of the events stored on memory.

DEFAULT ALL LCD TEXT

DEFAULT ALL LCD TEXT - P200E 12E

This location is used to return the customised LCD text back to the default values. Once defaulted at this location the defaulted text is downloaded to all LCD keypads on the panels keypad bus.

READ RSSI from PENDANTS and WIRELESS ZONES

READ RSSI from PENDANTS and ZONES - P200E 14E

This location is used to display the RSSI (received signal strength) from Pendants and Wireless Zones that are loaded into the panel. The feature was added at panel version V906.5 and requires the RX-16 MF receiver to be connected to the panel for RSSI data to be available. The RSSI reading will be shown along with the user or zone

number that was received. The feature can only be displayed on LCD keypads with a software version of V208.5 and higher or the Icon LCD keypad

IP ALARM SETUP

PANEL IP ADDRESS - P201E 1E
This location is where the control panel IP Address can be set (provided option 1 at P201E4E is off). The IP Address must be set to a spare IP number that matches the Local LAN IP numbering system used. The IP address set at this location can also be viewed in normal mode by pressing the number “9” for 5 seconds.

IP GATEWAY ADDRESS - P201E 2E
This location is where the internet gateway address can be set.

IP SUBNET MASK - P201E 3E
This is where the Subnet mask can be set. It would normally be a value of 255.255.255.0.

IP SETUP OPTIONS - P201E 4E

Option 1 - DHCP or Manual Panel IP address (Off = Automatic DHCP, On = Manual IP setting)
Option 2 - Enable logging of Ethernet resets
Option 3 - Sync panel clock to the internet time.
Option 4 - Enable Serial over IP Communications

Option 1 **Manual panel IP Address -** If this is On the panel must have a manually assigned IP address programmed at P201E1E. If this option is Off DHCP will be turned on where the panel will ask for an IP and Gateway address from the local server.
Option 2 **Enable logging of Ethernet resets -** If this is On the panel check the Ethernet connection on a regular basis and log any resets to the memory log.
Option 3 **Sync Panel Clock to Internet Time -** If this is On the panel the panel will update it’s time every 24 hours with the programmed time server/s.
Option 4 **Enable Serial over IP Communications -** If this option is On the RS232 BD-RUNNER 8/64 serial commands are available as TCP/IP signals via the panels Ethernet connection. The connection will timeout (programmed at P25E21E) when there is no activity from the remote end via the serial over IP port. To keep the connection alive the remote end (the automation system) will need to periodically send a signal before this timeout value expires, eg if the timeout is set to 30 seconds the remote end should send a signal every 20 seconds. A simple CR (Carriage return) is all that’s needed to keep the connection alive, although sending “STATUS” will request the latest panel status and keep the connection alive while providing useful information. When a session is opened with the panel the panel will respond with “Welcome”, when the session is closed by the panel (eg this timer expires) the panel will send “Bye.”. **DISPLAY PANEL MAC ADDRESS** - P201E 5E
This Address allows you to view the internal panel MAC Address. It can also be viewed by pressing the number “8” for 5 seconds in normal mode.

CSV IP REPORTING NAME - P201E 6E
The CSV reporting format allows for a name to be added to the beginning of the data. The name can be programmed at this location and it applies to all monitoring addresses programmed at P203E 1-8.

CSV IP REPORTING PASSWORD - P201E 7E
The CSV reporting format allows for a password to be added to the beginning of the data. The password field follows the name field and can be programmed at this location and it applies to all monitoring addresses programmed at P203E 1-8.

ALTERNATIVE GATEWAY - P201E 8E
If the primary gateway was a land-based connection it is possible to set up a cellular back up (Alternative) Gateway which the panel can revert to if the primary gateway is not working. If unused leave as 000.000.000.000. Do not program an invalid secondary Gateway address as this will cause communications issues.

PRIMARY DNS SERVER - P201E 9E
Monitoring addresses (P203E1-8E) and time servers (P201E11-12E) can be URL's. The panel can find the IP addresses by using this primary DNS server (Default: 8.8.8.8).

SECONDARY DNS SERVER - P201E 10E
Monitoring addresses (P203E1-8E) and time servers (P201E11-12E) can be URL's. The panel can find the IP addresses by using this secondary DNS server (Default: 8.8.4.4)

PRIMARY TIME SERVER - P201E 11E
If the panel is permanently connected to the internet the panel clock can be synced to an internet time server. The primary time server can be programmed at this location. To allow the panel to sync to the internet time option 3 must be turned on at address P201E4E and the correct time zone selected at P25E17E (Default NTP server: 0.nz.pool.ntp.org).

SERIAL OVER IP PORT - P201E 13E
If option 4 is turned on at P201E4E the panel will allow TCP/IP communication with automation systems via the Ethernet connection using the port programmed at this location. The default port number is 9000.

MONITORING IP REPORTING PORT NUMBER - P204E 1-8E
There is a separate port number for each of the 8 IP Reporting Numbers

IP REPORTING POLL TIMER - P202E 1-8E
There is a programmable poll timer for each of the possible 8 IP reporting numbers (P203E). The Poll timer can be set to a value between 0-9999 minutes**.**

MONITORING IP REPORTING NUMBER/URL - P203E 1-8E
There are up to 8 IP Reporting Numbers/URL's that can be programmed into the panel. When entering in a URL at the LCD keypad the letters (all lower case), and numbers, are entered in exactly the same way that LCD text for zones, outputs, areas, etc, is entered. The number 1 key can be used to enter in a "1", or "." or "-" in the URL or IP address.

MONITORING IP REPORTING PORT NUMBER - P204E 1-8E
There is a separate port number for each of the 8 IP Reporting Numbers.

RUNNER 8/64 PROGRAM SUMMARY GUIDE

The following program summary is an abbreviated version of all the panel program addresses. This is intended as a quick guide to finding a program address. In many address locations, there is a main address (e.g. "*P1E*"), then a sub address (e.g. P1E "*1E*"). You must enter in the main address number, followed by the sub address, then you can enter the actual data. The program addresses are in numerical order with page references beside them so you can get more detailed information if required. This Summary is split into 13 headings. These are;

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. Page 24

(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) Page 24

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 Page 25

User Code Access Options

P4E 1-2000E Users 1-2000 Access Options (Default = 1,3,4) Page 25

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) Page 26

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 Miscellaneous Options

P6E 1-2000E Users 1-2000 Misc Opts 1 = User is Excluded from Global trouble Reset Page 26

Radio User Type

P7E 101-2000E Radio User 101-2000 Type (Default = 0) Page 26

0 = General Pendant Type
1 = Crow Freewave Pendant
21 = Ness Pendant

Radio User Privileges

P8E 101-2000E Radio Users 101-2000 Privileges (Default = 1) Page 27

1 = Pendant Can Disarm at All Times
2 = Pendant Causes Immediate Panic
3 = Pendant Causes Delayed Panic (1.5 Sec)
4 = Pendant only works during Entry Delay
5 = This User is a Duress Code (Users 21-100)
6 = Spare
7 = Spare
8 = Spare

Time Zone Assigned to a User

P9E **1-2000E** **Time Zone to User # 1-2000** Page 27
(Default = All Off)

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

User Activates Dormant Time Zone

P1032E **1-2000E** **User Activates Time Zone # 1-2000** Page 27
(Default = All Off)

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

User to Keypad Assignment

P10E **1-2000E** **User # 1-2000 Keypad Assignment** Page 27
(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** Page 28
(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** Page 28
(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** Page 28
(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

Radio Pendant Panic Alarm to an Output

P15E **101-2000E** **Radio # 101-2000 Panic Alarm to an O/P** Page 28
(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 Page 28

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 Page 28

Learn Radio Pendant Codes

P18E 101-2000E Learn Radio Pendant Codes for Users 101-2000 Page 28
(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 Page 29
(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 # Page 29
(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 Page 29
(applies if the User Type, P2E, is set to 2, 3 or 4)

Delete a Specific Access Tag/Card Code

P22E 1-2000E Delete a Specific Access Tag/Card Code for Users 1-2000 Page 29
(applies if the User Type, P2E, is set to 2, 3 or 4)

Find an Access Tag/Card memory Location

P23E ENTER Enter this address then operate the Access Tag/Card to find its user # Page 29
(applies if the User Type, P2E, is set to 2, 3 or 4). After P23E press enter to start the find process.

Manually enter in a Card/Tag Printed Number

P24E 1-2000E Enter this address then type in the 10 digit printed card/tag number # Page 30

Code/Tag/Radio User Usage Count

P1025E 1-2000E A value of 1-254 equals the number of times it can be used. 255 = always Page 30

Code/Tag/Radio User Start Date

P1026E 1-2000E DD:MM:YY The date a Code/Tag/Radio User will start to function. Page 30

Code/Tag/Radio User End Date

P1027E 1-2000E DD:MM:YY The date a Code/Tag/Radio User will cease to function. Page 30

Code/Tag/Radio User Start Time

P1028E 1-2000E HH:MM The time a Code/Tag/Radio User will start to function. Page 30

Code/Tag/Radio User End Time

P1029E 1-2000E HH:MM The time a Code/Tag/Radio User will cease to function. Page 30

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

Installer Code

P25E 1E Installer Code - (Default = 000000) Page 30

Duress Digit

P25E 2E Duress Digit - Value 1-9 (Default = 0 Duress Function Disabled) Page 31

Dial Report Delay

P25E 3E Dial Report Delay - Value 0-255 seconds (Default = 0) Page 31

Radio Detector Supervised Timer

P25E 4E Radio Detector Supervised Timer - 0-9999 Minutes (Default = 240 Minutes [4 Hours]) Page 31

Two Trigger Timer

P25E 5E Two Trigger Timer - Value 0-255 Seconds (Default = 60 Sec) Page 31

Mains Fail Reporting Delay

P25E 6E Mains Fail Reporting Delay - Value 0-9999 Seconds (Default = 600 Sec) Page 31

Receiver Fail Delay

P25E 7E Receiver Fail Delay - Value 0-9999 Seconds (Default = 0 Sec-Disabled) Page 31

Upload/Download Site Code Number

P25E 8E Upload/Download Site Code Number - Up to 8 Characters (Default = None) Page 31

Temporary Output Disable

P25E 9E Temporary Output Disable - Output 1-32 Page 31

Miscellaneous Panel Options

P25E 10E Misc. Panel Options (Default = 2,6) **Miscellaneous Options** Page 32

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

Installer Options

P25E 11E Installer Options (Default = All Off) Page 32

1 = Installer MUST enter program mode via Client mode to reset confirmed alarms
2 = Installer MUST enter program mode via Client mode to reset tamper alarms
3 = Installer MUST enter program mode via Client mode to reset low battery alarms
4 = Installer MUST 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

User Options

P25E 12E User Options (NOTE: This Option can ONLY be accessed from Client Mode) Page 33
(Default = All Off) 1 = Hide User Codes from Installer

P25E 13E Misc. User Options (Default =) **Miscellaneous User Options** Page 33

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. Page 34

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. Page 34

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. Page 34

World Time Zone

P25E 17E World Time Zone Page 34

Program Mode/Arming Options

P25E 18E Prog/Arm Options (Default = None) **Program Mode/Arming Options** Page 34

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
8 = Hide extended information in the memory events

Serial over IP User Name

P25E 19E Serial over IP User Name (maximum 16 characters) Page 34

Serial over IP Password

P25E 20E Serial over IP Password (maximum 16 characters) Page 34

Serial over IP User Timeout

P25E 21E Serial over IP User Timeout (Default = 300, 10-600 seconds) Page 34

Setting Real Time Clock

P26E 1E Real Time Hour/Minute - Value 0-2359 Page 34
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) Page 34
2E Daylight Saving End Sunday - Value 0-5 - Default = 1 (0 = DLS disabled, 5 = last Sunday of Month)
P28E 1E Daylight Saving Start Month - Value 1-12 - Default = 9
2E Daylight Saving End Month - Value 1-12 - Default = 4
P29E 1E Daylight Saving Start Hour - Value 0-23 - Default = 2
2E Daylight Saving End Hour - Value 0-23 - Default = 3

++++Outputs++++

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 Page 35

Program LCD KP "Output" Name

P31E 1-32E Program LCD KP "Output" Name Text Page 35

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 Page 35
(see P37E option 1 for details on setting O/P 1 & 2 as a siren output)

Programming Output Options "A"

P34E 1-32E Options "A" for Outputs 1-32 Page 35
(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 Page 36
(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 Page 36
(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 Page 37
(Default = All Off)
1 = Siren Driver to Output (requires a horn speaker, outputs 1&2)
2 = Output Chime timer is in minutes (off for -1/10th seconds)
3 = Output 'silenced' for 10 seconds on key-press if alarm
4 = Turn Output OFF during Two Way Voice Mode
5 = Spare
6 = Pulse output when inactivity Pre-alert timer (P4072E) is running
7 = Spare
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) Page 38

Output Pulse Time

P39E 1-32E Output 1-32 Pulse Time - 0-255;1/10th Sec increments (Default =2 which is 0.2 sec) Page 38

Output Reset Time

P40E 1-32E Output 1-32 Reset Time - 0-65535 Seconds (Default = 300 Sec) Page 38

Output Chime Mode Time

P41E 1-32E Output 1-32 Chime Timer - 0-9999;1/10th Sec increments (Default =10 which is 1 sec) Page 38

Start of Output "Command Control" Status Messages

P42E 1-32E Reserved for future use. Page 38

Un-Map an Output

P43E 1-32E Un-map Outputs 1-32 (remove ALL Defaults from an Output) Page 38

Assigning a Time-zone to an Output

P44E 1-32E Time-zones that will control Outputs 1-32 - Value = Time-zone 01-32 (Default = All Off) Page 38

(NOTE: If a TZ has turned an Output ON the TZ will override any reset time programmed for the Output. 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.)

Area 1-32 Options A

P45E 1-32E Area 1-32 Options A Page 39
(Default = All Off)

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 1-32 Options B

P46E 1-32E Area 1-32 Options B Page 39
(Default = All Off)

1 = Near and Confirmed Alarm reporting for All zones in this Area (CID only)
2 = Area will arm at end of time-zone
3 = Area will disarm at beginning of time-zone
4 = Assign Chirps to Access tags
5 = Spare
6 = Spare
7 = Cannot Arm if Zone Unsealed at end of Exit Delay
8 = 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) Page 40
(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) Page 40
(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) Page 40
(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) Page 40
(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) Page 41
(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) Page 41
(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) Page 41
(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) Page 41
(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) Page 41
(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) Page 42
(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) Page 42
(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) Page 42
(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) Page 42
(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 Page 42
(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 Page 42
(Default = 30 Seconds for all Areas)

Area 1-32 Monitoring Account Code Number

P62E 1-32E Area 1-32 Account Code - Value 0000-FFFF Page 43
(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) Page 43
(Default = No code for all Areas)

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

P64E 1-32E Reserved for future use. Page 43

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) Page 43
(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) Page 43
(Default = All Off)

Area 1-32 Delinquency Delay

P67E 1-32E Area 1-32 Delinquency Delay - value 0-99 Days, (0 = Off) Page 44
(Default = 0 for all Areas)

Area 1-32 Auto Arm/Disarm Time-zones

P68E 1-32E Area 1-32 Auto Arm/Disarm Time-zones - Value 01-32 (for Time-zones 1-32) Page 44
(Default = All Off)

Program LCD KP "Area" Name

P69E 1-32E Program LCD KP "Area" Name Text Page 44

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 Page 44

Area 1-32 Zone Activity Timer

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

Area 1-32 Zone Activity 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)

Area 1-32 "In Alarm" Disarm Delay Timer

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

++++Keypads++++

Keypad Area Assignment

P71E 1-32E Keypads Assigned To Areas 01-32 = Areas 1-32 Page 44
(Default = 1,2)

Keypad Button Options

P72E 1-32E Keypad Button Options Page 44
(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 = <CONTROL> + <CHIME> Panic Alarm Enabled
6 = <A> + <B> Fire Alarm Enabled
7 = <B> + <CHIME> Medical Alarm Enabled
8 = Stay Armed Beep to Keypad

Keypad Options C

P5070E 1-32E **Keypad Options C** (Default = All 1,2)
1 = Enable Away Disarm at Keypad
2 = Enable Stay Disarm at Keypad

Alarm Beeps & LED Control to Keypad

P73E 1-32E **Keypad Beep/LED Options** (Default = 5) Page 45
1 = Mains Fail Beeps Keypad Buzzer
2 = Fuse Failure Beeps Keypad Buzzer
3 = Battery Low Beeps Keypad Buzzer
4 = Telephone Line Failure Beeps Keypad Buzzer
5 = System Tamper Alarm Beeps Keypad Buzzer
6 = Receiver Fail Beeps Keypad Buzzer
7 = Turn Off Keypad LED's when Armed
8 = Turn Off Keypad & Backlight LED's on Mains Failure

Keypad "ARM" Button Area Assignment

P74E 1-32E **Keypad "ARM" Button Area** (Default = 1) 01-32 = "ARM" Button assigned to Area 1-32 Page 46

Keypad "ARM" Button Options

P75E 1-32E **Keypad "ARM" Button Opts.** (Default = 1,7) Page 46
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 1-32E **Keypad "STAY" Button Area** (Default = 1) 01-32 = "STAY" Button assigned to Area 1-32 Page 47

Keypad "STAY" Button Options

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) Page 47
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 Area Assignment

P78E 1-32E **Keypad "A" Button Area** (Default = 1) 01-32 = "A" Button assigned to Area 1-32 Page 48

Keypad "A" Button Options

P79E 1-32E **Keypad "A" Button Opts.** (Default = 1,7) Page 48
1 = "A" Button can Arm
2 = "A" Button can Stay Mode Arm
3 = "A" Button can Disarm at All Times
4 = "A" Button can Disarm Stay Mode at All Times
5 = "A" Button can Reset Alarms
6 = "A" Button can Arm Latchkey Mode
7 = "A" Button can Disarm During Exit Delay
8 = "A" Button can Disarm Stay Mode During Exit Delay

Keypad "B" Button Area Assignment

P80E 1-32E **Keypad "B" Button Area** (Default = 2) 01-32 = "B" Button assigned to Area 1-32 Page 49

Keypad "B" Button Options

P81E 1-32E **Keypad "B" Button Opts.** (Default = All Off) Page 49
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** (Default = All Off) 01-32 = The Keypad is linked to Output # 1-32 Page 49

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

P83E 1-32E **Keypad "Control" Button to Output Mask** Page 50
(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 Page 50
(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 Page 50
(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 Page 50
(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 Page 50
(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 Page 50
(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 Page 50
(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 Page 51
(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 Page 51
(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 Page 51
(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 Page 51
(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 Page 51
(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% Page 51

LCD Keypad Display Options

P96E 1-32E LCD Keypad Display Options Page 51
(Default = All Off)
1 = 2 x 20 Display Mode (On=AAP Logo Display)
2 = Spare
3 = Show LCD System name (ON=Show KP Name, 1 =OFF)
4 = Display Armed Areas as numbers
5 = Spare
6 = Spare
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 Page 52

Proximity Reader LED to Output Mapping

P98E 1-32E Proximity Reader LED to Output Mapping Page 52
(Default = None) 01-32 = Proximity Reader 1-32 LED will follow the state of Output # 1-32

Program LCD KP "Keypad" Name

P100E 1-32E Program LCD KP "Keypad" Name Text Page 52

Zones

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 Page 53

Global EOL Zone Options

P119E 1E **Global EOL Zone Options** (Default = 3)

0 = If set to 0 allows P125E to set individual values from 1-13 Page 53
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)

Zone Key-switch Options

P120E 1-64E **Zone Key-switch Options** (Default = All Off)

1 = K/S can Arm Area Page 53
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)

Programming Zones to Areas

P121E 1-64E **Assigning Zones to Areas 1-32** (Default = 1)

01-32 = Assigned to Area 1-32 Page 54

Programming Zone Options A

P122E 1-64E **Programming Zone Options A**
(Default Zone 1-4 = 1,6,7,8)
(Default Zone 5-8 = 1,7,8)
(Default Zone 9-16 = 7,8)

1 = Zone is Active Page 54
2 = Zone is N/O (Off = N/C)
3 = Not an Exit Delay Zone
4 = Keypad Zone
5 = Zone is a Radio Zone
6 = Zone is a Stay Mode Zone
7 = Zone can be Manually Bypassed
8 = Zone can be Auto-Bypassed

Programming Zone Options B

P123E 1-64E **Programming Zone Options B** (Default = All Off)

1 = Zone is a Handover Zone Page 55
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 1-64E **Programming Zone Options C** (Default = 2)

1 = Can Arm if Zone is not Ready Page 57
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 1-64E **Programming Zone Options D** (Default = All Off)

1 = Zone is Excluded from Activity monitoring Page 57
2 = Zone will hold off Arming until Sealed
3 = “Security Interlock” zone

Programming Zone EOL (End-of-line) Options

P125E 1-64E **Programming Zone EOL Options**
(Default = 3)
(NOTE: P119E MUST be set to 0 for P125E to work)

0 = Short Circuit Page 57
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)
13 = 3k3 / 6k8 (Single zone with tamper)

Programming Zone Response

P126E 1-64E **Programming Zone Response** Page 57
(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 1-64E **Programming the Radio Zone Type from the List** - Value = 1-35 Page 58
(Default = 4)

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

Armed Zone Alarms to Outputs

P128E 1-64E **Armed Zone Alarms to Output** Page 59
(Default = 1,2) 01-32 = A Zone Alarm will Turn On Output # 1-32

Armed Stay Mode Zone Alarms to Outputs

P129E 1-64E **Armed Stay Mode Zone Alarms to Output** Page 59
(Default = 2) 01-32 = A Stay Mode Zone Alarm will Turn On Output # 1-32

24 Hour Zone Alarms to Outputs

P130E 1-64E **24 Hour Zone Alarms to Output** Page 59
(Default = All Off) 01-32 = A 24 Hour Zone Alarm will Turn On Output # 1-32

Chime Zone Alarms to Outputs

P131E 1-64E **Chime Zone Alarms to Output** Page 59
(Default = All Off) 01-32 = A Chime Zone Alarm will Turn On Output # 1-32

Zone Tamper Alarms to Outputs

P132E 1-64E **Zone Tamper Alarms to Output** Page 59
(Default = 1,2) 01-32 = A Zone Tamper Alarm will Turn On Output # 1-32

Programming Zone Options D

P6133E 1-64E **Programming Zone Options D** Page 57
(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 1-64E **Armed Zone Alarm Beeps to Keypads** Page 59
(Default = All On) 01-32 = An Armed Zone Alarm will Beep Keypad #1-32

Stay Mode Zone Alarm Beeps to Keypads

P135E 1-64E **Stay Mode Zone Alarm Beeps to Keypads** Page 60
(Default = All On) 01-32 = A Stay Mode Zone Alarm will Beep Keypad #1-32

24 Hour Zone Alarm Beeps to Keypads

P136E 1-64E **24 Hour Zone Alarm Beeps to Keypads** Page 60
(Default = All On) 01-32 = A 24 Hour Zone Alarm will Beep Keypad #1-32

Chime Zone Alarm Beeps to Keypads

P137E 1-64E **Chime Zone Alarm Beeps to Keypads** Page 60
(Default = All Off) 01-32 = A Chime Zone Alarm will Beep Keypad #1-32

Zone Tamper Alarm Beeps to Keypads

P139E 1-64E **Zone Tamper Alarm Beeps to Keypads** Page 60
(Default = All On) 01-32 = A Zone Tamper Alarm will Beep Keypad #1-32

Radio Supervise Alarm Beeps to Keypads

P140E 1-64E **Radio Supervise Alarm Beeps to Keypads** Page 60
(Default = All Off) 01-32 = A Radio Supervise Alarm will Beep Keypad #1-32

Zone Sensor-watch Alarm Beeps to Keypads

P141E 1-64E **Zone Sensor-watch Alarm Beeps to Keypads** Page 60
(Default = All Off) 01-32 = A Zone Sensor-watch Alarm will Beep Keypad #1-32

Armed Zone Entry Delay Beeps to Keypads

P142E 1-64E **Armed Zone Entry Delay Beeps to Keypads** Page 60
(Default = 1) 01-32 = Armed Zone Entry Delay will Beep Keypad #1-32

Stay Mode Entry Delay Beeps to Keypads

P143E 1-64E **Stay Mode Entry Delay Beeps to Keypads** Page 61
(Default = 1) 01-32 = Stay Mode Entry Delay will Beep Keypad #1-32

Armed Zone Entry Delay Times

P144E 1-64E **Armed Zone Entry Delay Times** - Value 0-9999 seconds Page 61
(Default Zone # 1 = 20 Seconds, Zones # 2-64 = 0)

Stay Mode Entry Delay Times

P145E 1-64E **Stay Mode Entry Delay Times** - Value 0-9999 seconds Page 61
(Default Zones # 1-4 = 20 Seconds, Zones # 5-64 = 0)

Zone Re-trigger Count

P146E 1-64E **Zone Re-Trigger Count** - Value 0-15 (Maximum number of times a zone can re-trigger Page 61
(Default = 0) during armed state. 0=Unlimited Triggers)

Zone Reports using this Area

P147E 1-64E **Zone Reports using this Area** - Value 0-32 Page 61

Zone Alarm Contact ID Reporting Codes

P157E 1-64E **Zone Alarm Contact ID Reporting Code -** (Default = 130) Page 61

Zone Near Alarm Contact ID Reporting Codes

P158E 1-64E **Zone Near Alarm Contact ID Reporting Code -** (Default = 138) Page 61

Zone Intrusion Verified Alarm Contact ID Reporting Codes

P159E 1-64E **Zone Intrusion Verified Alarm Contact ID Reporting Code -** (Default = 139) Page 61

Zone Alarm Voice Message Number

P160E 1-64E **Zone Alarm Voice Message Number -** Value-0-99 (Default = 1) Page 61

Away Zone Entry Delay to Outputs

P161E 1-64E **Away Zone Entry Delay to Outputs** Page 62
(Default = All Off) 01-32 = Armed Zone Entry Delay to output #1-32

Stay Mode Entry Delay to Outputs

P162E 1-64E **Stay Mode Entry Delay Beeps to Outputs** Page 62
(Default = All Off) 01-32 = Stay Mode Entry Delay to output #1-32

Sensor-Watch Timer

P163E 1-64E **Sensor-Watch Timer -** 0-9999 Minutes (Default = 7200 minutes [120 Hours]) Page 62

Enrolling Radio Zone Codes

P164E 1-64E **Learn Radio Zone Codes** Page 62

Delete a Specific Radio Zone Code

P165E 1-64E **Delete a Specific Radio Zone Code** Page 62

Find Radio Zone memory Location

P166E ENTER **This will find the zone # of any Radio Zone code stored in the panel** Page 62
.After P166E press enter to start the find process

Zone Near Alarm to Outputs

P167E 1-64E **Zone Near Alarm to Outputs** Page 62
(Default = All Off) 01-32 = Zone Near Alarm to output #1-32

Zone Confirmed Alarm to Outputs

P168E 1-64E **Zone Confirmed Alarm to Outputs** Page 63
(Default = All Off) 01-32 = Zone Confirmed Alarm to output #1-32

Program LCD KP "Zone" Name

P169E 1-64E **Program LCD KP "Zone" Name Text** Page 63

Access Control Door Monitor Linked to Output

P6174E 1-64E **Access Control Door Monitor Linked to Output** Page
(Default = All 0) 01-32 = Output #1-32 (0 = Disabled)

Access Control Options

P6175E 1-64E **Access Control Options** Page
(Default = 0)

0 = Disabled, no access monitor options
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 1-64E **Access Control Options B** Page
(Default = None)
1 = Report access violation as output # not zone #
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 1-64E **Access Door Open Too Long Beeps to Keypads** Page
(Default = All Off) 01-32 = An Access Door left Open too long will Beep Keypad #1-32

Access Door Forced Open Beeps to Keypads

P6178E 1-64E **Access Door Forced Open Beeps to Keypads** Page
(Default = All Off) 01-32 = An Access Door forced Open twill Beep Keypad #1-32

Access Door Open Too Long to Outputs

P6179E 1-64E **Access Door Open Too Long to Outputs** Page
(Default = All Off) 01-32 = An Access Door left Open too long will trigger Output #1-32

Access Door Forced Open to Outputs

P6180E 1-64E **Access Door Forced Open to Outputs** Page
(Default = All Off) 01-32 = An Access Door forced Open twill trigger Output #1-32

Programming Holidays

P170E 1-32E **Holidays 1-32 Days -** Value = DDMMYY Page 63

Programming Time Zone Days

P171E 1-32E **Time Zones 1-32 Days** Page 63
(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 1-32E **Time Zones 1-32 Start Time -** Value 0000-2359 (Default = 0000) Page 63
P173E 1-32E **Time Zones 1-32 End Time -** Value 0000-2359 (Default = 0000)

Time Zone Options

P174E 1-32E **Time Zone 1-32 Options** Page 64
(Default = All Off)
1 = Ignore Holidays
2 = Dormant Time Zone (see P1032E)

Dialler Programming Options

P175E 1E **Dialler options** Page 64
(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 = Spare
8 = Spare

Dialler Programming Options 2

P175E 2E **Dialler options 2** Page 64
(Default = 1)
1 = Step number on each call
2 = Spare
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

Auto-Answer Ring Count

P175E 3E **Auto-Answer Ring Count -** Value 0-99 (Default = 25) Page 65

Test Call Start Time

P175E 4E **Test Call Start Time -** Value 0000-2359 (Default = 2300) Page 65

Test Call Time Period

P175E 5E **Test Time Call Period -** Value 0-255 Hours: 0 = No Test (Default = 24) Page 65

Keypad Listen-in Options

P175E 6E **Keypad Listen-in Options** Page 65

(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

Dialler Fail Line Switch Output

P175E 7E **Dialler Fail Line Switch Output** - Value = Output number 1 –32 Page 66

Dialling Pre-fix Number

P175E 8E **Dialling Pre-fix Number -** Value 1-16 Digits (Default = 0) Page 66

"Panic" Alarm Contact ID Reporting Code

P175E 9E **"Panic" Alarm CID Reporting Code** - (Default=120) Page 66

"Fire" Alarm Contact ID Reporting Code

P175E 10E **"Fire" Alarm CID Reporting Code** - (Default=110) Page 66

"Medical" Alarm Contact ID Reporting Code

P175E 11E **"Medical" Alarm CID Reporting Code** - (Default=100) Page 66

Output "Command Control" Code Number

P175E 12E **Output Command Control code** - Value 1-4 digit code (1-9999) (Default = 0) Page 66

Microphone On/Off "Command Control" Code Number

P175E 13E **Reserved for future use.** Page 67

Dialler Acknowledge Code

P175E 14E **Voice/Domestic Acknowledge Code** - Value 1-4 digit code (1-9999) (Default = 0) Page 67

Force Test Call Code

P175E 15E **Force Test Call Code** - Value 1-4 digit code (1-9999) (Default = 0, Feature disabled) Page 67

Programming Voice Board Messages

P176E 1E **Keypad or Radio "Panic" Alarm Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 2E **"Fire" Alarm Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 3E **"Medical" Alarm Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 4E **"Mains Failure" Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 5E **"Mains Restore" Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 6E **"Battery Low" Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 7E **"Battery Restored" Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 8E **"Tamper" (Zone/Radio/System) Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 9E **"Duress Alarm" Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 10E **"Latchkey Disarm" Voice Message Number -** Value 0-99 (Default = 0) Page 67
P176E 11E **"Manual Test Initiated" Voice Message Number -** Value 0-99 (Default = 0) Page 67

++++Telephone Numbers++++

Programming Telephone Numbers

P181E 1-8E **Programming Telephone Numbers -** Value 1-16 Digits (Default = 0) Page 68

Telephone Number Reporting Formats

P182E 1-8E **Telephone Number Reporting Formats** Page 68

(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 = Spare
10 = SIA Format
11 = SIA Slow Format

Telephone Number Reporting Options

P183E 1-8E **Telephone Number Reporting Options** Page 69

(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

Maximum Dial Attempts per Telephone Number

P184E 1-8E **Maximum Dial Attempts per Telephone Number -** Value 0-99 (Default = 20) Page 70

Dialler Reporting Options A

P186E 1-8E **Dialler Options A** Page 70

(Default = All On)

1 = Report Mains Failure
2 = Report Battery low
3 = Report Radio Battery Low
4 = Report Line Fail
5 = Report System Tamper
6 = Report Keypad Tamper
7 = Report Zone Tamper
8 = Report Radio Zone Tamper

Dialler Reporting Options B

P187E 1-8E **Dialler Options B** Page 70

(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

Dialler Reporting Options C

P188E 1-8E **Dialler Options C** Page 71

(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

Dialler Reporting Options D

P189E 1-8E **Dialler Options D** Page 71

(Default = 3,4,5

1 = Report Latchkey Disarm
2 = Report Delinquent
3 = Report Tests
4 = Report Fuse Failure
5 = Report Output 1 or 2 Fail
6 = Report RTC Time changed
7 = Report Keypad Buss Trouble
8 = Report RF Interference (Jamming) Detected

SIA Alarm Report Codes

(SIA event codes are entered by programming a value from the chart on Page 115. For example, to send the SIA "Panic Alarm" code when a keypad panic is generated you must enter a value of "6" at location P197E1E)

Zone Alarm SIA Reporting Codes

P196E 1-64E **Zone Alarm SIA Reporting Code -** (Default value = 1, Alarm Event Code BA) Page 73

"Panic" Alarm SIA Reporting Code

P197E 1E **"Panic" Alarm SIA Reporting Code** - (Default value = 6, Panic Alarm Event Code PA) Page 73

"Fire" Alarm SIA Reporting Code

P197E 2E **"Fire" Alarm SIA Reporting Code** - (Default value = 4, Fire Alarm Event Code FA) Page 73

"Medical" Alarm SIA Reporting Code

P197E 3E **"Medical" Alarm SIA Reporting Code** - (Default value = 5, Medical Alarm Event Code MA) Page 73

Panel Diagnostic & Default Options

Display Panel Software Version Number

P200E 1E **Display the Panel Software Version Number** Page 73

Display Keypad Address Number

P200E 2E **Display Keypad Address Number** Page 73

Display Areas Assigned to this Keypad

P200E 3E **Display Areas Assigned to this Keypad** Page 73

Display Active Time Zones

P200E 4E **Display Active Time Zones** Page 73

Display Battery Voltage

P200E 5E **Display Battery Voltage** Page 73

Walk Test Mode

P200E 6E **Walk Test Mode** Page 73

Update "Firmware" to LCD KP, Zone and Output Expanders

P200E 7E **Update "Firmware" to LCD KP, Zone and output Expanders** Page 74

Update "Text Files" to LCD Keypads

P200E 8E **Update "Text Files" to ALL LCD Keypads** Page 74

Restore User & Installer Codes plus Telephone Numbers to Defaults

P200E 9E **Restore User/Installer Codes & Telephone #'s to Default Values** Page 74

Restore All Factory Defaults

P200E 10E **Restore All programmed data back to Factory Defaults (excludes LCD text)** Page 74

Clear Alarm Memory Buffer

P200E 11E **Clear Alarm Memory Buffer** Page 74

Default All LCD Text

P200E 12E **Default ALL LCD text.** Page 74

Read RSSI from Pendants and Wireless Zones

P200E 14E **Read RSSI from Pendants and Wireless Zones** Page 74

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

Panel IP Address

P201E 1E **Control Panel IP Address** Page 75
(Can also be viewed by pressing the number "9" for 5 seconds in normal mode)

IP Gateway Address

P201E 2E **IP Gateway Address** (Default = 000.000.000.000) Page 75

IP Subnet Mask

P201E 3E **IP Subnet Mask** (Default = 255.255.255.000) Page 75

IP Setup Options

P201E 4E **IP Setup Options** (Default = All Off) Page 75

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 = Spare
6 = Spare
7 = Spare
8 = Spare

Show Panel MAC Address

P201E 5E **Show Panel MAC Address** Page 76
(Can also be viewed by pressing the number "8" for 5 seconds in normal mode)

CSV IP Name

P201E 6E **CSV IP Name** Page 76

CSV IP Password

P201E 7E **CSV IP Password** Page 76

Alternative Gateway

P201E 8E **Alternative (Secondary) Gateway** (Default = 000.000.000.000) Page 77

Primary DNS Server

P201E 9E **DNS 1** (Default: 8.8.8.8) Page 77

Secondary DNS Server

P201E 10E **DNS 2** (Default: 8.8.4.4) Page 77

P201E	**11E**	**NTP 1** (Default: 0.nz.pool.ntp.org)	Primary Time Server Page 77
P201E	**12E**	**NTP 2** (Default: 1.nz.pool.ntp.org)	Secondary Time Server Page 77
P201E	**13E**	**Serial over IP Port** (Default: 9000)	Serial over IP Port Page 77
P202E	**1-8E**	**IP Reporting Poll Timer (0-9999 minutes)**	IP Reporting Poll Timer Page 77
P203E	**1-8E**	**Monitoring IP Reporting Number/URL (000.000.000.000)**	Monitoring IP Reporting Number/URL Page 77
P204E	**1-8E**	**IP Reporting Port Number**	IP Reporting Port Number Page 77
P205E	**1-8E**	**IP Reporting Poll Event Code**	IP Reporting Port Number Page 77

SPECIAL KEYPAD OPERATING FEATURES

ARMING or DISARMING MULTIPLE AREAS at a KEYPAD

If the panel is configured for Multiple Areas and the option “ARM” button required before code is turned on (P45E Option 1 for each Area), there are a number of possible arming options.

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

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

If a user code is assigned to multiple areas and the keypad being used is also assigned to the same multiple areas, plus the ARM button is assigned to the same Areas (P74E), pressing <ARM> <CODE> <ENTER> will put the keypad into a “Ready to Arm” state. On the LCD keypad the display will show “Area/s to Arm” “X Y Z . .” (where X, Y, Z, . . equal the area numbers), and on the Icon LCD keypad the zone indicators will show the assigned area numbers.
If you press the <ENTER> button now, all displayed areas will arm. If before pressing the enter button you wish to deselect one, or a number of the allowed areas before arming you can enter the two digit area numbers corresponding to the areas you don’t want to arm eg if Areas 1, 2, 3 & 4 were displayed but you only wanted to arm Areas 1 & 2 you can enter in 03, 04 to deselect areas 3 & 4 then press the <ENTER> button to arm the remaining areas (which in this case will be Areas 1 & 2).

If you don’t do anything following pressing <ARM> <CODE> <ENTER> the panel will proceed with arming all displayed Areas after 10 seconds time has elapsed.
On disarming, after entering <CODE> <ENTER> the display on the LCD keypad will show “Area/s to Disarm” “X Y Z . .” (where X, Y, Z, . . equal the area numbers), and on the Icon LCD keypad the zone indicators will show the assigned area numbers.
You can press the <ENTER> button at this point to disarm all areas. If before pressing the enter button you wish to deselect one, or a number of the allowed areas before disarming you can enter the two digit area numbers corresponding to the areas you don’t want to disarm eg if Areas 1, 2, 3 & 4 were displayed but you only wanted to disarm Areas 3 & 4 you can enter in 01, 02 to deselect areas 1 & 2 then press the <ENTER> button to disarm the remaining areas (which in this case will be Areas 3 & 4).
If you don’t do anything the panel will proceed with disarming all displayed areas after 10 seconds time has elapsed.

LCD QUICKVIEW MODE

If any zones are unsealed when disarmed the LCD keypad will scroll through each unsealed zone displaying the 20 character name for each zone. If a number of zones are unsealed simultaneously it can take sometime for the display to show all of the unsealed zones.
By pressing the <È> button when zones are unsealed the keypad will enter the “Quick-view” mode. When in “Quick-view” mode, each unsealed zone is displayed as a single two digit number eg “01 05 10”. Up to 7 unsealed zones maybe displayed at one time. If more than 7 zones are unsealed at the time the display will scroll to the next bank of 7 zones so the user can see quickly which zones are unsealed. If more than 7 zones are unsealed and the keypad enters “Quick-view” mode by pressing the <È> button, you can force the display to mode to the enxt bank of zones by pressing the <È> button again. To exit “Quick-view” mode you simply press the <ENTER> button or the keypad will time out automatically in approximately 10 seconds.

TOGGLE CHIME MODE ON/OFF

On the LCD Keypad there is a “CHIME” button. Pressing and holding that button for two seconds will toggle Chime Mode from On-Off or Off-On.
When “CHIME” mode is off any day zones in the same area associated with the keypad area will be disabled.

SEND MANUAL TEST CALL

If the panel is configured for Contact ID reporting and test calls are programmed to report, you can force a manual test call by pressing and holding <CONTROL> followed within 2 seconds by <0>. This will cause a manual test call to be sent to the monitoring company.

The default settings of this panel have been chosen to allow the system to be up and running with a minimum of programming.

Because of this there are normally only a handful of program addresses that need to be changed to get the system fully functional.

As a guide to getting the system up and running as quickly as possible we have summarised the most commonly used addresses for you below.

CODES:

P1E **1-2000E** Code 1 is P1E1E and is defaulted to "123". Code 2 is P1E2E, etc up to P1E2000E for code 2000.

ENABLE DIALLER:

P175E **1E** By default the Dialler is turned Off. To turn On the dialler you must turn on Option 1 at address P175E1E.

TELEPHONE NUMBERS:

P181E **1-8E** Telephone Number 1 is P181E1E and can be up to 16 digits long. Number 2 is P182E2E, etc up to P181E8E for Phone number 8.

TELEPHONE FORMAT:

P182E **1-8E** There are 9 different reporting formats that can be selected for each telephone number. The formats are listed on page 108.

ACCOUNT CODE:

P62E **1-32E** Area "1" Account code is P62E1E and Area "2" Account code is P62E2E up to P62E32E for Area "32" Account code. Alternatively only Area 1 account code will be used and a group number will be sent to identify each Area separately (see P183E option 4).

ARMED ENTRY DELAYS:

P144E **1-64E** Zone 1 entry delay is P144E1E and can be a value of 0-9999 seconds through to Zone 64 entry delay being at address P144E64E. A value of "0" makes the zone instant.

STAY ENTRY DELAYS:

P145E **1-64E** Zone 1 entry delay when armed in "Stay" Mode is P145E1E and can be a value of 0-9999 seconds through to Zone 64 Stay Mode entry delay being at address P145E64E. A value of "0" makes the zone instant.

ARMED EXIT DELAY:

P60E **1-32E** Area 1 exit delay is programmed at P60E1E, Area 2 at P60E2E and can be a value of 0-255 seconds. A value of "0" makes the area arm instantly with no exit delay.

STAY EXIT DELAY:

P61E **1-32E** Area 1 Stay Mode exit delay is programmed at P61E1E, Area 2 at P61E2E and can be a value of 0-255 seconds. A value of "0" arms Stay Mode instantly with no exit delay.

USER PRIVILEGES CHART

Program Location	P5E Options:	1	2	3	4	5	6	7	8
	Option 8: Can force download								
	Option 7: Learn new radio devices								
	Option 6: Change DTMF command								
	Option 5: Change clock								
	Option 4: Change phone numbers								
	Option 3: Full access								
	Option 2: Change others codes								
	Option 1: Change own code								
P1E	User codes	X	X	X					
P2E	User type			X					
P3E	User areas			X					
P4E	User access			X					
P5E	User privileges			X					
P7E	User pendant type			X					
P8E	User radio privileges			X					
P9E	User time zones			X					
P18E	Learn radio user							X	
P19E	Delete radio user							X	
P20E	Find radio user							X	
P21E	Learn access Tag/Card user							X	
P22E	Delete access Tag/Card user							X	
P23E	Find access Tag/Card user							X	
P25E12E	User options (hide user codes to installer)		X						
P26E (all)	Time/Date and Daylight Savings					X			
P170E	Change Holidays					X			
P63E	Area A & B Command Code						X		
P164E	Learn radio zone							X	
P165E	Delete radio zone							X	
P166E	Find radio zone							X	
P175E3E	Auto-answer rings				X				
P175E4E	Time to first test call				X				
P175E5E	Test call period				X				
P175E8E	Dial prefix				X				
P175E12E	Output DTMF command control code						X		
P175E13E	Microphone DTMF command control code						X		
P175E14E	Voice/Domestic DTMF acknowledge code						X		
P175E15E	Remote test initiate DTMF code						X		
P181E	Telephone numbers				X				
P194E	Divert telephone numbers				X				
P200E1E	Display panel version #		X	X	X	X	X	X	X
P200E2E	Display keypad address		X	X	X	X	X	X	X
P200E3E	Areas assigned to this keypad		X	X	X	X	X	X	X
P200E4E	Display active time zones		X	X	X	X	X	X	X
P200E5E	Display battery voltage		X	X	X	X	X	X	X
P200E6E	Enter walk test mode							X	

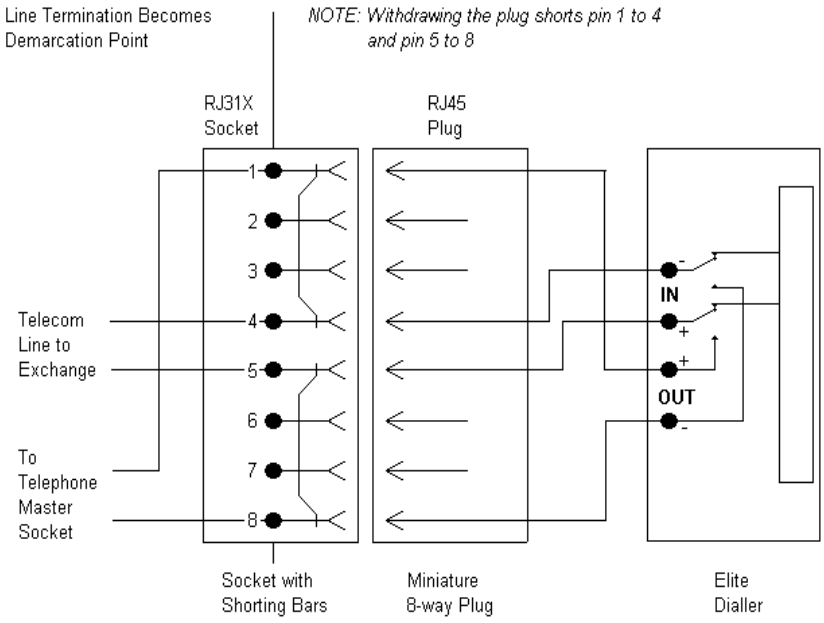
TELECOM INTERFACE

The dialler facility on this controller has been designed to provide optimum flexibility in the way in which alarm events are reported. This flexibility includes options for reporting to a central monitoring station using Contact ID format, a Domestic reporting option using alternating siren tones, a format for reporting alarms to an alpha numeric pager and a powerful Speech Dialler.

In accordance with the statutory requirements of the Telepermit standards we must bring the following points to your attention;
A readily accessible disconnect device shall be incorporated into the 230V fixed wiring.
In the event of any problem with this device, the by-pass switch should be operated. The user is to then arrange with the installer of the device to make the necessary repairs. Should the matter be reported to Telecom as a wiring fault, and the fault be proven to be due to the alarm panel, a call out charge will be incurred.

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

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



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

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

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

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

Contact ID Reporting Code Summary

In addition to the programmable Contact ID Event Code assignments defined at P157E, P158E, P159E, P175E (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 064	Alarm on Zone 1-64
Zone Tamper - Low (short circuit)	383	001 to 064	Zone Input 1-64 short circuit
Zone Tamper - High (open circuit)	383	009 to 064	Zone Input 1-32 open circuit
Zone Tamper - Radio Zone	383	001 to 064	Radio Zone 1-64
Zone Near Alarm	138	001 to 064	Zone Input 1-64
Zone Confirmed Alarm	139	001 to 064	Zone Input 1-64
Radio PIR / Reed Switch Battery Low	384	001 to 064	Radio Zone 1-64
Radio PIR Supervised Alarm	381	001 to 064	Supervised Radio Zone 1-64
Sensor-watch Alarm	391	001 to 064	Zone 1-64
Zone Excludes	570	001 to 064	Exclude Zone 1-64
Keypad Panic (or 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
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	312	000	Fuse 1 or 2 Fail
Radio-key Battery Low	384	101 to 998	Radio-key User #101-2000 low batt.
Radio-PIR / Reed Switch Battery Low	384	001 to 064	Radio Zone 1-64
Automatic TEST Calls	602	000	24 hour test
Manual TEST Calls	601	000	User generated Test Call
Phone Line Failure	351	000	Reported when line is restored
IP Communication Failure	351	002	Reported when IP Comms restore
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

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 (1-64E) 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 above at any of the addresses at P196E or P197E then all of the SIA codes associated with that event type will automatically be loaded, eg if Zone 10 (P196E10E) was programmed with a “4”, then when zone 10 activates it will send the fire alarm (FA) and the fire alarm restore (FH) and if zone 10 was bypassed it will send the fire bypass (FB) and the fire un-bypass (FU).

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	-	-

RUNNER 8/64 Software update schedule

V193- Date 15-06-2016

At software version V193 the program option P200E12E was added. This option defaults any custom LCD text information back to the factory default settings and sends the defaults to any LCD keypads connected to the panels keypad bus.

V225 - Date 08-11-2016

At software version V225 the a new selective arm/disarm when multiple areas are assigned to a user was added to make it more flexible. The new feature is enabled by turning on option 6 at P25E13E. If "ARM Before Code" is selected (P45E option 1 ON) and all areas assigned to a user are also assigned to their keypad (P71E) and the ARM button (P74E) then when that user enters ARM - CODE - ENTER they will be presented with a list of areas to arm. The lowest of these areas will be selected by the >< symbols eg, **>01<.** When the selected area is in bold that means it is ready for arming. If the ARM button is pressed the selected area number will not be in bold indicating that area will not arm eg >01<. Below this selection line will be the customised text name for the currently selected area (eg if area 1 was named "Reception PIR" that name will appear underneath the selected area number). To select another area the right arrow (BYPASS button) will move the selection to the right and the left arrow will move it to the left. By default all assigned areas will be in bold meaning they are all going to arm. If the user wants to reverse that selection so that all areas are not in bold (eg none will arm) they can press 00. To change it back the user can press 99 to select ALL areas again. If a user has a large number of areas assigned but they only want to arm a few of them they can press 00 to deselect all areas then use the "ARM" button to select the few they want to arm. If they want to arm most of the areas but exclude just a few they would start off with all areas selected (99) then simply deselect the few they don't want using the "ARM" button. Once the selection has been made they simply press the ENTER button to arm the selected areas. The same situation works for disarming only the user presses CODE - ENTER and they are presented with a list of areas to disarm. The selection toggle with the "ARM" button and the 00 & 99 functions work the same during disarm.

V225- Date 08-11-2016

At software version V225 an "Arm on No Activity" option was added. There are two ways to achieve that.
1- The area can be assigned a time zone (P68E) and programmed to arm when the time zone ends (P46E option 2 ON). This ensures the area will not start to arm before the time zone ends.
2– The area can be set to arm at any time when there is no activity. For this option there should be no time zone assigned to the area (P68E) and options 2 & 3 at P46E should be OFF. A new option 8, "Arm on no Activity", has been added at P46E. When option 8 is turned ON the area will arm after a programmed period of no activity.
Other new options are:
P4071E - 0-255 minutes (Note: must be a 4 digit entry). This is the activity timer. Every zone trigger will extend this timer. Only after a period of no activity will this timer expire. This timer holds off arming while active.
P4072E - 0-255 seconds (Note: must be a 4 digit entry). This is the arming pre-alert timer. When the timer at P4071E expires this pre-alert timer will start. It is used to sound keypad buzzers (P58E) or alarm outputs (P65E) locally to alert the occupants that if a zone is not triggered the panel will arm. Any zone trigger while this pre-alert timer is running will stop the pre-alert warning and start the activity timer again. When this timer expires the area will begin it's normal exit delay. When the exit delay has started no activity will prevent the panel from arming.
P6133E - Zone options D

Option 1: ON =Zone is excluded from Activity Monitoring.
OFF= Zone is included in Activity Monitoring (Default)
Option 2: ON = Zone will hold off arming until sealed (eg reed switch on a door)
OFF = Zone will restart Inactivity Timer when unsealed (Default)

P37E - Option 6: Pulse output on exit delay (P65E) to output. This changes the exit delay signal on the output from being a constant output to a pulsed output at the pulse timer rate.

Special Output Conditions for auto-arming Pre-alert and Exit delay indications.
If an output has exit delay to output programmed (P65E) it will indicate when the Pre-alert timer (P4072E) and the exit delay (P60E) are active. For the Pre-alert indication the output will turn on for 1 second and off for 5 seconds repeating until the timer expires. When the exit delay is active the output will turn on continuously until the delay expires however if option 6 at P37E is turned on the output will pulse at the pulse

timer rate (P39E) until the exit delay has finished. These options allow the Pre-alert and exit delay to be identified as separate conditions.
Outputs 1 & 2 have additional special functions when set to siren outputs (P37E option 1 ON). When output 1 or 2 are set to be a siren output, with an 8ohm speaker attached, they will sound a 1khz tone during the pre-alert timer period (on for 1 second, off for 5 seconds) and pulse the 1khz tone at the pulse timer rate during exit delay. These two audible indications are controlled by the volume setting (P33E) so the sound can be set to a comfortable level. If an alarm occurs using the same output the siren tone will be at full volume. Finally to further differentiate between the pre-alert and exit delay indications the door bell chime can be programmed at P36E option 7 and that will play during the pre-alert time (once again with the volume settings applied) changing to the pulsed 1khz tone for the exit delay

V233 - Date 02-12-2016
Normally if a trouble alarm is created (eg a code tamper when the wrong code is entered more than 4 times) the trouble will occur for every area associated with the keypad. In the case of a code tamper if the alarm was created at a keypad assigned to 10 areas each of those areas will have a code tamper trouble. If the code tamper trouble is reset by a user assigned to all 10 areas then all trouble alarms will be reset but if not some trouble alarms will still exist until reset in all areas. This is useful when there are many areas but very little sharing across areas but when there is a lot of shared areas it can be desirable for any valid code to be able to reset the trouble alarms in all areas. If option 4 at P25E10E is turned ON this can now happen. Additionally another new option 1 at P6E has been added to allow certain users to be excluded from this global alarm reset function. If option 1 is OFF the user can reset all trouble alarms provided option 4 is ON at P25E10E but if option 1 at P6E is ON the user can only reset trouble alarms that are created in their assigned areas.

V240 - Date 31-01-2017
The maximum program value of the output chime timer (P41E) was increased from 255 to 9999 to allow the timer to run for nearly 17 minutes instead of the previous maximum of 25.5 seconds. At the same time option 2 at P37E was linked to the Chime timer only, the reset time is not affected by this option any longer.

V242 - Date 15-02-2017
There was a bug if using Patriot IP format (P82E option 6). The restore events were being sent as a new event. This was fixed in V242.

V246 - Date 28-02-2017
A number of new features have been added at this firmware update. They are:

1 – A new zone type “security Interlock” zone has been added at program option 3 at address P6133E. The “security Interlock” zone is designed to monitor a door leading to a room containing a safe or strong-room. It would normally only be programmed to one area at P121E and that area will be controlled by the “security Interlock” zone. If the “security Interlock” zone is unsealed the associated area will be armed. The area can only be disarmed when the “security Interlock” zone is sealed. The area would be used to control the electronic locking of the safe or strong-room door by using an output set to follow the disarm state (P49E) of the area. If the area is armed the electronic door will be locked, if disarmed it will be unlocked.

2 – A new area disarm timer (P4073E) has been added. If a value other than 0 is programmed at P4073E the area will not disarm until the timer has expired, eg if a value of 30 was programmed then when the area is disarmed a 30 second countdown will happen that delays the disarm until the timer expires. While the timer is counting down the keypad will show “Access Countdown” and the display will show the delay counting down in 1 second intervals with the keypad also beeping every second. The delay can be programmed from 0-9999 seconds. It is intended as a deterrent for robberies. If the countdown is happening and the “security Interlock” zone is unsealed the countdown will stop immediately and the area will remain in the armed state (and hence the safe or strong-room door will remain locked).

3 – A new extended area disarm timer (P4074E) has been added. This “In Alarm” timer is designed to delay the unlocking of the safe or strong-room door for an extended period. The timer can be programmed from 0-9999 seconds. This timer would typically be set to a value of 900 seconds (15 minutes). The timer is triggered when a 24 hour zone in the same area is triggered (eg a panic button) or if the area is disarmed under duress. If security staff can see that a robbery is in progress they can trigger the panic button which in turn will cause the normal area disarm timer (P4073E) to be replaced with the “In Alarm” disarm timer (P4074E). If the potential robber is faced with a 15 minute wait before the safe can be opened it should force them to

abort the robbery. The same will happen if a staff member is forced to disarm the area and they use the duress code, the “In Alarm” disarm timer will be triggered.

4 – When using CSV IP reporting a name and password can be prefixed to the beginning of the alarm report. The Name is programmed at program location P201E6E and the Password is programmed at location P201E7E. The text is entered in the same way that keypad zone, user, area names are programmed.

5 - A new address P25E15E with a value of 0-255 has been added. An invalid webpage login attempt count can be set at this address. If 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. Using a valid code at the panel keypad to arm/disarm the panel will reset this count.

6 - A new address P25E16E with a value of 0-9999 has been added. If an invalid webpage login count is set at P25E15E and that count is exceeded the webpage access will be locked out for the period set at this address. If this address is set to 0 there is no lockout time. If set from 1-9999, that is the time in seconds that all webpage access will be locked out for. Using a valid code at the panel keypad to arm/disarm the panel will reset this time.

7 - A new option called “IP Fail (Timed)” has been added at P36E option 8. f IP Monitoring is being used and the panel fails to report a signal or a poll it will enter a “Comm Failure” state and the output will turn on. The output MUST have a reset time programmed at P40E as it needs a reset time to allow the output to reset after being triggered.

V257- Date 19-04-2017

At software version V257 some new features were added. They are:
1 - The IP monitoring addresses (P203E1-8E) can now be an IP address or a URL (web name). When entering in a URL at the LCD keypad the letters (all lower case), and numbers, are entered in exactly the same way that LCD text for zones, outputs, areas, etc, is entered. The number 1 key can be used to enter in a “1”, or “.” or “-” in the URL or IP address.
2 - The panel can now support a secondary gateway address (P201E8E). This can be useful if there is a land based internet that could be subject to service interruption, a secondary cellular gateway could serve as a back up.
3 - A primary and secondary DNS server address has been added, P201E9E and 10E.
4 - Two internet clock URL’s have been added, P201E11E and 12E. The panel can be told to sync it’s time to the internet time by turning On option 3 at address P210E4E.
5 - When using the internet time a time zone can be selected at address P25E17E.

V258- Date 21-04-2017

At software version V258 a new feature was added. There is a new option 5 at P25E13E called “Keypad LED’s and Backlight off on no activity”. If there is nothing happening on the system, eg no zone activity, the LED’s on all keypads and all the backlighting will turn off. This is particularly suited for keypads that might be mounted in a bedroom. If a zone triggers the LED’s will turn on for 10 seconds then turn off again.
We also changed how the 24 hour zone restore happens. If a 24 hour zone triggers then restores immediately the restore will be sent to monitoring when it restores. If the zone stays in alarm the restore was sent when the alarm was reset at a keypad but now the restore will only be sent when the zone actually restores.

V260- Date 18-05-2017

When an output is controlled by a Time Zone the “Control” button was able to override the output from a keypad as long as the keypad (P83E) and the output (P34E option 7) were programmed to do this . When the output number was manually entered (eg <CONTROL> <05> <ENTER>) the user could turn the output ON or OFF. The same was supposed to happen if the CONTROL button was programmed as a single button operation at the keypad (see P96E option 8) but using the CONTROL button this way would only turn the output ON, not OFF. This has been corrected in V260 so the CONTROL button when set to single button operation will toggle the output from ON to OFF or from OFF to ON.

V261- Date 22-06-2017

There was a bug when reporting using Patriot IP (type 6 at P182E). The zone/user field should be 3 digits with a spacer digit added after that but the spacer digit was added at the front of those 3 digits which made the zone/user field incorrect. That has been fixed in this version. Also the event code sent for output expander tamper was 354 which is incorrect. The panel now sends a 341 event code.

V268- Date 28-08-2017

There have been some new access control features added.

The first is an access door monitoring input, **P6174E**. If the value is set to 0 for the selected zone then the zone will work as a normal zone. If a value of 01-32 (linked output number) is programmed at this address the zone now becomes a dedicated access control door monitoring input linked to the programmed output, eg if output 10 was programmed for zone 20 (P6174E20E10E) that means zone 20 will monitor the state of output 10. If zone 20 is unsealed when output 10 is not active (ie no valid access activity) a door forced alarm will be created. If zone 20 is unsealed but output 10 is active (which can only happen with a valid card access) then no alarm will be created but if zone 20 is still unsealed when output 10 is inactive (the door should now be closed) a door forced alarm will be created. When zone 20 is sealed all alarms will reset automatically however if monitoring is enabled the reports will still be sent.

The two new alarms "Door Forced" and "Door Left Open too Long" can be assigned to sound at a keypad or operate an output. The new option **P6177E** allows the "Door Open Too Long" alarm to be assigned to a keypad buzzer and the new option **P6178E** allows the "Door Forced" alarm to be assigned to a keypad buzzer. The new option **P6179E** allows the "Door Open Too Long" alarm to be assigned to an output and the new option **P6180E** allows the "Door Forced" alarm to be assigned to an output.

Still associated with the new access control feature is a new set of zone options at **P6175E**.

Option 1 - If turned ON it will make the zone an access door monitoring input. It will create a door forced alarm if the output programmed at P6174E is not active when the input is unsealed and create a door left open too long alarm if the output programmed at P6174E becomes inactive while the door is still open.

Option 2 - If turned ON it sets the input to become a REX (Request to Exit) button linked to the programmed output at address P6174E. When the zone is unsealed it will trigger the reset time for the programmed output.

Option 3 - If turned ON it sets the input to be an Egress Input. The egress input could be connected to a switch that opens the associated door (eg a door override switch in reception). When the Egress Input is triggered the output programmed at address P6174E will turn on, releasing the door. The output will remain on once triggered. There are two ways to reset this state. The first is the output will turn off as soon as the input is sealed again provided option 3 is turned on at the new program location **P6176E**. If option 3 at **P6176E** is off the output will latch on and must be reset by a valid user code. Only user codes with **option 7** on at address **P4E** can reset an Egress input.

Option 4 - If turned ON it sets the input to be a Global Fire Egress Input. When the Global Fire Egress Input is triggered it will turn on all outputs associated with zones (P6174E) that are set to type 1-5 at address P6175E. The outputs will remain on once triggered until either the input resets or a code is entered. Whether the outputs auto-reset or latch on can be set at the new program location **P6176E**. If option 3 at **P6176E** is off the outputs will latch on and must be reset by a valid user code. Only user codes with **option 7** on at address **P4E** can reset a Global Fire Egress input. If option 3 is on the outputs will reset as soon as the input seals.

Option 5 - If turned ON it sets the input to be a Global Egress Input. When the Global Egress Input is triggered it will turn on all outputs associated with zones (P6164E) that are set to options 3, 4 or 5 at address P6175E. The outputs will remain on once triggered until either the input resets or a code is entered. Whether the outputs auto-reset or latch on can be set at the new program location **P6176E**. If option 3 at **P6176E** is off the outputs will latch on and must be reset by a valid user code. Only user codes with **option 7** on at address **P4E** can reset a Global Egress input. If option 3 is on the outputs will reset as soon as the input seals.

The new options at address **P6176E** are:

Option 1 - If turned ON it will report "Door Forced" and "Door Left Open too Long" alarms as the output number at P6174E not the zone number.

Option 2 - If turned ON the zone will not appear in the zone list on the panel status web page.

Option 3 - If turned ON any Egress inputs programmed at address P6175E will turn the outputs off when the input seals. If this option is off any outputs turned on by an Egress input MUST be reset by a valid user code.

Any access door alarms, eg Door Forced or Door left open too long, can cause keypad buzzers to beep the alarm and/or outputs to turn on when in alarm via programming addresses **P6177E, P6178E, P6179E** and **P6180E.**

The 24 hour Non-Latching zone type (P123E option 4) has been modified. Now the option is called a "Non-latching" zone. If option 4 is turned on the zone will only activate when the associated area is armed but it will

reset automatically when it seals (just like the 24 Hour Non-latching option only when disarmed it will not activate). By turning on Options 3 & 4 at P123E a 24 Hour Non-latching alarm is enabled and it will work as it did previously. Also 24 hour zones reported as the incorrect zone number (the actual zone –1), this has now been fixed.

A new **option 2** has been added at address **P174E.** When option 2 is turned ON it marks the timezone as dormant until woken by a user code or tag. An example is the front door of a building is set to automatically unlock at the start of a timezone and lock when it ends. If the timezone is set to a dormant type the door will not unlock until a valid user has accessed the building. Once the valid user has accessed the building the door will unlock and remain unlocked until the timezone ends. Valid users are selected at the new program location **P1032E.** A user is assigned to a timezone at P1032E and if that timezone is set to be dormant it will not start until the user accesses the building.

Also when learning radio users, user tags or radio zones the right arrow would not allow access to the next sequential user or zone, that has now been fixed.

Finally on the RUNNER 8/64 web page there is the status page that shows assigned areas, zones and outputs. Previously only the generic names appeared, eg area 1, zone 1 & outpu1, but now if custom names have been programmed at addresses P31E, P69E & P169E they will appear beside the generic names.
There is also the activity page (memory events) which only showed the generic names for users, areas, outputs, zones and keypads but now any custom names will also appear in the activity log along with an abbreviated description of the device or user number in program mode, eg user 1 activity would appear as (U1)John Smith to show both the user number and the custom name. If the user/zone/area/output and key-pad number information is not wanted, eg (U1, A1, O1, K1, Z1), then turning on option 8 at P25E18E will stop that information from being displayed.

V270- Date 30-08-2017
The output reset time **P40E** has been increased from a maximum value of 9999 to 65535 seconds to allow for longer output timing.

V271- Date 04-08-2017
If the panel is restarted following a firmware or configuration update and outputs were supposed to be turned on by a schedule they would not come on automatically if the schedule was active. This was changed at V263 to accommodate another feature but the auto-reinstatement of scheduled outputs at power up has been added back in again.

V282- Date 24-11-2017
The options 3 & 4 at P72E allow the arming and stay arming to be turned off at any keypad. When arming was inhibited at a keypad by turning off one of these options the disarming would still function. Two options have been added at a new program location P5070E. Option 1 enables Away mode disarm at the keypad and Option 2 enables Stay mode disarm at the keypad. This now allows user codes and/or access tags to be able to only arm or only disarm at certain keypads. In sites where there is an entry reader/keypad and an exit reader/keypad the entry keypad can be set to disarm only and the exit keypad can be set to arm only. Also when using an access tag or entering a code at a prox reader if the tag or code was valid the keypad would produce a long error beep instead of the correct 3 short beeps. Now a valid tag or code will produce 3 short beeps and an invalid tag/code will produce a long error beep.

V288- Date 18-01-2018
The panel can now support serial over IP for connection to central controllers and automation systems. There is a new option at address P201E4E option 4. When turned on serial over IP (Ethernet port) is en-abled. The serial IP port is programmed at address P201E13E. Normally any device making a TCP/IP con-nection on the nominated port can communicate with the panel and receive the serial monitoring signals and control the panel by sending the serial commands (see the RUNNER 8/64 serial over IP document for the list of signals and commands). An additional authentication can be added. If option 3 at P25E18E is turned on the serial over IP connection will require sending of a user name and password to authenticate the con-necting device before communications will be established. The user name (16 characters max) is pro-grammed at P25E19E, the password (16 characters max) is programmed at P25E20E and there is a serial user timeout (in seconds) that is programmed at P25E21E.

12 Kineret Street.
Airport City, 70100 Israel

Tel. +972 3 9726000
Fax. +972 3 9726001

sales@crow.co.il
support@crow.co.il

www.thecrowgroup.com

These instructions supersede all previous issues in circulation prior to March 2018