

PowerWave 64 Version **1**
64 Zone Wireless Control/Communicator

Arrowhead
Alarm Products Ltd

Installation & Programming Guide

Proudly Designed and Manufactured in New Zealand

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This manual relates to the Arrowhead PowerWave 64 wireless alarm control panel software version V1.05 and above.

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INTRODUCTION

The PwerWave 64 Wireless 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 PowerWave 64 is a New Zealand designed and built product which brings you the quality and features which you deserve at an affordable price. In addition to the advanced design, only the highest quality components have been used in the production of this panel to ensure the highest degree of reliability.

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

PACKAGE CONTENTS

This Arrowhead PowerWave 64 (PW64) package should contain the following items;

- 1 x PW64 controller PCB
- 1 x PW64 LCD keypad
- 1 x PW64 keypad zone list
- 1 x PW64 Radio receiver card
- 1 x Speaker/Microphone and internal piezo siren
- 1 x PW64 Users Guide
- 1 x PW64 polycarbonate housing
- 1 x 17 volt 1.4a mains transformer
- 1 x Cabinet hardware accessory pack including,
 - 1 x Cabinet tamper switch
 - 1 x Battery lead set
 - 2 x Cabinet lid screws
 - 4 x 2k2 (red, red, red) end of line resistors
 - 4 x 4k7 (yellow, purple, red) end of line resistors
 - 4 x 8k2 (grey, red, red) end of line resistors

If any of these items are missing from this package, please contact the Arrowhead branch where you placed your order.

INPUT CONFIGURATIONS (ZONE WIRING DETAILS)

The in addition to the 60 wireless zones, the PW64 has 3 separate programmable monitored analogue inputs,

- 2 x Programmable, multi-state detection inputs
- 1 x Programmable tamper input

Each input must be terminated with a short or the appropriate combination of end-of-line resistors, depending upon the programmed configuration.

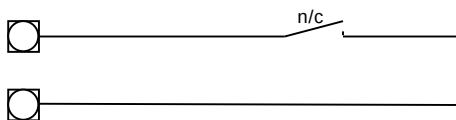
ZONE INPUTS - Each of the 2 hardwired zone inputs (Labelled 1+3 & 2+4) can be independently assigned one of the following configuration options;

- Type 1 Single Zone Short circuit input NO-End-of-Line (EOL).
- Type 2 Single Zone End-of-Line 2k2 (EOL) with no tamper.
- Type 3 Dual Zone Double-End-of-Line (EOL) No Tamper.
- Type 4 Dual Zone Double-End-of-Line (EOL) With open & short circuit Tamper.

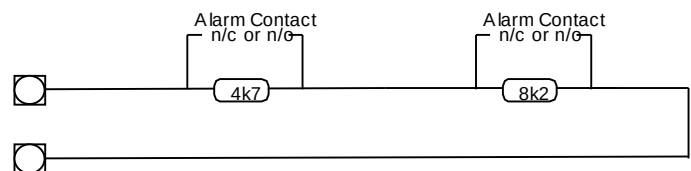
The following table shows end-of-line resistor configurations. The reference to LEDS in bold below relate to the program option setting at addresses P601E & P602E. If the EOL option at address P601E is on then it relates to the single zone being a 2K2 resistor but if zone doubling is turned on for the same input (P602E options 1&2) then EOL means that the tamper resistor is 2K2. Without zone doubling, Input 1 = Zone 61 and Input 2 = Zone 62. If zone doubling is selected zones 61 & 63 are on Input 1+3 and zones 62 & 64 are on input 2+4.

Zone Type	Low Zone	Hi Zone	Tamper
Type 1 P601E LED 6 Off, P602E LED 1/2 Off	Loop (Short circuit)	None	None
Type 2 P601E LED 6 On, P602E LED 1/2 Off	2k2	None	None
Type 3 P601E LED 6 Off, P602E LED 1/2 On	4k7	8k2	N/A
Type 4 P601E LED 6 On, P602E LED 1/2 On	4k7	8k2	2k2

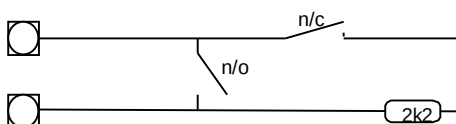
Type 1 (Short Circuit)



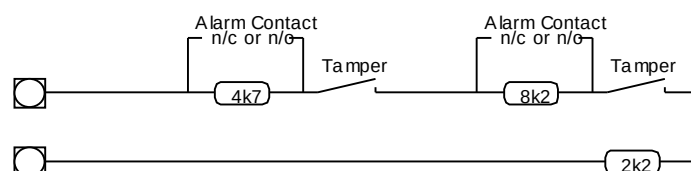
Type 3 (Dual Zones, 4k7 & 8k2 with No tamper)



Type 2 (Single Zone, 2k2, No tamper)



Type 4 (Dual Zones, 4k7 & 8k2 , 2k2 for tamper)



INPUTS Cont.

TAMPER/KEY-SWITCH - A 24Hr tamper circuit is available for monitoring tamper status of the control cabinet, external satellite sirens, etc. The tamper circuit is programmable with 2 options (P601E5E) either normally closed loop or 2k2 EOL supervision. The tamper circuit must be terminated with an end-of-line resistor if 2k2 EOL supervision is selected. The activation events to outputs for this tamper circuit are fully programmable. The tamper circuit can also double as a key-switch input. If the key-switch function is enabled for any of the Areas at addresses P531E, P631E, P731E or P831E option 1. When the key-switch is enabled, the tamper input is wired as per Type 3 or Type 4 configurations as shown on page 7. The low key-switch uses the 4k7 resistor and if selected, the high key-switch will use the 8k2 resistor.

AC - Connect the two low voltage wires (no polarity) from the transformer to the terminals marked AC on the PW64 PCB. The PW64 cabinet includes a transformer rated at 1.4 amps at 17 volts AC and incorporates an inbuilt thermal protection fuse.

EARTH - Connect the mains earth to the terminal marked with the earth symbol (beside the two AC terminals) on the PW64 PCB.

BATTERY - Connect a sealed lead acid rechargeable 12V DC battery to the battery terminals via the red and black battery leads supplied. Battery charge current at these terminals is limited to a maximum of 300ma.

LINE IN - This pair of terminals is used to connect the PW64 to the incoming telephone line from the street. The Dialler uses this line for reporting alarm events.

LINE OUT - This pair of terminals is used to connect telephones and other communication equipment to the incoming phone line via the PW64 controller. The telephone line is passed through the PW64 controller to ensure that the line is available to the controller when it is required.

OUTPUTS

12 VOLT OUTPUTS - There are three 12V DC outputs available on the PW64 PCB. They are protected by a single self resetting thermal fuse suitable for powering detectors, sirens and other external devices. These outputs are marked 12v and 0v (or POS & NEG at the keypad buss). A maximum total load of 1 amp may be drawn from these terminals.

OUTPUT 1 - This fully programmable output drives the on-board piezo siren fitted inside the main housing.
WARNIG: Do not touch the two pins labelled "Piezo" when output one is on as high voltages are present.

OUTPUT 2 - This fully programmable, high current, open drain (high-going-low) type FET output is capable of switching up to **1.5A @ 12V DC**.

OUTPUT 3 - This is a low current, open collector (high-going-low) type transistor output capable of switching no more than **500ma**. Like Outputs 1 & 2 it is fully programmable.

OUTPUT 4 - This output drives the on-board relay. The "common" terminal of the relay is connected to the three way jumper situated in between the main row of terminal blocks. If the jumper is not connected, the "common" terminal is "Clean" (has no voltage on the contact). If the jumper is on the centre and lower position the "common" terminal is connected to the +12v supply. If the jumper is on the centre and upper position the "common" terminal is connected to the 0v supply.

COMMUNICATION PORTS

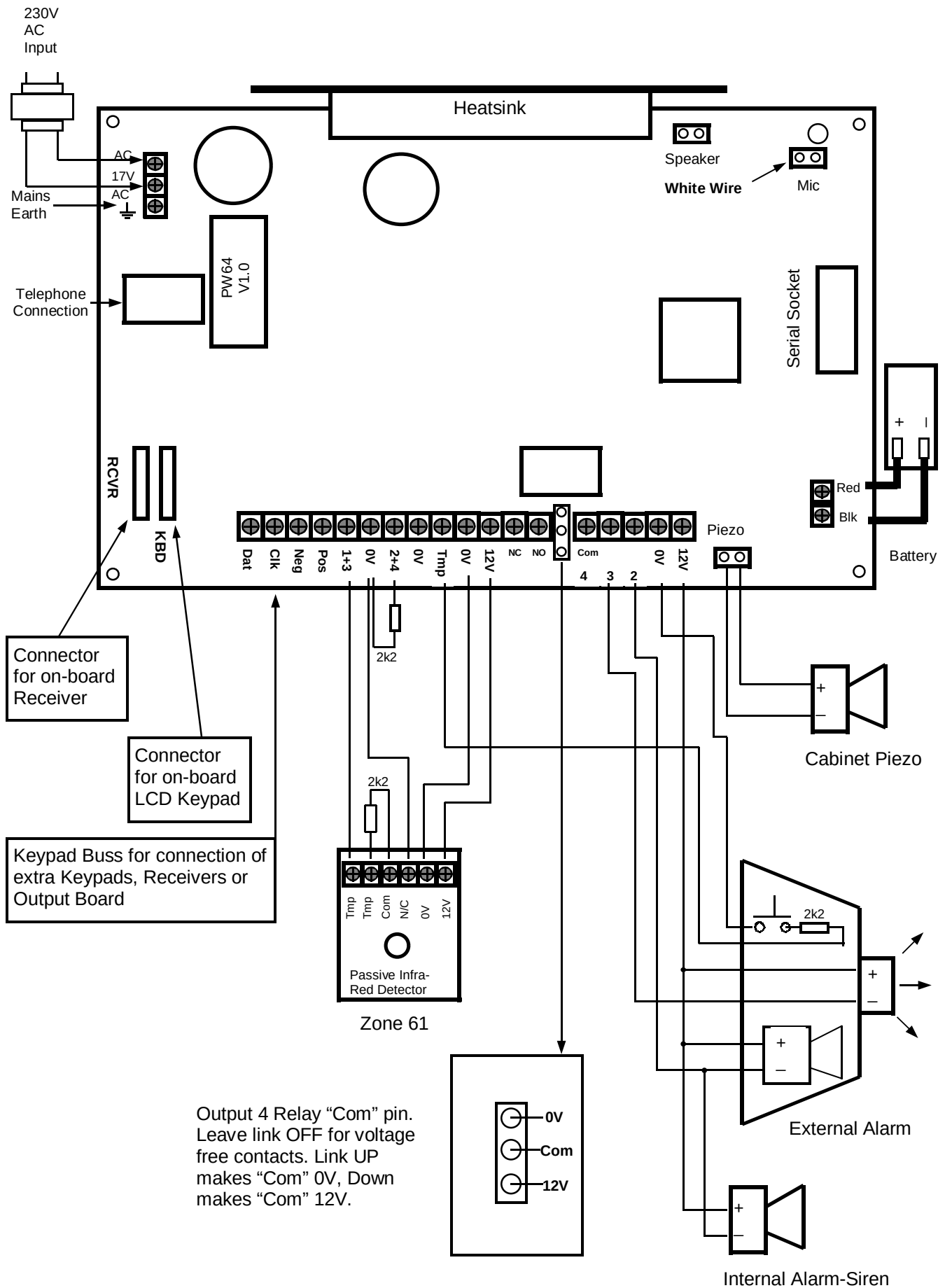
KBD Connector - The LCD keypad mounted on the lid of the PW64 cabinet is supplied with a cable that plugs into the connector labelled "**KBD**".

RCVR Connector - The Radio Receiver mounted inside the PW64 cabinet is supplied with a cable that plugs into the connector labelled "**RCVR**".

KEYPAD PORT - The terminals marked *POS*, *NEG*, *CLK*, & *DAT* are for the connection of additional keypads and receiver cards if required. There is also a relay output board with 4 relays that can be connected at this point.

SERIAL PORT - The serial port is for the connection of the RS232 serial board or the DTU (data transfer) board. The serial board allows for printing of the 255 event buffer to a serial printer or for PC direct up/down load connection. The DTU board to allows program back-up and re-instatement.

PCB WIRING INSTRUCTIONS



PW64 LCD KEYPADS

KEYPAD FUNCTIONS

The PW64 LCD Keypad consists of 21 backlit silicon rubber buttons, 2 line x 16 character LCD display and an internal piezo buzzer housed inside the PW64 white plastic housing.

Additional slim-line LCD keypads can be hardwired to the panel, if required, via the keypad buss terminal blocks labelled Pos, Neg, Clk & Dat.

BUTTONS

The 21 silicone rubber buttons are used for the following functions;

- a-In normal operating mode the numeric keys are used for entering Access Codes. In Program Mode the numeric keys are used for entering program addresses & new values.
- b-The buttons with text labels are used as function buttons and select the options indicated by the text and normally precede other button presses, e.g. to enter Bypass Mode press <**BYPASS**> and a two digit numeric key entry corresponding to the zone number you wish to be excluded eg "01" for Zone # 1, "09" for Zone # 9 and "15" for Zone # 15. Your selections will be shown on the LCD display.
- c-The **PROGRAM** Key is used to prefix option selections in the program modes e.g. <**PROGRAM**> 24 <**ENTER**> selects User Code 24 when in either of the two program modes. The **PROGRAM** key is also used prior to a Master or Installer Code to enter one of the program modes from normal operating mode.
- d-The **ENTER** Key is used after entry of a sequence of numbers (eg entry of a User code to Arm or Disarm the system). As a User code can be 1-6 digits in length, the panel will not accept a code entry until the Enter key is pressed.
- e-The **CONTROL** button, if enabled, is used to either turn an output on/off or disable the Day Mode alarms. The control output can be used to operate other external devices such as garage door openers, door locks, lights, etc.

LED INDICATORS

The LED indicators are used to display system conditions such as "Trouble" alarms and "Bypass" active. They also indicate armed status of the panel and if all zones are in the clear "Ready" state prior to arming.

KEYPAD TAMPER (wrong code alarm)

A wrong code or **Keypad Tamper** alarm is generated by the PW64 after 4 consecutive invalid code entries. The controller will not "Lock-Out" the keypad at this point but simply create an alarm condition that may be reported to a monitoring company via the dialler. Entry of a valid user code will reset the Keypad Tamper alarm, however, the alarm event will be written into memory and the keypad will display "New Event" indicating the presence of a new memory entry.

KEYPAD ADDRESS ASSIGNMENT

It is possible to connect up to 8 LCD keypads to the PW64 panel. By default, the keypad mounted inside the cabinet is set to address number 1. If connecting additional keypads to the panel, ensure that each new keypad is addressed separately to avoid conflicts on the keypad buss.

IMPORTANT NOTE: KEYPAD ADDRESS CHANGES ARE ONLY RECOGNISED AT POWER-UP. ALL CHANGES SHOULD BE MADE IN THE POWERED DOWN STATE AND THEN ON POWER-UP THE NEW KEYPAD ADDRESS WILL BE RECOGNISED BY THE PANEL.

The 8 way switch on the LCD keypad is used to select the keypad address and the panel type that the keypad is connected to. Please use the charts below when configuring extra keypads.

To assign the KEYPAD Address

Change the switches 1,2,3 according to the following table:

	Switch 1	Switch 2	Switch 3
Keypad # 1	OFF	OFF	OFF
Keypad # 2	ON	OFF	OFF
Keypad # 3	OFF	ON	OFF
Keypad # 4	ON	ON	OFF
Keypad # 5	OFF	OFF	ON
Keypad # 6	ON	OFF	ON
Keypad # 7	OFF	ON	ON
Keypad # 8	ON	ON	ON

To assign the type of PowerWave Control Panel

Change the switches 5,6,7 according to the following table:

	Switch 5	Switch 6	Switch 7
PW-4	OFF	OFF	OFF
PW-8	ON	OFF	OFF
PW-16	OFF	ON	OFF
PW-64	ON	ON	OFF

To set the Keypad tamper mode

Change switch 8 according to the following table:

	Switch 8
Disable Keypad Tamper	ON
Enable keypad Tamper	OFF

VIEW MEMORY MODE

The PW64 alarm panel has an event memory which stores the most recent events, (up to 255), including all alarm events, all system events such as mains failure etc as well as arming & disarming by Area. This event memory is displayed via the LCD keypad with the most recent event shown first and subsequent events following in descending order from newest to oldest.

The LCD display will show "NEW EVENT" when there is a new alarm in memory which has not been viewed. To view the memory events simply press the MEMORY button and the event memory will be flashed back to you with the most recent event shown first. The events will automatically scroll through in descending order at 2 second intervals or you can manually move through the events by pressing the Memory button. To cancel the memory display at any time just press "ENTER". Each event is separated by a beep tone. Each event has a full text description plus the time and date that the event occurred. If the text is too long to fit the display you can scroll to the right by pressing the < â BYPASS> button repeatedly or move back to the left by pressing the < á STAY"> button.

Current System Faults

When viewing the memory event buffer at the keypad by pressing the "MEMORY" button, the first thing that will always be displayed is any Current System Faults that are present. There are up to 8 different system faults that can be indicated by the LCD keypad. If there are no current system faults the keypad will show "No current Faults". The possible 8 different system faults that can be displayed by the keypad are listed in the table below. Following the display of current system faults the panel will then sequence through the 255 historical memory events starting at the most recent event.

CURRENT SYSTEM FAULTS			
1	Battery Low	5	Radio Pendant Battery Low
2	Mains or 12V Fuse Failure	6	Supervised Detector Failure
3	Telephone Line Failure	7	Zone Inactivity Timeout
4	Radio Detector Battery Low	8	Dialler Kiss-off Failure

ACCESSING PROGRAM MODE FOR THE FIRST TIME

GENERAL INFORMATION

There are two program modes in the PW64 panel. The first is the “**Client**” Program Mode to allow a system User to Add, Change or Delete User Codes.

The second mode is the “**Installer**” Program Mode. The Installer Program Mode allows ALL programmed data to be changed. Access to both Modes is described below.

ACCESS TO INSTALLER PROGRAMMING ON POWER UP

When **power is applied** to the controller for the first time, **with the panel tamper input open and none of the Areas either Armed or in Stay mode**, the panel will inhibit tamper alarms and ready the panel to enter INSTALLATION PROGRAM Mode (unless the Installer Lock-out option P601E4E has previously been enabled). At this point you can go to the keypad which is connected to the panel and;

Press –“**PROGRAM**”-“**ENTER**”

which will automatically put the keypad into Installation Program mode, The LCD display will show “INSTALLER MODE”.

ACCESS TO PROGRAM MODES FROM RUN MODE

Before you can enter program mode from the normal Run Mode, the panel must be disarmed and not in stay mode. Then;

Press <**PROGRAM**> - <Code 1 (or Master Code)> - <**ENTER**>

LCD displays “CLIENT MODE”

Note: Default Master Code (Code 1) is 1,2,3

You are now in Client Program Mode. When you are in Client programming mode you have access to program addresses P1E to P100E (user code programming). To **Enter Installer Program Mode from Client Program Mode**;

Press <**PROGRAM**> - <Install Code> - <**ENTER**>

LCD displays “INSTALLER MODE”

Note: Default Installer Code (P410E) is 0,0,0,0,0,0

By default the installer can go directly to Installer Program Mode from Normal Run mode provided No Areas are Armed or in Stay Mode. The Installer Mode direct option can be disabled at address P601E Option 3.

HOW TO PROGRAM YOUR PW64 PANEL

The programming sequence always follows this pattern once you have accessed one of the Program Modes;

<**PROGRAM**> - <1,2,3 or 4 digit address> - <**ENTER**>

3 short beeps if OK - 1 long beep if error

The LCD 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

An example of programming is shown below. Here we are programming User Code 23 (P23E) with the code number of 2580.

P 23 E 2,5,8,0 E

In this example the <P> represents the **PROGRAM** key, <23> represents the actual program address, 2580 is the data and <E> represents the **ENTER** key.

TO CLEAR PROGRAM INFORMATION (From Installation Mode Only)

There are multiple options available for clearing program information (Reset to defaults). These are detailed on page 78.

e.g. To reset User Codes 1-100 (P 960E)

Press **<PROGRAM>** - 960 - **<ENTER>**
3 beeps

After resetting the various defaults, all options associated with that function (eg User Code Defaults P960E) will be set to the default values shown in the Program Summary at the rear of this manual. The default settings have been chosen to simplify the installation process by minimising the amount of programming necessary to get the system fully functional.

TO EXIT PROGRAM MODES

To exit program modes when you have finished programming:

Press **<PROGRAM>** - **<ENTER>**

The panel is now back in normal Run Mode, any program changes you have made will have replaced previous values and be in effect.

Note: While in Program Mode, Tamperers and 24 hour alarms are disabled which allows quiet access to the panel, satellite siren units etc. Also, the panel cannot be armed while in program mode. On exiting program mode, all inputs are scanned and if any tamperers or 24Hr alarms are present an activation will occur.

Note: *Where there are multiple options at one address, the numbers "0" & "9" have been reserved. Entering a "0" at the address will turn all options OFF at that address whereas entering a "9" will turn all options ON at that address.*

USER CODE PROGRAMMING

USER CODES - (P1E to P100E) & INSTALLER CODE - (P410E)

There are 101 codes available in the PW64, 100 user codes and 1 installer code. A User code can be a dedicated code that must be entered at the keypad or it can be a Radio Key. Radio keys can occupy User code slots 21-100. If a radio key has been loaded as a User, that user slot is not available to be used as a code. The user codes are located at addresses 1-100. By default, **Code 1 is the Master Code** because it has full access to enter program mode. Other user codes can be programmed as master codes also if required. The Installer code is stored at address 410 and is used to move from *Client* Program mode up to *Installer* Program mode.

Codes 1-100 may be varied in length from 1 to 6 digits. Code 410 (Installer Code) must be 3-6 digits.

To program a User Code you must first be in client or installer program mode, then select the address from 1-100. (If there is already a code programmed at this address, it will be displayed to you. If the slot has a Radio key user loaded then you will get a long error beep when you enter the address)

NOTE: Not all User Codes may have the ability to access Client Program Mode. The installer can restrict access to Users so that they have no access to Client Mode or they can have access to change only their code or they may have access to change all User codes as defined at addresses P221-P240.

To change User code 1 from the default setting of 1,2,3 to 9,8,7,6 you would enter the following data at the keypad.

P 1 E
(Old code is displayed at the keypad, in this case it will be 1,2,3)
Then **9876 E**
3 beeps
The new code will now be displayed

To program a code of 5,6,7 for User 50 you would enter the following;

P 50 E
(If a code was there it would be displayed if not the display will be blank)
Then **567 E**

3 beeps
The new code will now be displayed

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 by its group number.

To clear or delete a code simply press and hold the "CONTROL" button followed within 2 seconds by "0" button at the address where the old code is stored.

e.g. P 3 E <CONTROL> then <0> E
3 beeps

USER CODE GROUP NUMBER P101E—P200E

Each User code is assigned a User Code Group number from 1-20. The User Code groups assign the Areas and Arm/Disarm parameters plus many other options to each User. The groups are fully programmable allowing full control of what activities various Users may perform.

Addresses P101E-P200E relate to Users 1-100. A value of 1-20 is assigned at each address associated with a User. If the User has a group number of 0 they are not allowed to perform any functions. Each User group consists of a combination of 46 different options (split into 7 blocks of 8) as detailed below.

USER GROUPS 1-20 ARM/DISARM OPTIONS P201E-P220E

The first set of options for the User groups assigns the Areas that each group is allowed to Arm or Disarm as well as whether is can Arm/Disarm the full alarm or Stay Mode or both. If the group is required to allow direct output control (see P281E-P320E), all of these options must be turned off for the output programming to work.

	OPTIONS
P201E User Arm/Disarm Options for Group #1 - Default 1-8	1 = Area "A"
P202E User Arm/Disarm Options for Group #2 - Default 1,5,6	2 = Area "B"
P203E User Arm/Disarm Options for Group #3 - Default 1,5,6	3 = Area "C"
P204E User Arm/Disarm Options for Group #4 - Default 1,5,6	4 = Area "D"
P205E User Arm/Disarm Options for Group #5 - Default 1,5,6	5 = Code can arm
P206E User Arm/Disarm Options for Group #6 - Default 1,5,6	6 = Code can disarm
P207E User Arm/Disarm Options for Group #7 - Default 1,5,6	7 = Code can arm stay mode
P208E User Arm/Disarm Options for Group #8 - Default 1,5,6	8 = Code can disarm stay mode
P209E User Arm/Disarm Options for Group #9 - Default 1,5,6	
P210E User Arm/Disarm Options for Group #10 - Default 1,5,6	
P211E User Arm/Disarm Options for Group #11 - Default 1,5,6	
P212E User Arm/Disarm Options for Group #12 - Default 1,5,6	
P213E User Arm/Disarm Options for Group #13 - Default 1,5,6	
P214E User Arm/Disarm Options for Group #14 - Default 1,5,6	
P215E User Arm/Disarm Options for Group #15 - Default 1,5,6	
P216E User Arm/Disarm Options for Group #16 - Default 1,5,6	
P217E User Arm/Disarm Options for Group #17 - Default 1,5,6	
P218E User Arm/Disarm Options for Group #18 - Default 1,5,6	
P219E User Arm/Disarm Options for Group #19 - Default 1,5,6	
P220E User Arm/Disarm Options for Group #20 - Default 1,5,6	

USER GROUPS 1-20 MISCELLANEOUS OPTIONS P221E-P240E

The Miscellaneous User group options allow the User to gain access to Client Program Mode to perform various program functions. If the User is not to have access to Client Mode at all then all options at this address must be off.

	OPTIONS
P221E User Group #1 Miscellaneous Options - Default 1-7	1 = Can change telephone #'s
P222E User Group #2 Miscellaneous Options - Default 5	2 = Can change Clock
P223E User Group #3 Miscellaneous Options - Default 5	3 = Can Print Event Memory
P224E User Group #4 Miscellaneous Options - Default 5	4 = Can Answer an In-coming call
P225E User Group #5 Miscellaneous Options - Default 5	5 = Can change Their Code
P226E User Group #6 Miscellaneous Options - Default 5	6 = Can change All Codes
P227E User Group #7 Miscellaneous Options - Default 5	7 = Allow access to Installer Mode
P228E User Group #8 Miscellaneous Options - Default 5	8 = Child Unset Warning
P229E User Group #9 Miscellaneous Options - Default 5	
P230E User Group #10 Miscellaneous Options - Default 5	
P231E User Group #11 Miscellaneous Options - Default 5	

P232E User Group #12 Miscellaneous Options - Default 5
P233E User Group #13 Miscellaneous Options - Default 5
P234E User Group #14 Miscellaneous Options - Default 5
P235E User Group #15 Miscellaneous Options - Default 5
P236E User Group #16 Miscellaneous Options - Default 5
P237E User Group #17 Miscellaneous Options - Default 5
P238E User Group #18 Miscellaneous Options - Default 5
P239E User Group #19 Miscellaneous Options - Default 5
P240E User Group #20 Miscellaneous Options - Default 5

- Option 1 Can change telephone #'s** - If option 1 is on then the User can enter Client Mode and change the telephone numbers at addresses P690E-P696E.
- Option 2 Can change Clock** - This option allows the User to change the panel clock at addresses P678E-P682E
- Option 3 Can Print Event Memory** - A User with this option can start the event memory printing to a serial printer if connected via the optional Serial Board. The program address to start printing is P954E.
- Option 4 Can Answer an In-coming call** - For security reasons, the panel may not be set up to allow automatic remote access by answering an in-coming call. If this option is on however, the user can access Client Mode while there is an in-coming call and press P955E to make the panel answer the call. At this point Upload/download can occur.
- Option 5 Can change Their Code** - This option allows the User to access Client Mode to change their own code but they cannot view or change any other codes.
- Option 6 Can change All Codes** - This option allows the User to access Client Mode to change any of the 100 User codes. If the User has this option assigned they can also start Walk-test Mode (P956E) while in Client Mode.
- Option 7 Can allow access to Installer mode** - This option allows the User to access Client Mode and then a person with the Installer code can access Installer program Mode. If Direct access to installer mode is turned off at address P601E option 3 then this is the only way to get into installer mode. If the User has this option assigned they can also start Walk-test Mode (P956E) and RSSI Mode (P570E & P580E) while in Client Mode.
- Option 8 Child Unset Warning** - This option assigns the Child Unset Warning to the User. If an Area is armed in Child Mode using a code or the "A" or "B" buttons with this option assigned and then the alarm is disarmed by a User with this option assigned, the panel will send an unset report to a designated telephone number/s. If the alarm is not armed by a User with this option then no report will be generated on disarming. This option is designed to allow the user to arm the alarm and get a report when the children have returned home and disarmed the alarm using their code.

USER GROUPS 1-20 RADIO PENDANT OPTIONS P241E-P260E

P241E User Group #1 Radio Pendant Options - Default 0
P242E User Group #2 Radio Pendant Options - Default 0
P243E User Group #3 Radio Pendant Options - Default 0
P244E User Group #4 Radio Pendant Options - Default 0
P245E User Group #5 Radio Pendant Options - Default 0
P246E User Group #6 Radio Pendant Options - Default 0
P247E User Group #7 Radio Pendant Options - Default 0
P248E User Group #8 Radio Pendant Options - Default 0
P249E User Group #9 Radio Pendant Options - Default 0
P250E User Group #10 Radio Pendant Options - Default 0
P251E User Group #11 Radio Pendant Options - Default 0
P252E User Group #12 Radio Pendant Options - Default 0
P253E User Group #13 Radio Pendant Options - Default 0
P254E User Group #14 Radio Pendant Options - Default 0
P255E User Group #15 Radio Pendant Options - Default 0
P256E User Group #16 Radio Pendant Options - Default 0
P257E User Group #17 Radio Pendant Options - Default 0
P258E User Group #18 Radio Pendant Options - Default 0
P259E User Group #19 Radio Pendant Options - Default 0
P260E User Group #20 Radio Pendant Options - Default 0

OPTIONS

1 = Pendant Disabled in Alarm
 2 = Immediate Panic Alarm
 3 = Delayed Panic Alarm (1.5s)
 4 = Spare
 5 = Spare
 6 = Spare
 7 = Spare
 8 = Spare

- Option 1 Pendant disabled during an alarm** - If option 1 is on then a Radio key loaded as a User will be disabled when the system is in alarm.
- Option 2 Pendant causes Immediate Panic** - This option allows the Radio key to cause an immediate Panic alarm.
- Option 3 Pendant causes Delayed Panic** - This option allows the radio key to cause a Panic alarm after the button has been held on for longer than 1.5 seconds.

USER GROUPS 1-20 RADIO PENDANT TYPE P261E-P280E

P261E	User Group #1 Radio Pendant Type - Default 0	OPTIONS
P262E	User Group #2 Radio Pendant Type - Default 0	0 = Generic Pendant
P263E	User Group #3 Radio Pendant Type - Default 0	1 = Crow Freelink
P264E	User Group #4 Radio Pendant Type - Default 0	21 = Ness
P265E	User Group #5 Radio Pendant Type - Default 0	
P266E	User Group #6 Radio Pendant Type - Default 0	
P267E	User Group #7 Radio Pendant Type - Default 0	
P268E	User Group #8 Radio Pendant Type - Default 0	
P269E	User Group #9 Radio Pendant Type - Default 0	
P270E	User Group #10 Radio Pendant Type - Default 0	
P271E	User Group #11 Radio Pendant Type - Default 0	
P272E	User Group #12 Radio Pendant Type - Default 0	
P273E	User Group #13 Radio Pendant Type - Default 0	
P274E	User Group #14 Radio Pendant Type - Default 0	
P275E	User Group #15 Radio Pendant Type - Default 0	
P276E	User Group #16 Radio Pendant Type - Default 0	
P277E	User Group #17 Radio Pendant Type - Default 0	
P278E	User Group #18 Radio Pendant Type - Default 0	
P279E	User Group #19 Radio Pendant Type - Default 0	
P280E	User Group #20 Radio Pendant Type - Default 0	

- Option 1 Generic Pendant Type** - If this option is on then a Radio key loaded as a User has no specific type. In this case, the code that is learnt must always be the same for it to work and it should not send any special signals such as battery low.
- Option 2 Freelink Pendant Type** - This option identifies the Radio key as a Freelink type. When the Radio key registers a low battery it is transmitted to the panel and recognised as such and reported at the keypad and via the dialler if programmed to do so. The Freelink transmitters also include a special feature to eliminate false triggers from other transmissions.
- Option 3 Ness Pendant Type** - This option identifies the Radio key as a Ness type. When the Radio key registers a low battery it is transmitted to the panel and recognised as such and reported at the keypad and via the dialler if programmed to do so.

USER GROUPS 1-20 OUTPUTS TO TURN ON P281E-P300E

This set of options allow a User code or radio key to control the turning ON of an Output directly. For this option to work the options at in the corresponding group at addresses P201E-P220E must be OFF.

P281E	User Group #1 Outputs 1-8 to turn On - Default 0
P282E	User Group #2 Outputs 1-8 to turn On - Default 0
P283E	User Group #3 Outputs 1-8 to turn On - Default 0
P284E	User Group #4 Outputs 1-8 to turn On - Default 0
P285E	User Group #5 Outputs 1-8 to turn On - Default 0
P286E	User Group #6 Outputs 1-8 to turn On - Default 0
P287E	User Group #7 Outputs 1-8 to turn On - Default 0
P288E	User Group #8 Outputs 1-8 to turn On - Default 0
P289E	User Group #9 Outputs 1-8 to turn On - Default 0
P290E	User Group #10 Outputs 1-8 to turn On - Default 0
P291E	User Group #11 Outputs 1-8 to turn On - Default 0
P292E	User Group #12 Outputs 1-8 to turn On - Default 0
P293E	User Group #13 Outputs 1-8 to turn On - Default 0
P294E	User Group #14 Outputs 1-8 to turn On - Default 0
P295E	User Group #15 Outputs 1-8 to turn On - Default 0

P296E User Group #16 Outputs 1-8 to turn On - Default 0
P297E User Group #17 Outputs 1-8 to turn On - Default 0
P298E User Group #18 Outputs 1-8 to turn On - Default 0
P299E User Group #19 Outputs 1-8 to turn On - Default 0
P300E User Group #20 Outputs 1-8 to turn On - Default 0

USER GROUPS 1-20 OUTPUTS TO TURN OFF P301E-P320E

This set of options allow a User code or radio key to control the turning OFF of an Output directly. For this option to work the options at in the corresponding group at addresses P201E-P220E must be OFF.

P301E User Group #1 Outputs 1-8 to turn Off - Default 0
P302E User Group #2 Outputs 1-8 to turn Off - Default 0
P303E User Group #3 Outputs 1-8 to turn Off - Default 0
P304E User Group #4 Outputs 1-8 to turn Off - Default 0
P305E User Group #5 Outputs 1-8 to turn Off - Default 0
P306E User Group #6 Outputs 1-8 to turn Off - Default 0
P307E User Group #7 Outputs 1-8 to turn Off - Default 0
P308E User Group #8 Outputs 1-8 to turn Off - Default 0
P309E User Group #9 Outputs 1-8 to turn Off - Default 0
P310E User Group #10 Outputs 1-8 to turn Off - Default 0
P311E User Group #11 Outputs 1-8 to turn Off - Default 0
P312E User Group #12 Outputs 1-8 to turn Off - Default 0
P313E User Group #13 Outputs 1-8 to turn Off - Default 0
P314E User Group #14 Outputs 1-8 to turn Off - Default 0
P315E User Group #15 Outputs 1-8 to turn Off - Default 0
P316E User Group #16 Outputs 1-8 to turn Off - Default 0
P317E User Group #17 Outputs 1-8 to turn Off - Default 0
P318E User Group #18 Outputs 1-8 to turn Off - Default 0
P319E User Group #19 Outputs 1-8 to turn Off - Default 0
P320E User Group #20 Outputs 1-8 to turn Off - Default 0

USER GROUPS 1-20 TIME ZONE CONTROL P321E-P340E

This set of options allow a User code or radio key to be controlled by a Time Zone. At any of the addresses below you can select any or all of the possible 8 time zones. If no time zones are assigned, the code or radio key will work at all times. If a time zone is assigned, the code or radio key will only work when the time zone is active. By selecting more than one time zone it is possible to get complex time control for different times during the week eg if TZ#1 was Mon-Fri, 0830-1700 and TZ#2 was Sat, 0900-1200, you could select time zones 1&2 and both times would control the code or radio key.

P321E User Group #1 Time Zones 1-8 - Default 0
P322E User Group #2 Time Zones 1-8 - Default 0
P323E User Group #3 Time Zones 1-8 - Default 0
P324E User Group #4 Time Zones 1-8 - Default 0
P325E User Group #5 Time Zones 1-8 - Default 0
P326E User Group #6 Time Zones 1-8 - Default 0
P327E User Group #7 Time Zones 1-8 - Default 0
P328E User Group #8 Time Zones 1-8 - Default 0
P329E User Group #9 Time Zones 1-8 - Default 0
P330E User Group #10 Time Zones 1-8 - Default 0
P331E User Group #11 Time Zones 1-8 - Default 0
P332E User Group #12 Time Zones 1-8 - Default 0
P333E User Group #13 Time Zones 1-8 - Default 0
P334E User Group #14 Time Zones 1-8 - Default 0
P335E User Group #15 Time Zones 1-8 - Default 0
P336E User Group #16 Time Zones 1-8 - Default 0
P337E User Group #17 Time Zones 1-8 - Default 0
P338E User Group #18 Time Zones 1-8 - Default 0
P339E User Group #19 Time Zones 1-8 - Default 0
P340E User Group #20 Time Zones 1-8 - Default 0

INSTALLER CODE - P410E

This code is used to enter full Installer Program mode either from Client Program mode or directly depending upon options set. The default installer code is 000000. To change this code you Must first be in Installer Program Mode then enter your new installer code at address P410E. The new code will be displayed on the LCD. The Installer Code may vary from 3-6 digits in length.

If the alarm is Disarmed then the Installer Code can gain access directly to Installer Program Mode provided Option 3 at address P601E is on.

DURESS DIGIT - P603E

P603E 0-9 Duress Digit (Default 0) - A Duress Alarm is activated only when the "Duress Digit" defined at this address is prefixed to a valid user code. The resulting Duress Alarm will disarm the Area in the normal way, operate an output if one is defined and report a duress event via the dialler if programmed to do so. Values of 0-9 may be entered at this address where 0 = option disabled and 1-9 represent a valid Duress digit from 1-9.

ZONE PROGRAMMING

There are up to 64 zones available in the PW64 panel. The first 60 zones are wireless zones only with zones 61-64 being the hardwired zones on the main control board. The functions or characteristics of every zone are configured in one of 10 zone groups. The groups include information on the Areas to be assigned to zones, the entry delays, the radio type and other parameters. If a zone has a value of "0" programmed as it's group number, that zone is disabled.

ASSIGNING A ZONE GROUP (1-10) TO A ZONE

P341E	Zone 1 option Group # 1-10 - default 1	P373E	Zone 33 option Group # 1-10 - default 0
P342E	Zone 2 option Group # 1-10 - default 1	P374E	Zone 34 option Group # 1-10 - default 0
P343E	Zone 3 option Group # 1-10 - default 1	P375E	Zone 35 option Group # 1-10 - default 0
P344E	Zone 4 option Group # 1-10 - default 1	P376E	Zone 36 option Group # 1-10 - default 0
P345E	Zone 5 option Group # 1-10 - default 0	P377E	Zone 37 option Group # 1-10 - default 0
P346E	Zone 6 option Group # 1-10 - default 0	P378E	Zone 38 option Group # 1-10 - default 0
P347E	Zone 7 option Group # 1-10 - default 0	P379E	Zone 39 option Group # 1-10 - default 0
P348E	Zone 8 option Group # 1-10 - default 0	P380E	Zone 40 option Group # 1-10 - default 0
P349E	Zone 9 option Group # 1-10 - default 0	P381E	Zone 41 option Group # 1-10 - default 0
P350E	Zone 10 option Group # 1-10 - default 0	P382E	Zone 42 option Group # 1-10 - default 0
P351E	Zone 11 option Group # 1-10 - default 0	P383E	Zone 43 option Group # 1-10 - default 0
P352E	Zone 12 option Group # 1-10 - default 0	P384E	Zone 44 option Group # 1-10 - default 0
P353E	Zone 13 option Group # 1-10 - default 0	P385E	Zone 45 option Group # 1-10 - default 0
P354E	Zone 14 option Group # 1-10 - default 0	P386E	Zone 46 option Group # 1-10 - default 0
P355E	Zone 15 option Group # 1-10 - default 0	P387E	Zone 47 option Group # 1-10 - default 0
P356E	Zone 16 option Group # 1-10 - default 0	P388E	Zone 48 option Group # 1-10 - default 0
P357E	Zone 17 option Group # 1-10 - default 0	P389E	Zone 49 option Group # 1-10 - default 0
P358E	Zone 18 option Group # 1-10 - default 0	P390E	Zone 50 option Group # 1-10 - default 0
P359E	Zone 19 option Group # 1-10 - default 0	P391E	Zone 51 option Group # 1-10 - default 0
P360E	Zone 20 option Group # 1-10 - default 0	P392E	Zone 52 option Group # 1-10 - default 0
P361E	Zone 21 option Group # 1-10 - default 0	P393E	Zone 53 option Group # 1-10 - default 0
P362E	Zone 22 option Group # 1-10 - default 0	P394E	Zone 54 option Group # 1-10 - default 0
P363E	Zone 23 option Group # 1-10 - default 0	P395E	Zone 55 option Group # 1-10 - default 0
P364E	Zone 24 option Group # 1-10 - default 0	P396E	Zone 56 option Group # 1-10 - default 0
P365E	Zone 25 option Group # 1-10 - default 0	P397E	Zone 57 option Group # 1-10 - default 0
P366E	Zone 26 option Group # 1-10 - default 0	P398E	Zone 58 option Group # 1-10 - default 0
P367E	Zone 27 option Group # 1-10 - default 0	P399E	Zone 59 option Group # 1-10 - default 0
P368E	Zone 28 option Group # 1-10 - default 0	P400E	Zone 60 option Group # 1-10 - default 0
P369E	Zone 29 option Group # 1-10 - default 0	P401E	Zone 61 option Group # 1-10 - default 0
P370E	Zone 30 option Group # 1-10 - default 0	P402E	Zone 62 option Group # 1-10 - default 0
P371E	Zone 31 option Group # 1-10 - default 0	P403E	Zone 63 option Group # 1-10 - default 0
P372E	Zone 32 option Group # 1-10 - default 0	P404E	Zone 64 option Group # 1-10 - default 0

ZONE GROUP ARM/DISARM OPTIONS A

Zone Options A

P411E	Zone Group #1 Options A Default 1,6,7	1 = Assigned to Area "A"
P412E	Zone Group #2 Options A Default 1,6,7	2 = Assigned to Area "B"
P413E	Zone Group #3 Options A Default 1,6,7	3 = Assigned to Area "C"
P414E	Zone Group #4 Options A Default 1,6,7	4 = Assigned to Area "D"
P415E	Zone Group #5 Options A Default 1,6,7	5 = Is a Stay Mode Zone
P416E	Zone Group #6 Options A Default 1,6,7	6 = Can be Manually Bypassed
P417E	Zone Group #7 Options A Default 1,6,7	7 = Can Auto-bypass
P418E	Zone Group #8 Options A Default 1,6,7	8 = Is a Day Zone
P419E	Zone Group #9 Options A Default 1,6,7	
P420E	Zone Group #10 Options A Default 1,6,7	

- Option 1** **Assigned to Area "A".** The zone with this group # is in Area A. If in more than one area, all areas assigned to the zone must be armed before it is in the armed state.
- Option 2** **Assigned to Area "B".** The zone with this group # is in Area B. If in more than one area, all areas assigned to the zone must be armed before it is in the armed state.
- Option 3** **Assigned to Area "C".** The zone with this group # is in Area C. If in more than one area, all areas assigned to the zone must be armed before it is in the armed state.
- Option 4** **Assigned to Area "D".** The zone with this group # is in Area D. If in more than one area, all areas assigned to the zone must be armed before it is in the armed state.
- Option 5** **Is a Stay Mode Zone.** The zone with this group # is a stay mode zone. If in more than one area, all areas assigned to the zone must be in stay mode before it is in the armed state.
- Option 6** **Can be Manually Bypassed.** The zone with this group # can be bypassed using the "Bypass" function.
- Option 7** **Can be Auto-Bypassed.** The zone with this group # can be automatically bypassed if unsealed at the end of the exit delay time.
- Option 8** **Is a Day Zone.** The zone with this group # will cause a Day alarm when the area assigned to the zone is Disarmed.

ZONE GROUP OPTIONS B

Zone Options B

P421E	Zone Group #1 Options B Default 0	1 = Is a 24 Hour Zone
P422E	Zone Group #2 Options B Default 0	2 = Is a 24 Hour Fire Zone
P423E	Zone Group #3 Options B Default 0	3 = Is a 24 Hour Auto-Reset Zone
P424E	Zone Group #4 Options B Default 0	4 = Is a Permanent Day Zone
P425E	Zone Group #5 Options B Default 0	5 = Is a Handover Zone
P426E	Zone Group #6 Options B Default 0	6 = Is a two Trigger Zone
P427E	Zone Group #7 Options B Default 0	7 = Can Arm if zone not "Ready"
P428E	Zone Group #8 Options B Default 0	8 = Is a Siren Lockout Zone
P429E	Zone Group #9 Options B Default 0	
P430E	Zone Group #10 Options B Default 0	

- Option 1** **24 Hour Zone.** The zone with this group # is active at all times and will trigger the alarm when activated. If the zone group has an entry delay programmed, the zone has to be in alarm for longer than the delay time to cause an alarm.
- Option 2** **24 Hour Fire Zone.** The zone with this group # is active at all times and will trigger the alarm when activated. A 24 Hour Fire zone will cause any programmed alarm outputs to pulse on & off to differentiate it from a normal 24 hour alarm. The same entry delay function applies as per Option 1 above.
- Option 3** **24 Hour Auto-reset Zone.** The zone with this group # is active at all times and will trigger the alarm when activated. Unlike the other two options above, when the detector resets, the alarm will also reset automatically without having to use a code to reset the alarm. The same entry delay function applies as per Option 1 above.
- Option 4** **Is a Permanent Day Zone.** The zone with this group # is always going to be a day zone. It will only ever operate the day alarms and will never be part of the normal Armed zones.

- Option 5** **Is a Handover Zone.** The zone with this group # will have an entry delay (a suitable delay time must also be programmed for the same group) provided another zone that is NOT programmed as a handover zone has started an entry delay. If no entry delay is active when this zone is triggered it will act as an instant zone.
- Option 6** **Is a Two Trigger Zone.** The zone with this group # assigned must be triggered twice within the two trigger time period (P849E) before it will cause an alarm. Alternatively, two separate zones both with the two trigger function can alarm once each within the two trigger time period and this will also result in a alarm. In the case of a reed switch or similar device, if the zone is left unsealed for a period exceeding the two trigger period this will also cause an alarm.
- Option 7** **Can Arm if zone is not "Ready".** If the Area/s assigned to this group have the option to NOT arm if a zone is unsealed (Not Ready) at the time of arming (see P530E, P630E, P730E & P830E option 1) then this option will allow individual zone groups to still allow arming in this state.
- Option 8** **Is a Siren Lockout zone.** The zone with this group # will operate any programmed outputs when in alarm but it cannot cause another audible alarm (Lockout) until the area is Disarmed then Armed again.

ZONE GROUP OPTIONS C

Zone Options C

P431E	Zone Group #1 Options C Default 1	1 = Send Multiple reports via dialler
P432E	Zone Group #2 Options C Default 1	2 = Zone is monitored for Inactivity
P433E	Zone Group #3 Options C Default 1	3 = Zone is in Soak-test Mode
P434E	Zone Group #4 Options C Default 1	4 = Zone is NC or NO.
P435E	Zone Group #5 Options C Default 1	5 = Enable Zone Group PA Alarm message
P436E	Zone Group #6 Options C Default 1	6 = Use Canned Zone Group PA Alarm message
P437E	Zone Group #7 Options C Default 1	7 = Repeat Zone Group PA Alarm message
P438E	Zone Group #8 Options C Default 1	8 = Use second supervise timer # 2
P439E	Zone Group #9 Options C Default 1	
P440E	Zone Group #10 Options C Default 1	

- Option 1** **Send Multiple reports via Dialler.** A zone with this group # will send multiple alarm reports via the dialler. If this option is off, the zone will only report one alarm per armed cycle.
- Option 2** **Zone is monitored for Inactivity.** A zone with this group # will be monitored for Inactivity. Every time the zone is triggered during the disarmed state the Inactivity timer for this zone will be reset to zero. When the area that the zone is assigned to is armed, the inactivity timer is stopped with the current time saved. On disarming of the area, the inactivity timer for the zone will resume with the value saved when last armed. If the inactivity time for the zone exceeds the programmed value at address P779E an alarm will be generated. This option is designed to warn if a zone has not reported to the panel for sometime.
- Option 3** **Soak Test Zone.** A zone with this group # will be put into soak-test mode. In soak test mode the zone cannot cause a normal alarm but any activity when the system is armed is recorded in the event memory. This mode is designed to monitor zones without causing an alarm.
- Option 4** **Zone is NC or NO.** This option relates to the hardwired zone 61-64 only. It also only applies when the type 3 or 4 wiring configuration is used. The default is that the alarm contacts are NC (normally closed) but if a smoke detector or similar device with NO (normally open) contacts is used the option can be changed.
- Option 5** **Enable Local PA message.** When this zone group activates, it is possible to play a pre-recorded speech message via the panels internal speaker. With this option on the panel is expecting a customised message to be programmed by the installer and the message numbers selected at addresses P451E-P460E, if no message number is programmed, the panel will not play any local PA message when in alarm.
- Option 6** **Use Canned local PA message.** If option 5 above is on plus this option, the panel will play the default "Canned" audio message when this group is in alarm provided no message is programmed at addresses P451E-P460E.
- Option 7** **Repeat Local PA message.** If option 5 or 6 or both are on above and this option is on, the panel repeat the local PA message until the alarm is disarmed provided no message is programmed at addresses P451E-P460E.
- Option 8** **Use second supervise timer # 2.** If this option is off, a supervised radio device will use the first

supervised timer # 1 (P779E). If the option is on, a supervised radio device will use supervise timer # 2 (P780E).

ZONE GROUP RADIO SENSOR MODE

Zone Radio Mode

P441E	Zone Group #1 Radio Mode - Default 0	1 = Crow AE Battery Low
P442E	Zone Group #2 Radio Mode - Default 0	2 = Crow AE reed Switch
P443E	Zone Group #3 Radio Mode - Default 0	3 = Crow Merlin - Supervised signal ignored
P444E	Zone Group #4 Radio Mode - Default 0	4 = Crow Merlin - Supervised signal active
P445E	Zone Group #5 Radio Mode - Default 0	5 = Freelink Protocol with Checksum - Supervised
P446E	Zone Group #6 Radio Mode - Default 0	6 = Freelink Protocol with Checksum - Non-supervised
P447E	Zone Group #7 Radio Mode - Default 0	11 = Ness battery low
P448E	Zone Group #8 Radio Mode - Default 0	12 = Ness Reed Switch
P449E	Zone Group #9 Radio Mode - Default 0	21 = Electronics Line Cougar PIR
P450E	Zone Group #10 Radio Mode - Default 0	31 = Visonic K980W PIR
		32 = Powercode - Supervised signal ignored
		33 = Powercode - Supervised signal Active

Option 0 **Radio detector type "0"**. If the radio device loaded against a zone has no special bits such as tampers/ battery low, etc then leave the radio type as 0. In this case as long as the code received never changes the panel will always respond correctly to a transmission from the wireless device.

Option 1 & 2 **AE Protocol**. If the wireless device is an AE type then setting option 1 for the PIR will allow it to accept the battery low signal correctly when transmitted. If the device is an AE reed switch then setting the option to 2 will accept both the open and closed signals plus the battery low.

Option 3 & 4 **Crow Merlin Protocol**. If the wireless device is the Crow Merlin PIR then setting option 3 will allow the alarm/tamper & battery low signals to be received correctly but the supervised signal will be ignored. By setting option 4 on all signals from the Merlin including the supervised signal will be monitored correctly.

Option 5 & 6 **Crow Freelink Protocol**. If the wireless device is the Crow Freelink PIR or wireless reed switch then setting option 6 will allow the alarm/tamper & battery low signals plus the open & closed signal from the reed switch to be received correctly but the supervised signal will be ignored. By setting option 5 on all signals from the Freelink PIR or Reed switch including the supervised signal will be monitored correctly.

Option 11 & 12 **Ness Protocol**. If the wireless device is the Ness PIR then setting the option to 11 will allow the alarm and battery low from the PIR to be processed correctly. If the device is the Ness wireless reed switch then setting the option to 12 will allow the open/close & battery low signals to be processed correctly.

Option 21 **Electronics Line Cougar Protocol**. If the wireless device is the EL Cougar PIR then setting option 21 will allow the alarm/tamper & battery low signals to be received correctly.

Option 31 **Visonic K980W Protocol**. If the wireless device is the Visonic K980W PIR then setting option 31 will allow the alarm/tamper & battery low signals to be received correctly.

Option 32 & 33 **Powercode Protocol**. If the wireless device is the Powercode PIR or wireless reed switch then setting option 32 will allow the alarm/tamper & battery low signals plus the open & closed signal from the reed switch to be received correctly but the supervised signal will be ignored. By setting option 33 on all signals from the Powercode PIR or Reed switch including the supervised signal will be monitored correctly.

ZONE GROUP VOICE MESSAGE

If you want the panel to play a custom voice message either locally (PA) or over the telephone when reporting a voice alarm then select the message number at these addresses. The number can be from 1-47. For the message to work properly it first has to be programmed at address P890E. If the value is left at "0" the panel will play the default "Canned" message for that group. For the local PA to work options 5-7 must be programmed at addresses P431E-P440E and to enable the voice alarm reporting the option must be selected for the reporting format for the telephone number (P703E-P708E).

P451E	Zone Group #1 Voice Message # - Default 0
P452E	Zone Group #2 Voice Message # - Default 0
P453E	Zone Group #3 Voice Message # - Default 0
P454E	Zone Group #4 Voice Message # - Default 0
P455E	Zone Group #5 Voice Message # - Default 0
P456E	Zone Group #6 Voice Message # - Default 0

P457E Zone Group #7 Voice Message # - Default 0
P458E Zone Group #8 Voice Message # - Default 0
P459E Zone Group #9 Voice Message # - Default 0
P460E Zone Group #10 Voice Message # - Default 0

ZONE GROUP ENTRY DELAY TIME

This is the entry delay time all zones assigned with this group number will use when armed. If the alarm is disarmed before the delay expires then no alarm will be generated. The delay also applies to 24 hour zones. A zero means there is no entry delay. The range allowed is 0-9999 seconds.

P461E Zone Group #1 Entry Delay - Default 20
P462E Zone Group #2 Entry Delay - Default 0
P463E Zone Group #3 Entry Delay - Default 0
P464E Zone Group #4 Entry Delay - Default 0
P465E Zone Group #5 Entry Delay - Default 0
P466E Zone Group #6 Entry Delay - Default 0
P467E Zone Group #7 Entry Delay - Default 0
P468E Zone Group #8 Entry Delay - Default 0
P469E Zone Group #9 Entry Delay - Default 0
P470E Zone Group #10 Entry Delay - Default 0

ZONE GROUP DIALLING SCENARIO NUMBER

There are four dialling scenarios that can be programmed allowing the option of having different zones report to different monitoring stations. Alternatively, you could have some zones report to a monitoring station and some plant alarms report using voice messages to a technicians mobile telephone.

P471E Zone Group #1 Scenario # - Default 1
P472E Zone Group #2 Scenario # - Default 1
P473E Zone Group #3 Scenario # - Default 1
P474E Zone Group #4 Scenario # - Default 1
P475E Zone Group #5 Scenario # - Default 1
P476E Zone Group #6 Scenario # - Default 1
P477E Zone Group #7 Scenario # - Default 1
P478E Zone Group #8 Scenario # - Default 1
P479E Zone Group #9 Scenario # - Default 1
P480E Zone Group #10 Scenario # - Default 1

ZONE GROUP ALARM CONTACT ID REPORTING CODE

When a zone group reports an alarm to a monitoring station using Contact ID, the default event type is a code 130 for "Burglar Alarm". Should you require some zone groups to report alarms as Fire or Medical alarms, etc, you can change the event code transmitted using these addresses.

P481E Zone Group #1 Contact ID Alarm Code (Default = 130)
P482E Zone Group #2 Contact ID Alarm Code (Default = 130)
P483E Zone Group #3 Contact ID Alarm Code (Default = 130)
P484E Zone Group #4 Contact ID Alarm Code (Default = 130)
P485E Zone Group #5 Contact ID Alarm Code (Default = 130)
P486E Zone Group #6 Contact ID Alarm Code (Default = 130)
P487E Zone Group #7 Contact ID Alarm Code (Default = 130)
P488E Zone Group #8 Contact ID Alarm Code (Default = 130)
P489E Zone Group #9 Contact ID Alarm Code (Default = 130)
P490E Zone Group #10 Contact ID Alarm Code (Default = 130)

ZONE GROUP CONTACT ID TAMPER REPORTING CODE

When a zone tamper reports an alarm to a monitoring station using Contact ID, the default event type is a code 137 for "Tamper". Should you require some zone group tampers to report a different code, you can change the event code transmitted using these addresses.

P491E Zone Group #1 Contact ID Tamper Code (Default = 137)
P492E Zone Group #2 Contact ID Tamper Code (Default = 137)

P493E Zone Group #3 Contact ID Tamper Code (Default = 137)
P494E Zone Group #4 Contact ID Tamper Code (Default = 137)
P495E Zone Group #5 Contact ID Tamper Code (Default = 137)
P496E Zone Group #6 Contact ID Tamper Code (Default = 137)
P497E Zone Group #7 Contact ID Tamper Code (Default = 137)
P498E Zone Group #8 Contact ID Tamper Code (Default = 137)
P499E Zone Group #9 Contact ID Tamper Code (Default = 137)
P500E Zone Group #10 Contact ID Tamper Code (Default = 137)

ZONE GROUP REPORTING ACCOUNT NUMBER

If a zone is in more than one Area, this address allows you to program which account code it will use when reporting alarms. (1 = Area A, 2 = Area B, 3 = Area C, 4 = Area D)

P501E Zone Group #1 Account # - Default 1
P502E Zone Group #2 Account # - Default 1
P503E Zone Group #3 Account # - Default 1
P504E Zone Group #4 Account # - Default 1
P505E Zone Group #5 Account # - Default 1
P506E Zone Group #6 Account # - Default 1
P507E Zone Group #7 Account # - Default 1
P508E Zone Group #8 Account # - Default 1
P509E Zone Group #9 Account # - Default 1
P510E Zone Group #10 Account # - Default 1

ZONE RESPONSE TIME FOR THE HARDWIRED ZONES 61-64.

P604E 1-31E. Default = 6

If there is a high level of noise introduced into the cables wired to the hardwired zones the time that the panel must see a continuous alarm state before going into alarm can be adjusted at this address. Normally the default value of 6 is satisfactory but if required the time can be increased by programming a higher number at this address. The maximum value allowed is a count of 31.

PROGRAMMING AREA "A,B,C & D" PARAMETERS

AREA "A" PRIMARY OUTPUT OPTIONS - P511E - P518E

AREA "B" PRIMARY OUTPUT OPTIONS - P611E - P618E

AREA "C" PRIMARY OUTPUT OPTIONS - P711E - P718E

AREA "D" PRIMARY OUTPUT OPTIONS - P811E - P818E

The addresses above allow a number Area based options to be assigned to any of the 8 outputs. Address P511 relates to Output 1 options for Area A, address P611 relates to Output 1 options for Area B, address P711 relates to Output 1 options for Area C and address P811 relates to Output 1 options for Area D.

P511E 1E = Normal zone alarms to output #1
 2E = Stay Mode alarms to output #1
 3E = Pendant chirps to output #1
 4E = All zones sealed indication to output #1
 5E = 2 second pulse on arming or disarming to output #1
 6E = Day zone alarms to output #1
 7E = Spare
 8E = Spare

Option 1 Normal zone alarms to output #1 - This option will map alarms from normal zone alarms from Area "A" to output #1. Normal zones are those which will only activate when the area is armed.

Option 2 Stay Mode alarms to output #1 - This option will map alarms from zones defined as Area "A" Stay Mode to output #1. Zones are defined as being in Stay Mode at addresses P411E-P420E option 5.

Option 3 Pendant Chirps to output #1 - This option will map two short pulses (Chirps) to output #1 when Area "A" is armed via a radio key (Pendant) and four short pulses to output #1 when Area "A" is disarmed by

a radio key. The length of the pulses (Chirps) are set by the pulse timer for this output.

- Option 4 All zones sealed indication to output #1** - This option will map an Area "A" "Ready" indication to output #1. A "Ready" indication is produced when all zones in an area are sealed.
- Option 5 2 second pulse to output #1 on arming or disarming** - This option will map a 2 second pulse to Output #1 each time Area "A" is armed or disarmed as defined at P531E options 6&7.
- Option 6 Day zone alarms (Chime) to output #1** - The option will map alarms from Area "A" zones defined as Day Zones to output #1. Zones are defined as Day Zones at P411E-P420E option 8 and P421E-P430E option 4. Day zones are those which normally operate only during periods when the Area is disarmed and are used as door bells and shop minders etc.

Note: P512E through P518E are as above but apply to outputs 2-8 for Area A

Note: P612E through P618E are as above but apply to outputs 2-8 for Area B

Note: P712E through P718E are as above but apply to outputs 2-8 for Area C

Note: P812E through P818E are as above but apply to outputs 2-8 for Area D

AREA "A" SECONDARY AREA OUTPUT OPTIONS - P521E - P528E

AREA "B" SECONDARY AREA OUTPUT OPTIONS - P621E - P628E

AREA "C" SECONDARY AREA OUTPUT OPTIONS - P721E - P728E

AREA "D" SECONDARY AREA OUTPUT OPTIONS - P821E - P828E

The addresses above allow a number of secondary Area based options to be assigned to any of the 8 outputs. Address P521 relates to Output 1 options for Area A, address P621 relates to Output 1 options for Area B, address P721 relates to Output 1 options for Area C and P821 relates to Output 1 options for Area D.

- P521E 1E = Any Bypass to output #1**
2E = Auto-Bypass warning to output #1
3E = Entry beeps to output #1
4E = Exit beeps to output #1
5E = Arm indication to output #1
6E = Stay Mode Arm indication to output #1
7E = Disarm indication to output #1
8E = Spare

- Option 1 Any Bypass to output #1** - This option will produce a change of state at output #1 if any zones are bypassed, either manually or automatically. This change of state will occur at the end of the Exit delay. The output reset time (P761E) should be set to zero when this option is enabled.
- Option 2 Auto-Bypass warning to output #1** - This option will produce a 2 second pulse at output #1 at the end of the exit period if a zone has been Auto-Bypassed in Area "A". An Auto-Bypass occurs when a zone is left un-sealed at the end of the exit delay. At the end of the exit delay zones not defined as Auto-Bypass which are left un-sealed will produce an activation. Auto-Bypass assignments are found at P411E-P420E option 7.
- Option 3 Entry beeps to output #1** - This option will map the keypad entry beeps to output #1.
- Option 4 Exit beeps to output #1** - This option will map the keypad exit beeps to output #1.
- Option 5 Arm indication to output #1** - This option will turn output #1 on when Area "A" is armed and turn output #1 off when Area "A" is disarmed. This change of state occurs at the start of the exit delay and when the Area is disarmed. Output reset time should be set to zero (P761E0E)
- Option 6 Stay Mode Arm indication to output 1** - This option will turn output #1 on when Area "A" is placed in Stay Mode and turn output #1 off when Area "A" Stay Mode is turned off. Like option 5 this change of state occurs either at the start of the exit delay or when the Area is disarmed. Output reset time should be set to zero (P761E0E)
- Option 7 Disarm indication to output #1** - This option will turn output #1 on when Area "A" is disarmed either from Full Arm or Stay Mode and turn output #1 off when Area "A" is Armed or in Stay Mode. Like option 5 this change of state occurs either at the start of the exit delay or when the Area is disarmed. Output reset time should be set to zero (P761E0E)

Note: P522E through P528E are as above but apply to outputs 2-8 for Area A

Note: P622E through P628E are as above but apply to outputs 2-8 for Area B
Note: P722E through P728E are as above but apply to outputs 2-8 for Area C
Note: P822E through P828E are as above but apply to outputs 2-8 for Area D

SPECIAL AREA ARM & STAY BUTTON OPTIONS FOR AREA A - P519E & P520E
SPECIAL AREA ARM & STAY BUTTON OPTIONS FOR AREA B - P619E & P620E
SPECIAL AREA ARM & STAY BUTTON OPTIONS FOR AREA C - P719E & P720E
SPECIAL AREA ARM & STAY BUTTON OPTIONS FOR AREA D - P819E & P820E

- P519E** "ARM" key can disarm Area "A" during exit delay - This option enables the one key disarm during exit delay feature on a keypad by keypad basis for each area. Options 1-8 represent keypads 1-8.
- P520E** "STAY" key can disarm Area "A" during Stay Mode - This option enables single button disarm of Stay mode via the "STAY" key. Options 1-8 represent keypads 1-8

Note: P619E & P620E are as above but apply to keypads in Area B
Note: P719E & P720E are as above but apply to keypads in Area C
Note: P819E & P820E are as above but apply to keypads in Area D

AREA "A" TIME ZONE AUTO ARM/DISARM OPTIONS - P529E
AREA "B" TIME ZONE AUTO ARM/DISARM OPTIONS - P629E
AREA "C" TIME ZONE AUTO ARM/DISARM OPTIONS - P729E
AREA "D" TIME ZONE AUTO ARM/DISARM OPTIONS - P829E

- P529E 1-8** Time Zone to use for Auto Arm or Disarm of Area "A" (Default 0) - This option will determine which Time Zone/s will cause Area "A" to arm, disarm or both, based on the programmed options set at P532E for Area A.

Note: P629E is the same as above but applies to Area B Time Zone Arm/Disarm
Note: P729E is the same as above but applies to Area C Time Zone Arm/Disarm
Note: P829E is the same as above but applies to Area D Time Zone Arm/Disarm

PARTITION "A" MISCELLANEOUS KEYPAD OPTIONS - P530E
PARTITION "B" MISCELLANEOUS KEYPAD OPTIONS - P630E
PARTITION "C" MISCELLANEOUS KEYPAD OPTIONS - P730E
PARTITION "D" MISCELLANEOUS KEYPAD OPTIONS - P830E

- P530E** 1E = Cannot Arm if not Ready
2E = Arm key required before code to set
3E = Stay key required before code to arm Stay Mode
4E = Code required to arm area
5E = Code required to Bypass
6E = Control Button disables "Day/Chime" mode or directly Controls Outputs
7E = Repeat Current System alarm PA messages when Arming or Disarming
8E = Spare

- Option 1** **Cannot Arm if not Ready** - This option if turned on will inhibit arming of Area "A" if any zone in area A is unsealed (Not Ready). If the option is off, the area can be armed with zones unsealed but the panel will either auto-bypass the zone or go into alarm at the end of the exit delay depending upon other option settings. If required, certain zones can be exempted from this feature if they are in low security areas, allowing the area to be armed with a zone/s unsealed, by programming the zone group option at addresses P421E-P430E option 7. This option does not apply to Stay mode.
- Option 2** **Arm key required before code to arm** - This option determines if the "ARM" key must be pressed before a code is entered to arm Area "A". This option should be enabled where the keypad is assigned to more than one area.
- Option 3** **Stay key required before code to arm Stay Mode** - This option determines if the "STAY" key is a single button function or must be pressed followed by a code to turn on Stay Mode in Area "A". This option should be enabled where the keypad is assigned to more than one area. If off, Stay mode is turned on by pressing the Stay button only, if on, you must enter a code after pressing the stay button. When Arming Stay Mode, if the user presses the "Enter" button during the exit delay, this will cancel any

remaining exit delay time and make all Stay zones instant, even if they have an entry delay time programmed.

- Option 4 Code required to arm area** - If this option is off the area can be armed with a single press of the arm button, i.e. code not required. If this option is on, a valid Area "A" user code is required to arm the area.
- Option 5 Code required to bypass zones** - If this option is off all zones associated with the areas assigned to the keypad can be bypassed by anyone, i.e. no code is required. If this option is on, a valid Area "A" user code must be entered following pressing of the bypass button to allow any zone bypasses to occur. Also, only zones associated with the areas assigned to the user code can be bypassed in this mode.
- Option 6 Chime Button disables "Day/Chime" mode** - If this option is enabled, pressing the CHIME button for two seconds will disable the day alarms for the area assigned to the keypad. When the day alarms disable mode is active the "CHIME OFF" message will appear on the LCD display. To restore the day function simply press the CHIME button again. If the option is disabled (option Off) then the chime button is disabled.
- Option 6 Repeat Current System alarm PA messages when Arming or Disarming** - If this option is enabled, and a system alarm is still current (e.g. the Mains Voltage is OFF), the current alarm will be re-played over the internal speaker when Area A is armed or disarmed to alert the User that the problem still exists.

Note: P630E is the same as above but applies to Area B Keypad options

Note: P730E is the same as above but applies to Area C Keypad options

Note: P830E is the same as above but applies to Area D Keypad options

AREA "A" MISCELLANEOUS SPECIAL OPTIONS - P531E

AREA "B" MISCELLANEOUS SPECIAL OPTIONS - P631E

AREA "C" MISCELLANEOUS SPECIAL OPTIONS - P731E

AREA "D" MISCELLANEOUS SPECIAL OPTIONS - P831E

- P531E** 1E = Key-switch Input enabled
2E = Use 2nd Key-switch
3E = Key-switch is used for Arm or Stay
4E = Pendant chirps on Arming / disarming
5E = Pendant chirps on Stay Mode on / off
6E = 2 second output on Arming
7E = 2 second output on Disarming
8E = Cannot Arm if System Battery is Low

- Option 1 Key-switch Input enabled** - This option will enable the Key-switch input. The key-switch function is provided on the System tamper input using a 4k7 resistor in the type 3 or 4 zone wiring configuration (refer to the zone drawing on page 7). Operating the Key-switch input will arm Area "A" as determined by P601E option 7.
- Option 2 Use 2nd Key-switch** - This option will enable dual end of line configuration of the Tamper/Key-switch input and assign the high value end-of-line resistor (8k2) to Area "A" (refer to the zone drawing on page 7 Type 3 or 4). Operating the Key-switch input will arm Area "A" as determined by P601E option 8.
- Option 3 Key-switch is used for Arm or Stay** - If this option is on, operating the Key-switch will arm/disarm Area "A". If this option is off, operating the Key-switch will turn Area "A" Stay Mode on and off.
- Option 4 Pendant Chirps on arming / disarming** - This option will send two short pulses (Chirps) to the output mapped at P511E-P518E option 3 when Area "A" is armed via a radio key (Pendant) and four short pulses to the output when Area "A" is disarmed by a radio key.
- Option 5 Pendant Chirps on Stay Mode on / off** - This option will send two short pulses (Chirps) to the output mapped at P511E-P518E option 3 when Stay Mode for Area "A" is turned on with a radio key (Pendant) and four short pulses to the output when Area "A" Stay Mode is turned off by a radio key.
- Option 6 2 second output on Arming** - If this option is on, the output which is assigned by P511E-P518E option 5 will turn on for 2 seconds when Area "A" is armed.
- Option 7 2 second output on Disarming** - If this option is on, the output which is assigned by P511E-P518E option 5 will turn on for 2 seconds when Area "A" is disarmed.
- Option 8 Cannot Arm if System Battery is Low** - If this option is on, the Area cannot be armed if the system

Battery is Low. If the Option is off, the area may be armed even if the system Battery is Low.

Note: P631E is the same as above but applies to Area B Miscellaneous options

Note: P731E is the same as above but applies to Area C Miscellaneous options

Note: P831E is the same as above but applies to Area D Miscellaneous options

AREA "A" TIME AND DELAY OPTIONS - P532E

AREA "B" TIME AND DELAY OPTIONS - P632E

AREA "C" TIME AND DELAY OPTIONS - P732E

AREA "D" TIME AND DELAY OPTIONS - P832E

P532E 1E = Arm area when time zone ends -Default off
2E = Disarm area when time zone starts - Default off
3E = Disable stay mode exit delay - Default off
4E = Disable arm mode exit delay - Default off
5E = Disable stay mode entry delay - Default off
6E = Disable arm mode entry delay - Default off
7E = Use special stay mode entry delay - Default off
8E = Report alarms and bypasses in stay mode via Dialler - Default off

- Option 1** **Arm area when time zone ends** - this option will automatically arm area "A" when the time zone programmed at address P529E finishes.
- Option 2** **Disarm area when the time zone starts** - this option will automatically disarm area "A" when the time zone programmed at address P529E starts.
- Option 3** **Disable stay mode exit delay** - If this option is on the exit delay for area "A" becomes "0" when arming stay mode (the delay will still apply to full arm unless option 4 is also on).
- Option 4** **Disable arm mode exit delay** - If this option is on the exit delay for area "A" becomes "0" when arming the panel (the delay will still apply to stay mode unless option 3 is also on).
- Option 5** **Disable stay mode entry delay** - If this option is on then all zones are instant in stay mode regardless of any entry delays programmed to zones (entry delays will still apply to zones in full arm mode unless option 6 is also on).
- Option 6** **Disable arm mode entry delay** - If this option is on then all zones are instant in full arm mode regardless of any entry delays programmed to zones (entry delays will still apply to zones in stay mode unless option 5 is also on).
- Option 7** **Use special stay mode entry delay** - If this option is on then all Area A Stay mode zones use the special Stay Mode entry delay (P845E) in stay mode and the normal delays programmed at addresses P461E-P470E are ignored.
- Option 8** **Send alarms and bypasses in stay mode** - If this option is on then all alarms and zone bypasses in Stay mode will be reported via the dialler in Contact ID. Only zone alarms will be reported if using Domestic/ Voice or Pager reporting formats. You should also note that if a Stay mode alarm is not kissed off in Domestic/ Voice or Pager mode and the alarm is not disarmed, when the dialler test time comes around, the zone alarms will report again. If this is not desired you can stop this from happening by turning off all days for the test time at address P676E.

Note: P632E is the same as above but applies to Area B Time & Delay options

Note: P732E is the same as above but applies to Area C Time & Delay options

Note: P832E is the same as above but applies to Area D Time & Delay options

PARTITION "A" LOCAL PA ARM/DISARM MESSAGE OPTIONS - P533E

PARTITION "B" LOCAL PA ARM/DISARM MESSAGE OPTIONS - P633E

PARTITION "C" LOCAL PA ARM/DISARM MESSAGE OPTIONS - P733E

PARTITION "D" LOCAL PA ARM/DISARM MESSAGE OPTIONS - P833E

P533E 1E = Enable Local PA Area "A" Disarm message
2E = Use Canned Local PA Area "A" Disarm message
3E = Repeat Local PA Area "A" Disarm message
4E = Spare
5E = Enable Local PA Area "A" Arm message

6E = Use Canned Local PA Area "A" Arm message

7E = Repeat Local PA Area "A" Arm message

8E = Spare

- Option 1 Enable Local PA Disarm message.** When the Area is Disarmed, it is possible to play a pre-recorded speech message via the panels internal speaker. With this option on the panel is expecting a customised message to be programmed by the installer and the message numbers selected at addresses P865E-P868E, if no message number is programmed, the panel will not play any local PA message when Disarmed.
- Option 2 Use Canned Local PA Disarm message.** If option 1 above is on plus this option, the panel will play the default "Canned" audio message when this Area is Disarmed provided no message is programmed at addresses P865E-P868E.
- Option 3 Repeat Local PA Disarm message.** If option 1 or 2 or both are on above and this option is on, the panel will repeat the local PA message when the Area is disarmed.
- Option 4 Spare**
- Option 5 Enable Local PA Arm message.** When the Area is Armed, it is possible to play a pre-recorded speech message via the panels internal speaker. With this option on the panel is expecting a customised message to be programmed by the installer and the message numbers selected at addresses P861E-P864E, if no message number is programmed, the panel will not play any local PA message when Armed.
- Option 6 Use Canned Local PA Arm message.** If option 5 above is on plus this option, the panel will play the default "Canned" audio message when this Area is Armed provided no message is programmed at addresses P861E-P864E.
- Option 7 Repeat Local PA Arm message.** If option 5 or 6 or both are on above and this option is on, the panel will repeat the local PA message when the Area is Armed.

Note: P633E is the same as above but applies to Area B Local PA options

Note: P733E is the same as above but applies to Area C Local PA options

Note: P833E is the same as above but applies to Area D Local PA options

PARTITION "A" LOCAL PA STAY ARM MESSAGE OPTIONS - P534E

PARTITION "B" LOCAL PA STAY ARM MESSAGE OPTIONS - P634E

PARTITION "C" LOCAL PA STAY ARM MESSAGE OPTIONS - P734E

PARTITION "D" LOCAL PA STAY ARM MESSAGE OPTIONS - P834E

P534E 1E = Enable Local PA Area "A" Stay Armed message

2E = Use Canned Local PA Area "A" Stay Armed message

3E = Repeat Local PA Area "A" Stay Armed message

4E = Spare

5E = Spare

6E = Spare

7E = Spare

8E = Spare

- Option 1 Enable Local PA Stay Armed message.** When the Area is Armed in Stay mode, it is possible to play a pre-recorded speech message via the panels internal speaker. With this option on the panel is expecting a customised message to be programmed by the installer and the message numbers selected at addresses P869E-P872E, if no message number is programmed, the panel will not play any local PA message when Stay mode is armed.
- Option 2 Use Canned Local PA Disarm message.** If option 1 above is on plus this option, the panel will play the default "Canned" audio message when this Area is Armed in Stay mode provided no message is programmed at addresses P869E-P872E.
- Option 3 Repeat Local PA Disarm message.** If option 1 or 2 or both are on above and this option is on, the panel will repeat the local PA message when the Area is Armed in Stay mode.

Note: P634E is the same as above but applies to Area B Local PA options

Note: P734E is the same as above but applies to Area C Local PA options
Note: P834E is the same as above but applies to Area D Local PA options

AREA "A" DIALLER REPORTING OPTIONS - P535E

AREA "B" DIALLER REPORTING OPTIONS - P635E

AREA "C" DIALLER REPORTING OPTIONS - P735E

AREA "D" DIALLER REPORTING OPTIONS - P835E

P535E 1-8E Area A Reporting Options - Default 1,2

- 1 = Send Arm/Disarm**
- 2 = Send Stay Mode Arm/Disarm**
- 3 = Send Disarm only after activations**
- 4 = Send Stay Disarm only after activations**
- 5 = Send Arm at the end of the exit delay**
- 6 = Send all zone restores when disarmed**
- 7 = Spare**
- 8 = Spare**

- Option 1** **Send Arm / Disarm** - If this option is on, the dialler will report Area "A" arms and disarms.
- Option 2** **Send Stay Mode Arm / Disarm** - If this option is on, the dialler will report Area "A" stay mode arms and disarms.
- Option 3** **Send Disarm only after activation** - If this option is on, the dialler will report an Area A disarm following an alarm activation only. This option is often used in conjunction with alarm only reporting and stops the normal arm/disarm signals from being sent. If this option is on it will override the option 1 setting.
- Option 4** **Send Stay Mode Disarm only after activation** - If this option is on, the dialler will report an Area A Stay Mode disarm following an alarm activation only. This option is often used in conjunction with alarm only reporting and stops the normal Stay Mode arm/disarm signals from being sent. If this option is on it will override the option 2 setting.
- Option 5** **Send Arm at the end of the exit delay** - If this option is Off, the dialler will report an Arm immediately the panel is armed. If the option is On, the Arm report is sent at the expiry of the exit delay.
- Option 6** **Send all zone restores when disarmed** - If this option is off, the dialler will send all zone restores as they occur. If the option is on, the dialler will send all zone restores only when the panel is disarmed. If the option is On, only one restore will be sent for each zone that activates regardless of whether the zones can send multiple alarm reports.

P635E 1-8E Area "B" Reporting Options - (see above for details) Default 1,2

P735E 1-8E Area "C" Reporting Options - (see above for details) Default 1,2

P835E 1-8E Area "D" Reporting Options - (see above for details) Default 1,2

AREA "A" DIALLER REPORTING ACCOUNT NUMBER - P536E

AREA "B" DIALLER REPORTING ACCOUNT NUMBER - P636E

AREA "C" DIALLER REPORTING ACCOUNT NUMBER - P736E

AREA "D" DIALLER REPORTING ACCOUNT NUMBER - P836E

The account number is a four digit number that is sent every time the dialler reports alarms in Contact ID or 4+2 mode. The account code is also included in the Pager transmission. The special characters of B,C,D,E & F can be programmed as any of the 4 digits of the account code (see chart on page 54 for details).

AREA "A" ARM/DISARM REPORTING SCENARIO NUMBER - P537E

AREA "B" ARM/DISARM REPORTING SCENARIO NUMBER - P637E

AREA "C" ARM/DISARM REPORTING SCENARIO NUMBER - P737E

AREA "D" ARM/DISARM REPORTING SCENARIO NUMBER - P837E

The Arm/Disarm Scenario number is the telephone number or numbers that the panel will report to when sending the

Arm & Disarm signals for each Area.

AREA "A" CHILD DISARM REPORTING SCENARIO NUMBER - P538E

AREA "B" CHILD DISARM REPORTING SCENARIO NUMBER - P638E

AREA "C" CHILD DISARM REPORTING SCENARIO NUMBER - P738E

AREA "D" CHILD DISARM REPORTING SCENARIO NUMBER - P838E

The Child Disarm Scenario number is the telephone number or numbers that the panel will report to when sending the Disarm signal following disarm by a child returning home and turning the alarm off. The format that the panel will send is also programmable via the telephone number/s used e.g. this report would most likely use the Voice reporting format.

PROGRAMMING RADIO DETECTORS

ENROLLING RADIO DETECTORS - P540E 1-60E

This address is where radio PIR's, Reed switches and other wireless detectors are enrolled into the PW64 and assigned to zones.

To load a radio detector whilst in installer program mode, for example Zone 1, press P540E1E. The keypad will beep at 1 second intervals and the green learn mode LED on the Radio receiver board (RX-16) will flash on & off. Trigger the detector you wish to enrol at this address (Zone 1) The keypad will stop beeping and the receiver learn LED will go out when the detectors code has been stored. Repeat this sequence for all of the radio detectors moving through the addresses which correspond to the zones you require. Remember: for a zone to work it MUST have a Zone Group number assigned at addresses P341E-P404E.

(If the zone Group assigned to a zone {P341-P404E} is set to a radio device type that incorporates a tamper switch before attempting to load the radio zone , e.g. Type #5 "Crow Fremlink protocol" at addresses P441-P450E, then the panel will only load on the tamper switch opening alarm transmission. If the radio device type for the assigned group is "0" the panel will load on any transmission).

For example;	P540E2E	Radio Zone #2
	P540E3E	Radio Zone #3
	P540E60E	Radio Zone #60

To delete a single radio code, repeat the learning process above but while in learn mode press the "Enter" button while no transmitters are operating, and this will remove any radio code from that address.

PROGRAMMING RADIO KEYS

ENROLLING RADIO KEYS - P550E 21-100E

In the PW64 we refer to wireless pendant transmitters as "Radio Keys". Because the PW64 recognises each button as a separate function or user we refer to each button or user separately in that if you are loading a three button radio key, you would actually be enrolling 3 separate radio users. It is possible to enrol several radio users as one where you are able to program the transmitter code of the radio key (usually via dip switches) to key them alike. Where you cannot program the transmitter code of the radio keys you must enrol them as separate users.

(Radio Pendants can occupy User slots 21-100. If a Pendant is programmed against a User slot, that User slot is not available as a Code User).

To load a radio key whilst in installer program mode, for example radio key 21, press P550E21E. The keypad will beep at 1 second intervals and the green learn mode LED on the Radio receiver board (RX-16) will flash on & off. Trigger the transmitter you wish to enrol at this address (Radio key 21). The keypad will stop beeping and the receiver learn LED will go out when the transmitters code has been stored. Repeat this sequence for all of the radio keys moving through the addresses which correspond to the keys you require.

For example;	P550E22E	Radio Key #22
	P550E23E	Radio Key #23
	P550E100E	Radio Key #100

To delete a single radio key, repeat the learning process above but while in learn mode press the "Enter" button , while no transmitters are operating, and this will remove any radio key code from that address.

ERASING INDIVIDUAL RADIO CODES WHILE TRANSMITTING - P560E

P560E Erase a Transmitted radio code from All Memory Locations

When erase mode is started and the panel gets a code from the receiver, if that code exists in memory and its radio device type is "0" {see P540E above}, the code will be erased from memory. If the code found in memory has a radio device type that incorporates a tamper switch, e.g. Type #5 "Crow Fremlink protocol" at addresses P441-P450E, then the panel will only erase on the tamper switch opening alarm transmission.

ITA RECEIVED SIGNAL STRENGTH (RSSI) FOR RADIO ZONES - P569E 1-60E RECEIVED SIGNAL STRENGTH (RSSI) FOR RADIO ZONES - P570E 1-60E

The alarm panel has the ability to display the signal strength of the received signal from individual detectors. To eliminate confusion when multiple detectors are in operation, the panel will only display the RSSI level of a detector that is specified at this address. The detector **MUST** be enrolled into the panel for this to work. The RSSI option can be accessed from Client or Installer program modes. In Client mode, the user must have option 7 at addresses P221E-P240E assigned to their code for them to be allowed to start the RSSI mode.

To display the RSSI level of detector number 10 press P570E10E.

Now trigger the detector and return back to the keypad. The level of the last transmission from detector number 10 will be displayed at the keypad with a reading of 1-100%. Received signals from other detectors will be ignored by the panel during the RSSI reading.

The ITA mode at address P569E is the same as P570E with the exception that the lower limit has been raised to approximately 30%. This means that any signals that do not exceed the 30% minimum threshold will not display any value in the ITA RSSI mode.

RECEIVED SIGNAL STRENGTH (RSSI) FOR RADIO KEYS - P580E 21-100E

The alarm panel has the ability to display the signal strength of the received signal from individual radio keys. To eliminate confusion when multiple transmitters are in operation, the panel will only display the RSSI level of a Radio key that is specified at this address. The radio key **MUST** be enrolled into the panel for this to work. The RSSI option can be accessed from Client or Installer program modes. In Client mode, the user must have option 7 at addresses P221E-P240E assigned to their code for them to be allowed to start the RSSI mode.

To display the RSSI level of radio key number 50 press P580E50E.

Now operate the radio key at a distance from the panel then return back to the keypad. The level of the last transmission from radio key number 50 will be displayed at the keypad with a reading of 1-100%. Received signals from other radio keys will be ignored by the panel during the RSSI reading.

GENERAL OUTPUT PROGRAM OPTIONS

PRIMARY OUTPUT OPTIONS - P541E-P548E

This block of addresses (P541E - P548E) are used to map output modifiers to each of the 8 outputs available on the PW64. The optional 4 way relay output board (OUTPUTX4) can be configured to follow the program options for any of the 8 outputs, the 4 relays can be assigned as output 1 or 5, 2 or 6, 3 or 7 & 4 or 8.

- P541E** **1E = Invert output #1** - Default off
 2E = Flash output #1 - Default off
 3E = Single pulse to output #1 - Default off
 4E = Lockout output #1 once reset - Default off
 5E = Output mapped to Remote Command Control - Default off
 6E = Output mapped to local Command Control - Default off
 7E = Day zones linked to pulse timer - Default off
 8E = Output pulses on a 24 hour zone alarm - Default off

- Option 1 Invert Output** - This option is used to invert the normal state of the output. The PW64 has an in-built piezo siren on output #1, open collector type transistor switches for outputs 2&3 and a relay for output #4. The invert function would not normally be used for output #1 as this would result in the piezo sounding continuously. The default state of outputs 2&3 are off (open circuit) and the relay on output 4 is not energised.. When in alarm the transistor switches are turned on (low or at 0V) and the relay is energised. The invert option reverses this function.
- Option 2 Flash Output** - This option causes the output to switch on and off at a rate set by the pulse timer for the output when in alarm and is normally used to flash a lamp during an activation.
- Option 3 Single Pulse to Output** - This option, when applied, produces a single pulse set by the pulse timer at the output during an alarm.
- Option 4 Lockout Once Reset** - This option is used to limit the output to one operation per arming period.
- Option 5 Output mapped to Remote Command Control** - This option is used to map an output to the remote

command control function whereby the output can be controlled via the telephone.

- Option 6 Output mapped to Local Command Control** - This option is used to map an output to the local command control feature whereby the output can be controlled directly from the keypad. To directly control outputs with this option turned on, the user must press the "Control" button on the keypad for 2 seconds. The display will read "OUTPUTS". Any outputs that are currently on will have their number shown on the LCD display. To turn outputs On or Off simply press the number that corresponds to the output you wish to control. The output number on the display will follow the output state e.g. if the output is on, the corresponding number will be on, if off, no number will be displayed.
- Option 7 Day Zones Linked to Pulse Timer** - Day Zones programmed to operate this output will pulse the output at the rate programmed for the pulse timer (e.g. if it is output #1 then the timer at P781E applies).
- Option 8 Pulsed 24 hour alarm** - If a 24 hour zone activates the alarm this option will cause the output to pulse at a rate equal to the value set for the pulse timer for this output. This feature is provided to differentiate between a burglar and fire alarm using the same siren.

P542E - P548E As per P541E above for Outputs 2-8

ALARMS TO OUTPUT OPTIONS - P551E - P558E

In this block of addresses P551E relates to output #1, P552E relates to output #2 etc

P551E **1E = Keypad Panic Alarm to Output #1**
 2E = Keypad Fire Alarm to Output #1
 3E = Keypad Medical Alarm to Output #1
 4E = Duress Alarm to Output #1
 5E = Wrong Code Tamper Alarm to Output #1
 6E = Radio Key Panic Alarm to Output #1
 7E = 24 Hour Zone Alarm to Output #1
 8E = 24 Hour Fire Zone Alarm to Output #1

- Option 1 Keypad Panic to Output** - This option is used to map the operation of the keypad panic to an output i.e. when the "Chime" & "Control" buttons on the keypad are pressed simultaneously any output with this option enabled will turn on.
- Option 2 Keypad Fire Alarm to Output** - This option is used to map the operation of the keypad Fire Alarm to an output i.e. when the "A" & "B" buttons on a keypad are pressed simultaneously any output with this option enabled will turn on.
- Option 3 Keypad Medical Alarm to Output** - This option is used to map the operation of the keypad Medical Alarm to an output i.e. when the "B" & "Chime" buttons on a keypad are pressed simultaneously any output with this option enabled will turn on.
- Option 4 Duress Alarm to Output** - This option is used to map a Duress Alarm to an output. A Duress Alarm is generated when the alarm is unset by a valid user that adds the duress digit to the beginning of their code.
- Option 5 Wrong Code Tamper Alarm to Output** - This option is used to map the Wrong Code Tamper Alarm to an output. A Wrong Code Tamper Alarm is generated if an invalid code is entered more than 4 times at a keypad. This option will cause the output to turn on when this alarm condition is present.
- Option 6 Radio Key Panic Alarm to Output** - This option is used to map the operation of the Radio Key Panic Alarm to an output i.e. when the Radio Panic is generated any output with this option enabled will turn on.
- Option 7 24 Hour Zone Alarm to Output** - This option is used to map 24 Hour Zone Alarms to an output i.e. when the 24 Hour Zone Alarm is generated any output with this option enabled will turn on.
- Option 8 24 Hour Fire Zone Alarm to Output** - This option is used to map 24 Hour Fire Alarms to an output. When the 24 Hour Fire Alarm is generated this will cause the output to flash at a rate set by the pulse timer for this output to identify the difference between a fire alarm and normal burglar alarm.

SECONDARY ALARMS TO OUTPUT OPTIONS - P561E - P568E

In this block of addresses P561E relates to output #1, P562E relates to output #2 etc

P561E **1E = Zone Tamper Alarm to Output #1**
 2E = System Tamper Alarm to Output #1
 3E = Mains Failure to Output #1
 4E = Panel Battery Low to Output #1
 5E = Telephone Line Failure to Output #1
 6E = Dialler Failure to get a Kiss-off to Output #1
 7E = Automatic Pulse to Output #1
 8E = 24 Hour Smoke Reset to Output #1

- Option 1 Zone Tamperers to Output** - When a zone tamper alarm occurs this address is used to map the Zone Tamperers to an output.
- Option 2 System Tamper Alarm to Output** - This option is used to map activations of the common Tamper Input to an output. This common tamper input is normally used to monitor the panel cabinet and satellite tamper switches.
- Option 3 Mains Failure To Output** - A mains failure will be indicated at the output when this option is enabled. The Alarm Reset Timer for this output must be set to "0".
- Option 4 Panel Battery Low to Output** - A battery Low condition will be indicated at the output when this option is enabled. The Alarm Reset Timer for this output must be set to "0".
- Option 5 Telephone Line Failure to Output** - A telephone line failure will be indicated at this output when the option is enabled. When the line restores this output will return to normal. Set the reset time to "0".
- Option 6 Dialler Failure to get a Kiss-off to Output** - If the dialler reaches its maximum dialling attempts for an alarm condition and is not kissed off, this failure will be indicated at the output. When this alarm event is accessed via Memory Mode at any keypad the output will reset back to normal. Set the reset time to "0".
- Option 7 Automatic Pulse to Output** - This option will cause the output to pulse (at a rate set by the pulse timer for the output) every 5 seconds. It is primarily designed to flash an external light to show that the alarm is still active (reassurance indication).
- Option 8 24 Hour Smoke Reset to Output** - This option will cause the output to pulse for 2 seconds on arming of any Area following a 24 Hour zone alarm. It is designed to allow automatic reset of hardwired, latching smoke detectors following an alarm.

OUTPUT LOCAL PA MESSAGE OPTIONS - P571E-P578E

P571E **1E = Enable Local PA Output #1 ON message**
 2E = Use Canned Local PA Output #1 ON message
 3E = Repeat Local PA Output #1 ON message
 4E = Spare
 5E = Enable Local PA Output #1 OFF message
 6E = Use Canned Local PA Output #1 OFF message
 7E = Repeat Local PA Output #1 OFF message
 8E = Spare

- Option 1 Enable Local PA Output ON message.** When the Output is turned ON, it is possible to play a pre-recorded speech message via the panels internal speaker. With this option on the panel is expecting a customised message to be programmed by the installer and the message numbers selected at addresses P891E-P898E, if no message number is programmed, the panel will not play any local PA message when the Output turns ON.
- Option 2 Use Canned Local PA Output ON message.** If option 1 above is on plus this option, the panel will play the default "Canned" audio message when the Output turns ON provided there is no value set at addresses P891E-P898E.
- Option 3 Repeat Local PA Disarm message.** If option 1 or 2 or both are on above and this option is on, the

panel will repeat the local PA message when the Output turns ON.

Option 4 Spare

Option 5 Enable Local PA Output OFF message. When the Output is turned OFF, it is possible to play a pre-recorded speech message via the panels internal speaker. With this option on the panel is expecting a customised message to be programmed by the installer and the message numbers selected at addresses P901E-P908E, if no message number is programmed, the panel will not play any local PA message when the Output turns ON.

Option 6 Use Canned Local PA Arm message. If option 5 above is on plus this option, the panel will play the default "Canned" audio message when the Output turns OFF provided there is no value set at addresses P901E-P908E.

Option 7 Repeat Local PA Arm message. If option 5 or 6 or both are on above and this option is on, the panel will repeat the local PA message when the Output turns OFF.

OUTPUT AUTO ON/OFF TIME ZONES - P581E - 588E

These addresses are used to map automatic ON and OFF periods to each of the outputs if required. When a time-zone starts it will cause the output to turn on and when the time-zone ends it will cause the output to turn off. The actual times assigned to each time-zone are defined at addresses P921E - P944E. Multiple Time Zones may be assigned to each output.

P581E T/Z E Where T/Z represents a Time-Zone # from 1-8 which defines the turn on and turn off times required for output #1

P582E T/Z E Where T/Z represents a Time-Zone # from 1-8 which defines the turn on and turn off times required for output #2

P583E T/Z E Where T/Z represents a Time-Zone # from 1-8 which defines the turn on and turn off times required for output #3

P584E - P588E As per above but for outputs 4-8

NOTE: A value of zero (0) at these addresses will disable any auto turn on turn off features at that output.

OUTPUT INHIBIT TIME ZONES - P591E - P598E

These addresses are used to map inhibit time-zones to each of the outputs as required. The assigned time-zone will enable the output so that it can be used during the time-zone. If an output has a time-zone assigned and that time-zone is off, the output cannot be turned on by any programmed function (the output is inhibited). The actual times assigned to each time-zone are defined at addresses P921E - P944E. This feature can be used to allow the audible alarms to only occur at pre-determined times and days.

P591E T/Z E Where T/Z represents the time zone which enables output #1

P592E T/Z E Where T/Z represents the time zone which enables output #2

P593E T/Z E Where T/Z represents the time zone which enables output #3

P594E - P598E As per above but for outputs 4-8

NOTE: A value of zero (0) at these addresses will enable that output at all times.

MISCELLANEOUS PANEL OPTIONS

MISCELLANEOUS PANEL OPTIONS - P601E

- P601E 1E** Ignore Mains input
- 2E** Ignore zone tampers during exit delay
- 3E** Installer has direct access to program mode
- 4E** Installer lockout
- 5E** Cabinet tamper is loop or end-of-line
- 6E** Zones 61-64 use EOL resistor or short circuit loop
- 7E** Low Key-switch is momentary or latching
- 8E** High Key-switch is momentary or latching

- Option 1** **Ignore Mains Input** - If the panel must be run off a 12V DC supply only such as a solar application the 12V can be applied to the battery input and the mains input is ignored.
- Option 2** **Ignore Zone tampers during exit delay** - If this option is on, any zone tampers created during the exit delay will be ignored. When the delay expires the zone tampers will be active again.
- Option 3** **Installer has direct access to program mode** - If this option is on, the installer code will allow access directly to Installer Program Mode provided no areas are armed or in stay mode.
- Option 4** **Installer lockout** - If this option is on, the installer "Back Door" power up access to program mode will be disabled. When this option is on the installer code is the only method of accessing installer program mode.
- Option 5** **Cabinet tamper is loop or end-of-line** - This option determines if the Cabinet tamper input uses a closed loop or 2k2 end-of-line resistor. If this option is on the tamper requires a 2k2 resistor.
- Option 6** **Zones 61-64 use EOL resistor or short circuit loop** - This option determines if the hardwired zone inputs (1+3) & (2+4) use a closed loop or 2k2 end-of-line resistor. If this option is on the inputs require a 2k2 resistor. Please refer to the wiring diagram on page 7 for more details.
- Option 7** **Low Key-switch is momentary or latching** - This option determines if the low Key-switch (4k7) is momentary or latching. If this option is on the low Key-switch will be momentary.
- Option 8** **High Key-switch is momentary or latching** - This option determines if the high Key-switch (8k2) is momentary or latching. If this option is on the high Key-switch will be momentary.

MISCELLANEOUS PANEL OPTIONS Cont. - P602E

- P602E** **1E = Zone Doubling on input 61 (Zone 63 enabled)**
 2E = Zone Doubling on input 62 (Zone 64 enabled)
 3E = RSSI Scale
 4E = Send Output data to keypad buss (Off = No O/P data on buss)
 5E = Output 1 switched or siren mode
 6E = Inhibit Arming if "Supervision Failure" alarm active
 7E = Test for RF Interference
 8E = Installer Must Reset a System Tamper Alarm
- Option 1** **Zone Doubling on input 61 (Zone 63 enabled)** - The input terminals labelled 1+3 on the control board are for the connection of zones 61 & 63. If this option is turned off, zone doubling is not enabled and so zone 63 is disabled. If turned on, 63 is active. Please see the wiring diagrams on page 7 for further details.
- Option 2** **Zone Doubling on input 62 (Zone 64 enabled)** - The input terminals labelled 2+4 on the control board are for the connection of zones 62 & 64. If this option is turned off, zone doubling is not enabled and so zone 64 is disabled. If turned on, 64 is active. Please see the wiring diagrams on page 7 for further details.
- Option 3** **RSSI Scale** - The alarm panel can have either an FSK or ASK receiver fitted. The default receiver is the FSK Freelink receiver. Depending on the receiver used, the Received Signal Strength (RSSI) scale will differ. By default the panel is set for the Freelink scale with this option on, but if the ASK receiver is used this option must be turned off.
- Option 4** **Send Output data to keypad buss** - This option allows the output updates to the keypad buss for the OUTPUTX4 board to be turned off if not needed. If the option is Off it means no updates to the buss.
- Option 5** **Output 1 switched or siren mode** - This option will be implemented in future hardware versions
- Option 6** **Inhibit Arming if "Radio Activity Failure" alarm active** - If this option is off, the panel can be armed even if no signals have been received from any programmed radio detectors within the preset period programmed at address P789E. If this option is turned on, and no signals have been received from any radio detectors within the programmed time set at P789E, the panel cannot be armed until a new transmission is received. This option should only be used when supervised detectors are being used.

Option 7 Test for RF Interference - The panel can automatically test the RSSI output of the receiver to see if there is an excessive amount of RF activity. If there is more than 30 seconds of received data within any 60 second period, the panel will display an "RF Fault" message and beep the keypad buzzer if programmed to do so at address P664E. If this feature is required it may be enabled by turning on option 7.

Option 8 Installer Must Reset a System Tamper Alarm - If this option is off, the panel can still be used normally if a system tamper alarm occurs. If the option is turned on, and a system tamper alarm occurs, the user can reset the alarm but cannot Arm the system until the alarm is reset by an Installer. For the installer to reset the arm inhibit, they must enter Installer program mode. The installer cannot reset the tamper alarm if any areas are armed. The installer must also go into installer program mode via client program mode to reset the panel correctly so the installer direct access to program mode feature Must be turned off (P601E Option 3).

PROGRAMMING KEYPAD OPTIONS

KEYPAD OPTIONS - P640E - P671E

The block of addresses from P640E to P673E are used to assign the basic options of each keypad in the system. Each of the addresses from P640E to P673E may have 8 options assigned where the 8 options represent the programmed keypad number. i.e. if options 1, 2 & 4 are enabled at address P640E then keypads 1, 2 and 4 would be assigned to area "A". The keypad inside the main housing is factory set to keypad address #1.

NOTE: A keypad can only be used to control the area to which it has been assigned.

P640E	1-8E	Keypads assigned to Area A (Default 1-8) If the option is On, the keypad is assigned to Area A.
P641E	1-8E	Keypads assigned to Area B (Default none) If the option is On, the keypad is assigned to Area B.
P642E	1-8E	Keypads assigned to Area C (Default none) If the option is On, the keypad is assigned to Area C.
P643E	1-8E	Keypads assigned to Area D (Default none) If the option is On, the keypad is assigned to Area D.
P644E	1-8E	Keypads with permission to fully Arm (Default 1-8) If the option is On, the keypad is allowed to Arm the assigned Area/s.
P645E	1-8E	Keypads with permission to arm Stay Mode (Default 1-8) If the option is On, the keypad is allowed to Arm Stay Mode for the assigned Area/s.
P646E	1-8E	Keypads with permission to use the Control Button (Default 1-8) If the option is On, the keypad can operate the "Control" button.
P647E	1-8E	Keypads with permission to Bypass (Default 1-8) If the option is On, the "Bypass" button on the keypad is enabled.
P648E	1-8E	LED Keypads with Panic button enabled (Default 1-8) If the option is On, and an LED keypad is connected to the panel, the "Panic" button on LED keypads is enabled and is instant.
P649E	1-8E	LED Keypads with delayed Panic button enabled (Default 1-8) If the option is On, and an LED keypad is connected to the panel, the "Panic" button on LED keypads must be held down for 2 seconds to create a panic alarm. The option at address P648E MUST be off for the delayed option to work.
P650E	1-8E	Keypads with Dual Button Panic Alarm enabled (Default 1-8) If the option is On, pressing the "Control" & "Chime" buttons simultaneously will create a Panic alarm at the keypad.
P651E	1-8E	Keypads with Dual Button Fire Alarm enabled (Default 1-8) If the option is On, pressing the "A" & "B" buttons simultaneously will create a Fire alarm at the keypad.
P652E	1-8E	Keypads with Dual Button Medical Alarm enabled (Default 1-8) If the option is On, pressing the "B" & "Chime" buttons simultaneously will create a Medical alarm at the keypad
P653E	1-8E	Keypads with buzzer mapped to normal zone alarms (Default 1-8) If the option is On, a Zone alarm during the Armed state will cause the Keypad buzzer to sound

(audible alarm) at the keypad.

- P654E 1-8E Keypads with buzzer mapped to stay mode zone alarms** (Default 1-8)
If the option is On, a Stay Mode Zone alarm during the Armed state will cause the Keypad buzzer to sound (audible alarm) at the keypad.
- P655E 1-8E Keypads with buzzer mapped to 24 hour zone alarms** (Default 1-8)
If the option is On, a 24 Hour Zone alarm will cause the Keypad buzzer to sound (audible alarm) at the keypad.
- P656E 1-8E Keypads with buzzer mapped to day mode alarms** (Default 1-8)
If the option is On, a Day Zone alarm will cause the Keypad buzzer to sound (audible alarm) at the keypad.
- P657E 1-8E Keypads with buzzer mapped to armed mode exit delay beeps** (Default 1-8)
If the option is On, the keypad will sound the exit beeps when the system is armed to indicate the exit delay has started.
- P658E 1-8E Keypads with buzzer mapped to stay mode exit delay beeps** (Default 1-8)
If the option is On, the keypad will sound the exit beeps when stay mode is armed to indicate the exit delay has started.
- P659E 1-8E Keypads with buzzer mapped to entry delay beeps** (Default 1-8)
If the option is On, the keypad will sound the entry beeps to indicate the entry delay has started.
- P660E 1-8E Keypad buzzer to warn of zone inactivity or supervised radio timeout alarm** (Default 1-8)
If the option is On, a Supervised Radio signal failure or no activity on a zone for the programmed period will cause the buzzer at the keypad to sound. Pressing any button will silence the beep.
- P661E 1-8E Keypads with buzzer mapped to keypad tampers** (Default 1-8)
If the option is On, a keypad tamper alarm (four incorrect attempts to enter in a code) will cause the buzzer at the keypad to sound.
- P662E 1-8E Keypads with buzzer mapped to zone tampers** (Default 1-8)
If the option is On, a zone tamper alarm will cause the buzzer at the keypad to sound.
- P663E 1-8E Keypads with buzzer mapped to system tampers** (Default 1-8)
If the option is On, a system tamper alarm or a remote LCD keypad tamper switch alarm will cause the buzzer at the keypad to sound.
- P664E 1-8E Keypads with buzzer mapped to indicate RF signal blocked** (Default none)
If the option is On, any received RF data that adds up to more than 30 seconds within a 60 second period will cause the keypad buzzer to sound.
- P665E 1-8E Keypads with buzzer mapped to Pendant "Panic" Alarm** (Default 1-8)
If the option is On, a radio Pendant Panic alarm will cause the buzzer at the keypad to sound.
- P666E 1-8E Keypads with buzzer mapped to keypad "Panic" Alarm** (Default 1-8)
If the option is On, a Keypad Panic alarm will cause the buzzer at the keypad to sound.
- P667E 1-8E Keypads with buzzer mapped to keypad "Fire" Alarm** (Default 1-8)
If the option is On, a Keypad Fire alarm will cause the buzzer at the keypad to sound.
- P668E 1-8E Keypads with buzzer mapped to keypad "Medical" Alarm** (Default 1-8)
If the option is On, a Keypad Medical alarm will cause the buzzer at the keypad to sound.
- P669E 1-8E Keypads with buzzer mapped to phone line failure** (Default none)
If the option is On, a Telephone Line Failure will cause the buzzer at the keypad to sound.. Pressing any button will silence the beep.
- P670E 1-8E Keypads with facility to turn the LED's off after Exit Delay** (Default none)
If the option is On, the keypad LED's, plus the LCD display & keypad backlighting on the selected keypad/s will turn off when all areas assigned to the keypad are Armed or in Stay mode. The LED's and backlighting will automatically turn on again if there is an alarm, an entry delay is started, any button is pressed at the keypad or when the system is Disarmed.
- P671E 1-8E Keypads that will turn off all LED's and backlighting during power failure** (Default none)
If the option is On, the keypad LED's, plus the LCD display & keypad backlighting on the selected keypad/s will turn off when the external supply is off. The LED's and backlighting will automatically turn on again when the power returns. During a power failure, if the LED's and Backlighting are off, pressing the "Enter" button will turn them on for 20 seconds.
- P672E 1-8E Keypad "A" button special arming options** (Default 1)
The "A" button on the keypad can be assigned a single button arm function for any or all of the four areas. To arm the alarm, the "A" button must be held down for 2 seconds. As well as assigning an Area or areas to the button, it can also allow arming of the special Child disarm reporting mode. If given this function, and the alarm is disarmed with a child code (see P221E-P240E option 8), the panel will report the disarm to a selected telephone number/s.
- P673E 1-8E Keypad "B" button special arming options** (Default 2)
The "B" button on the keypad can be assigned a single button arm function for any or all of the four areas. To arm the alarm, the "B" button must be held down for 2 seconds. As well as

assigning an Area or areas to the button, it can also allow arming of the special Child disarm reporting mode. If given this function, and the alarm is disarmed with a child code (see P221E-P240E option 8), the panel will report the disarm to a selected telephone number/s.

P672 & P763 SPECIAL ARMING OPTIONS

1 = Arms Area A
2 = Arms Area B
3 = Arms Area C
4 = Arms Area D

5 = Arms in "Child Disarm" report Mode
6 = Spare
7 = Spare
8 = Spare

PROGRAMMING DELAYS & TIMERS

OUTPUT RESET TIMES - P761E to P768E

This is the time the output will turn on for until it automatically resets again. A Zero means the output stays on until the trigger is reset at the keypad.

P761E	0-999E	Output #1 reset time - Default 600 seconds (10 min)
P762E	0-999E	Output #2 reset time - Default 600 seconds (10 min)
P763E	0-999E	Output #3 reset time - Default 600 seconds (10 min)
P764E	0-999E	Output #4 reset time - Default 600 seconds (10 min)
P765E	0-999E	Output #5 reset time - Default 0 (latching)
P766E	0-999E	Output #6 reset time - Default 0 (latching)
P767E	0-999E	Output #7 reset time - Default 0 (latching)
P768E	0-999E	Output #8 reset time - Default 0 (latching)

MAINS FAIL REPORTING DELAY TIME - P769E

The Mains voltage (AC input) must fail for longer than this time before it will report via the dialler or play the local PA message.

P769E 0-999E Mains Fail Dialler Report Delay - Default 600 seconds

ZONE ALARM REPORT DELAY TIME - P770E

When the panel is armed and a zone alarm occurs, if there is a value programmed at this address the reporting of the alarm signal via the dialler will be aborted for this period of time. If the alarm is disarmed before this time expires, no alarm will be sent.

P770E 0-999E Zone Alarm Report Delay to Dialler - Default 0 seconds

OUTPUT DELAY ON TIMES - P771E to P778E

If the output is turned on for some reason and a value is programmed at this address, the turning on of the output will be delayed by this time.

P771E	0-999E	Output #1 delay on timer - Default 0 (instant)
P772E	0-999E	Output #2 delay on timer - Default 0 (instant)
P773E	0-999E	Output #3 delay on timer - Default 0 (instant)
P774E	0-999E	Output #4 delay on timer - Default 0 (instant)
P775E	0-999E	Output #5 delay on timer - Default 0 (instant)
P776E	0-999E	Output #6 delay on timer - Default 0 (instant)
P777E	0-999E	Output #7 delay on timer - Default 0 (instant)
P778E	0-999E	Output #8 delay on timer - Default 0 (instant)

SUPERVISED RADIO SIGNAL TIME # 1 - P779E

If a wireless detector type that has a supervised signal is set for a particular zone group the panel will be monitoring all supervised zones for the supervisory transmission. Every time a supervised signal is received from a detector the supervisory timer for that detector will be reset. If the timer expires due to no transmissions from a detector, the panel will generate a supervised failure for that detector.

P779E 0-255E Supervised Radio Timer # 1 (0-255 minutes) - Default 240 minutes

SUPERVISED RADIO SIGNAL TIME # 2 - P780E

If a wireless detector type that has a supervised signal is set for a particular zone group the panel will be monitoring all supervised zones for the supervisory transmission. Every time a supervised signal is received from a detector the supervisory timer for that detector will be reset. If the timer expires due to no transmissions from a detector, the

panel will generate a supervised failure for that detector. This second timer allows for devices with longer supervised transmission delay periods to be used on the same system.

P780E 0-255E Supervised Radio Timer # 2 (0-255 minutes) - Default 240 minutes

OUTPUT PULSE TIMES - P781E to P788E

The pulse timer is a time set in 1/10 second intervals that can pulse the output at a fast rate.

P781E	0-999E	Output #1 pulse time -Default 0 (0 = Minimum 0.1 sec pulse) Times are in 1/10 second
P782E	0-999E	Output #2 pulse time -Default 0 (0 = Minimum 0.1 sec pulse) increments
P783E	0-999E	Output #3 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P784E	0-999E	Output #4 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P785E	0-999E	Output #5 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P786E	0-999E	Output #6 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P787E	0-999E	Output #7 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)
P788E	0-999E	Output #8 pulse time -Default 0 (0 = Minimum 0.1 sec pulse)

RADIO SIGNAL FAILURE TIMER - P789E

If this timer is set to "0", no radio activity monitoring will occur. If it is set to any value other than "0", the panel will be checking to see that at least one of the programmed devices has been received within the timed period. Every time a programmed radio detector is received, this timer is reset. If no signals have been received before this timer expires, an alarm will be generated. The arming of the panel can also be inhibited if desired by turning on option 6 at address P602E.

P789E 0-255E Zone Inactivity Timer (0-255 minutes) - Default 20 minutes

ZONE INACTIVITY DELAY TIME - P790E

If a zone group has the "Zone Inactivity" option turned on, this is the time period for the inactivity timeout. Every time a zone triggers at the panel, the Inactivity timer for the zone is reset back to zero. If the time period expires, a zone inactivity alarm will be generated. The timer is stopped and the value saved when the area assigned to the zone group is armed. When the area is disarmed the timer continues from the saved value.

P790E 0-255E Zone Inactivity Timer (0-255 hours) - Default 120 hours

AREA EXIT DELAY TIMES - P841E to P844E

This is the delay time applicable to all zones in an area following arming before the system is fully armed.

P841E	0-999E	Area "A" exit delay - 0-999 seconds - Default 60 seconds
P842E	0-999E	Area "B" exit delay - 0-999 seconds - Default 60 seconds
P843E	0-999E	Area "C" exit delay - 0-999 seconds - Default 60 seconds
P844E	0-999E	Area "D" exit delay - 0-999 seconds - Default 60 seconds

STAY MODE ENTRY DELAY TIMES - P845E to P848E

This is the delay time applicable to all Stay Mode zones in an area following an alarm trigger before the alarm occurs..

P845E	0-999E	Area "A" Special Stay Mode entry delay - Default 20 seconds
P846E	0-999E	Area "B" Special Stay Mode entry delay - Default 20 seconds
P847E	0-999E	Area "C" Special Stay Mode entry delay - Default 20 seconds
P848E	0-999E	Area "D" Special Stay Mode entry delay - Default 20 seconds

TWO TRIGGER TIMER - P849E

If a zone or zones are set to two trigger, they must activate twice within the two trigger period to cause an alarm. A single zone can trigger twice or two separate zones trigger once each within this time to create an alarm. If only one trigger is received before the two trigger timer expires, the timer is reset and the process must be repeated. Also, if a two trigger zone is left continuously un-sealed longer than the two trigger time an alarm will be generated.

P849E 0-999E Two Trigger time period - Default 60 seconds

DAY ZONE TO KEYPAD BUZZER TIMES - P851E to P854E

If a Day alarm is generated, this time will set how long the keypad buzzer will sound before resetting.

P851E 1-999E Area "A" Day Zone keypad buzzer duration - Default 2 seconds

P852E	1-999E	Area "B" Day Zone keypad buzzer duration - Default 2 seconds
P853E	1-999E	Area "C" Day Zone keypad buzzer duration - Default 2 seconds
P854E	1-999E	Area "D" Day Zone keypad buzzer duration - Default 2 seconds

DAY ZONE TO OUTPUT TIMES - P855E to P858E

If a Day alarm is generated, this time will set how long an output will turn on before resetting.

P855E	1-999E	Area "A" Day Zone to Output duration - Default 2 seconds
P856E	1-999E	Area "B" Day Zone to Output duration - Default 2 seconds
P857E	1-999E	Area "C" Day Zone to Output duration - Default 2 seconds
P858E	1-999E	Area "D" Day Zone to Output duration - Default 2 seconds

PROGRAMMING REAL TIME CLOCK AND TIME ZONES

SETTING THE REAL TIME CLOCK - P678E - P682E

These addresses are used to set the internal real time clock used by the time zone functions, time & date stamping of events in the event buffer and the time for any automatic test calls to a monitoring station.

P678E	1-7E	Set day of the week - where values of 1-7 represent Sunday to Saturday (Sunday = 1)
P679E	0000 - 2359E	Set time - Use 24 hour format
P680E	1-31E	Set day of the month - where values of 1-31 represent days in the month.
P681E	1-12E	Set Month - where values of 1-12 represent the month.
P682E	0-99	Set Year - Where 0-99 represent years, i.e. 02 = 2002.

PROGRAMMING DAYLIGHT SAVING ADJUSTMENTS - P683E - P688E

As the PW64 controller has a real time clock, provision has been made for automatic adjustments for daylight saving. This block of addresses provides the PW64 with the information required to perform the daylight saving adjustments as required.

P683E	0-5E	Daylight Saving Start Sunday - This is the Sunday number in the month that daylight saving will begin (values of 1-5 are allowed). Default = 1
P684E	0-12E	Daylight Saving Start Month - This is month in which the above Sunday will occur. (Values of 1-12 are allowed). Default = 10
P685E	0-24E	Daylight Saving Start Hour - This is the hour that daylight savings will begin (values of 0-24 are allowed). Default = 2
P686E	0-5E	Daylight Saving End Sunday - This is the Sunday number in the month that daylight savings will end (values of 1-5 are allowed). Default = 3
P687E	0-12E	Daylight Saving End Month - This is the month in which the Sunday number will occur (values of 1-12 are allowed). Default = 3
P688E	0-24E	Daylight Saving End Hour - This is the hour that daylight savings will end (values of 0-24 are allowed). Default = 3

TIME ZONE PROGRAMMING - P921E - P944E

These addresses are used to define the time zones used by outputs, users and the Auto Arm/Disarm feature. Time zones require a start and a finish time with the effective window as the difference between start and finish. For this reason the finish time value must be higher than the start value. All times are set in 24 hour clock format.

P921E	1-8E	TZ1 days of the week - Where 1-7 represent the days of the week which the time zone will operate where 1 = Sunday, 2 = Monday etc. A value of 8 at this address will invert the TZ function so that instead of being effective during the window created by the start and finish times, the TZ is effective during the times outside the window set by the start and finish times.
P922E	0000 - 2359E	TZ1 Start time - This is the time when the TZ will start. Use 24 hour format. (HHMM)
P923E	0000 - 2359E	TZ1 Finish time - This is the time of day when the TZ will finish. The finish time must be greater than the start time. Use 24 hour format. (HHMM)

There are 8 time zones available and they occupy addresses P921E to P944E. Each time zone requires 3 addresses to be assigned.

P921E	TZ1 Day of the week	P933E	TZ5 Day of the week
P922E	TZ1 Start Time	P934E	TZ5 Start Time
P923E	TZ1 Finish Time	P935E	TZ5 Finish Time
P924E	TZ2 Day of the week	P936E	TZ6 Day of the week
P925E	TZ2 Start Time	P937E	TZ6 Start Time
P926E	TZ2 Finish Time	P938E	TZ6 Finish Time
P927E	TZ3 Day of the week	P939E	TZ7 Day of the week
P928E	TZ3 Start Time	P940E	TZ7 Start Time
P929E	TZ3 Finish Time	P941E	TZ7 Finish Time
P930E	TZ4 Day of the week	P942E	TZ8 Day of the week
P931E	TZ4 Start Time	P943E	TZ8 Start Time
P932E	TZ4 Finish Time	P944E	TZ8 Finish Time

MISCELLANEOUS SETUP AND DIAGNOSTIC DATA

TEMPORARY OUTPUT DISABLE - P957E

P957E **Temporary Output Disable** - This address allows a technician to select any output/s to be temporarily disabled for one alarm or armed cycle, e.g. by turning on 1-8 at P957E then leaving program mode, outputs 1-8 will not turn on following any alarms. The technician is now free to arm the system to test all monitoring signals without having all of the internal & external alarms activating. When the alarm is reset or disarmed all outputs will now work normally again.

CLEAR OUTPUT DEFAULTS - P966E

P966E **1-8E** **Clear Output Defaults 1-8** - This option is used to remove ALL default options assigned to any output. This is a particularly useful tool when reassigning outputs to special functions such as smoke detector reset, where you need to remove the standard defaults from an output. In addition to removing all default programming this option will also make the reset time for the selected output/s "0".

DATA TRANSFER USING EE² BOARD (DTU)

P958E **Write to EE² Board** - with the optional back-up EE² board plugged into the serial connector on the panel and the write enable link fitted on the EE² board, entering P958E will write a copy of the panel program files to the EE² board.

P959E **Read from EE² Board** - this address allows a copy of a panel program files to be downloaded into a panel (the program files must first have been copied to the EE² board - refer P958E). Note: When transferring data from this board to a panel, the software versions of the two panels (the one where the data files were created and the panel receiving the files) must be the same otherwise the panel may not work correctly.

DYNAMIC DATA - P689E & P950E-P953E

These addresses are used to provide real time feedback from the panel as to the current status. They are intended as view only addresses and only available in installer program mode.

P689E **Misc System Flags** - This address currently has only one option that shows the status of Daylight Saving. If 8 is On at this address then Daylight Saving is currently active.

P950E **Display keyboard address** - This option will cause the keypad you are operating to display it's currently assigned address from 1-8. This feature is only available in installer program mode.

P951E **Display Areas assigned to this keypad** - This option will cause the keypad you are operating to display it's currently assigned Areas. This feature is only available in installer program mode.

P952E **Display software version** - This address will cause the panel software version to be flashed back at the keypad.

P953E **Active Time-Zones** - If Time Zones are being used, by entering in this address while in

Installation Program Mode the panel will display any of the 8 time zones currently active. If 1-8 are On they indicate active time zones.

START PRINTING THE EVENT BUFFER - P954E

P954E Start Event Printing - The alarm system stores the last 255 events in a printer buffer. These events include time, date and an event description. To print the events, assuming the Serial Board is plugged into the panel (with the link set to printer on the serial board) and connected to a printer with an RS232 input, a user with permission to print (e.g. P221-P240 option 3) enters client program mode (P-code-E), then enters P954E, the entire contents of the event buffer will be sent to the printer.

START WALK TEST MODE - P956E

P956E Walk-test mode - When in Installation or Client Program mode, entering P956E will turn On walk-test mode. The keypad buzzer will beep at one second intervals to show that walk-test mode is active. When in walk test mode the activated zone numbers will latch on at the keypad display. The Installer or User can then walk past all of the detectors and return to the keypad to verify that they are functioning correctly at the panel. The walk-test results are also stored in memory so they can be viewed at a later time if required. Pressing any button will terminate walk-test mode.

RESET TO DEFAULTS

RESET TO DEFAULTS - P960E - P967E

These addresses are used to reset sections of the programming back to defaults. Defaults are the factory settings. Most of the addresses below default only one part of the programming. To reset the entire configuration, including the event memory buffer you must use P965E.

P960E Reset user codes

P961E Reset dialler parameters

P962E Reset Radio parameters

P963E Reset PA & Voice settings

P964E Reset the balance of the panel settings not included above

P965E Reset all panel parameters to default and clear the event memory buffer

P967E Clear event memory

COMMAND CONTROL & LOCAL PA OPTIONS

Another powerful feature available from your PW64 panel is the local PA and remote Command Control. These features provide local speech messages in response to various panel functions and alarms. Plus using the same speech messages to provide audible prompts for remote control facilities via a standard touch tone telephone. The owner can check or change the Arm/Disarm status of each of the areas, operate each of the eight outputs, turn on the Microphone or receive alarm information with speech messages.

REMOTE COMMAND CONTROL CODES

Before remote Command Control features can be used the 4 digit DTMF control codes must be programmed. The DTMF codes can be 1-4 digits in length. There is a code for each area, another to control all of the 8 outputs and one more to turn on or off the Microphone input. There are default "Canned" Command Control messages but if desired you can program up to 47 custom messages yourself and assign these to the command control functions.

The addresses for the DTMF Command Control codes are;

P741E code E 4 Digit Code for Area "A" Command Control - This is the code used to Arm or Disarm Area "A" via the telephone.

P742E code E 4 Digit Code for Area "B" Command Control - This is the code used to Arm or Disarm Area "B" via the telephone.

P743E code E 4 Digit Code for Area "C" Command Control - This is the code used to Arm or Disarm Area "C" via the telephone.

P744E code E 4 Digit Code for Area "D" Command Control - This is the code used to Arm or Disarm Area "D" via the telephone.

- P745E code E 4 Digit Code for Output Command Control** - This is the code used to access the Output Command menu. A number from 1-8 is entered after this code to select the output you wish to control (for this feature to work, option 5 at addresses P541E to P548E must be turned on).
- P746E code E 4 Digit Code to Turn ON Microphone** - This is the code used to turn the microphone input on so that the user can listen to any foreign sounds at the secured premises.

RECORDING STATUS MESSAGES

The Customised Local PA and Command Control messages are recorded using the on-board microphone and played back via the on-board speaker. You can program **up to 20 customised messages** where **messages 1-17 can each be up to 5 seconds long** and **messages 18-20 can each be up to 10 seconds long**. Before starting to record the customised messages first decide what they will be and have the text for each message ready. Also number these messages from 1 to a maximum of number 20 and have this list ready as you will need to assign the messages to the various functions later.

- P890E 1-20E Record the Customised speech messages** - To record message number one press P890E1E. After the second "E" (enter) button has been pressed start talking clearly into the microphone from a distance of about 150mm talking at normal speech level. Ensure that the message is shorter than 5 seconds long for messages 1-17 and when the message is finished press the "E" (enter) button to terminate recording of that message. Repeat the process until all messages have been recorded.

PLAYING BACK RECORDED STATUS MESSAGES

Once the Customised messages have been recorded you can play them back individually to verify the content.

- P900E 1-20E Playback the Customised speech messages** - To play back the recorded messages press P900E followed by the message number then "E". If you wish to play back another message following the end of the first selection you only have to enter in a new message number then "E" (enter). You can continue to do this until the "P" (program) button is next pressed.

SETTING PLAY-BACK VOLUME

When playing back the Customised or canned messages it is possible to set the audio volume level while in installer program mode. The setting is adjustable in 8 steps ranging from 0-7 where 0 = High and 7 = Low volume. From the keypad in normal operating mode the volume can also be adjusted by the User, using the "Control" button and either the "6" or "9" buttons. By holding down the "Control" button and then pressing the "6" button repeatedly the volume is increased. Using "Control" and the "9" button will decrease the volume.

- P860E 0-7E Setting Playback Volume** - Enter in a value from 0-7 with 0 = highest volume.

SELECTING THE CUSTOMISED "ARM" MESSAGE

If the following addresses are left blank i.e. "0", the panel will assume that there is no custom voice message for this Command Control & local PA function and revert to the canned message if programmed to do so.

- P861E # E Area "A" Arm message number** - This is the customised message number to play when Area "A" is armed either locally or remotely by Command Control.
- P862E # E Area "B" Arm message number** - This is the customised message number to play when Area "B" is armed either locally or remotely by Command Control.
- P863E # E Area "C" Arm message number** - This is the customised message number to play when Area "C" is armed either locally or remotely by Command Control.
- P864E # E Area "D" Arm message number** - This is the customised message number to play when Area "D" is armed either locally or remotely by Command Control.

SELECTING THE CUSTOMISED "DISARM" MESSAGE

If the following addresses are left blank i.e. "0", the panel will assume that there is no custom voice message for this Command Control & local PA function and revert to the canned message if programmed to do so.

- P865E # E Area "A" Disarm message number** - This is the customised message number to play when Area "A" is disarmed either locally or remotely by Command Control.
- P866E # E Area "B" Disarm message number** - This is the customised message number to play when

- Area "B" is disarmed either locally or remotely by Command Control.
- P867E # E Area "C" Disarm message number** - This is the customised message number to play when Area "C" is disarmed either locally or remotely by Command Control.
- P868E # E Area "D" Disarm message number** - This is the customised message number to play when Area "D" is disarmed either locally or remotely by Command Control.

SELECTING THE CUSTOMISED "STAY" MODE "ARM" MESSAGE

If the following addresses are left blank i.e. "0", the panel will assume that there is no custom voice message for this Local PA only function and revert to the canned message if programmed to do so.

- P869E # E Area "A" Stay Mode Arm message number** - This is the customised PA message number to play when Area "A" is armed in Stay mode locally.
- P870E # E Area "B" Stay Mode Arm message number** - This is the customised PA message number to play when Area "B" is armed in Stay mode locally.
- P871E # E Area "C" Stay Mode Arm message number** - This is the customised PA message number to play when Area "C" is armed in Stay mode locally.
- P872E # E Area "D" Stay Mode Arm message number** - This is the customised PA message number to play when Area "D" is armed in Stay mode locally.

SELECTING CUSTOMISED "ON" MESSAGES FOR "OUTPUTS"

If the ON message number is left blank i.e. "0", the panel will assume that there is no custom voice message for this Command Control & local PA function and revert to the canned message if programmed to do so.

- P891E # E Output #1 ON message number** - This is the customised message number to play when Output #1 turns ON either locally or remotely by Command Control.
- P892E # E Output #2 ON message number** - This is the customised message number to play when Output #2 turns ON either locally or remotely by Command Control.
- P893E # E Output #3 ON message number** - This is the customised message number to play when Output #3 turns ON either locally or remotely by Command Control.
- P894E # E Output #4 ON message number** - This is the customised message number to play when Output #4 turns ON either locally or remotely by Command Control.
- P895E # E Output #5 ON message number** - This is the customised message number to play when Output #5 turns ON either locally or remotely by Command Control.
- P896E # E Output #6 ON message number** - This is the customised message number to play when Output #6 turns ON either locally or remotely by Command Control.
- P897E # E Output #7 ON message number** - This is the customised message number to play when Output #7 turns ON either locally or remotely by Command Control.
- P898E # E Output #8 ON message number** - This is the customised message number to play when Output #8 turns ON either locally or remotely by Command Control.

SELECTING CUSTOMISED "OFF" MESSAGES FOR "OUTPUTS"

If the OFF message number is left blank i.e. "0", the panel will assume that there is no custom voice message for this Command Control & local PA function and revert to the canned message if programmed to do so.

- P901E # E Output #1 OFF message number** - This is the customised message number to play when Output #1 turns OFF either locally or remotely by Command Control.
- P902E # E Output #2 OFF message number** - This is the customised message number to play when Output #2 turns OFF either locally or remotely by Command Control.
- P903E # E Output #3 OFF message number** - This is the customised message number to play when Output #3 turns OFF either locally or remotely by Command Control.
- P904E # E Output #4 OFF message number** - This is the customised message number to play when Output #4 turns OFF either locally or remotely by Command Control.
- P905E # E Output #5 OFF message number** - This is the customised message number to play when Output #5 turns OFF either locally or remotely by Command Control.
- P906E # E Output #6 OFF message number** - This is the customised message number to play when Output #6 turns OFF either locally or remotely by Command Control.
- P907E # E Output #7 OFF message number** - This is the customised message number to play when Output #7 turns OFF either locally or remotely by Command Control.
- P908E # E Output #8 OFF message number** - This is the customised message number to play when Output #8 turns OFF either locally or remotely by Command Control.

MISCELLANEOUS LOCAL PA ALARM SETTINGS

The following addresses allow various system status and alarm messages to be played locally via the internal speaker.

P912E	Pendant Panic Alarm Local PA settings - Default = 0	1E = Enable Local PA message
P913E	Keypad Panic Alarm Local PA settings - Default = 0	2E = Use Canned Local PA message
P914E	Keypad Fire Alarm Local PA settings - Default = 0	3E = Repeat Local PA message
P915E	Keypad Medical Alarm Local PA settings - Default = 0	4E = Spare
P916E	System Battery Low Local PA settings - Default = 0	5E = Spare
P917E	Mains Voltage Failure Local PA settings - Default = 0	6E = Spare
P918E	Radio Battery Low Local PA settings - Default = 0	7E = Spare
P919E	Radio supervisory Fail Local PA settings - Default = 0	8E = Spare
P920E	System or Zone Tamper Alarm Local PA settings - Default = 0	

Option 1 - Enable Local PA message. When this alarm occurs, it is possible to play a pre-recorded speech message via the panels internal speaker. With this option on the panel is expecting a customised message to be programmed by the installer and the message numbers selected at addresses P881E-P889E, if no message number is programmed at these addresses, the panel will not play any local PA message when in alarm.

Option 2 - Use Canned local PA message. If option 1 above is on plus this option, the panel will play the default "Canned" audio message when this alarm occurs provided there is no custom message number programmed at addresses P881E-P889E.

Option 3 - Repeat Local PA message. If option 1 or 2 or both are on above and this option is on, the panel repeat the local PA message until the alarm is reset.

MISCELLANEOUS ALARMS, VOICE MESSAGE MAPPING - P881E - P889E

These addresses are used to assign the customised voice messages to the manually generated Panic,/Fire,/Medical alarms, battery low and mains failure, Radio Battery low, Supervisory Alarm and tamper alarm messages. The voice messages will be played over the phone in response to an alarm activation to those phone numbers which have been assigned Speech Dial format at options P697E to P702E. The same message will be played locally via the internal speaker is the associated options 1&2 above are turned on. If the setting is left at "0", the panel will play the canned message.

P881E	0-47E	Voice Message Mapped to Pendant "Panic" Alarm - Default 0
P882E	0-47E	Voice Message Mapped to Keypad "Panic" Alarm - Default 0
P883E	0-47E	Voice Message Mapped to Keypad "Fire" Alarm - Default 0
P884E	0-47E	Voice Message Mapped to Keypad "Medical" Alarm - Default 0
P885E	0-47E	Voice Message Mapped to Battery Low Alarm - Default 0
P886E	0-47E	Voice Message Mapped to Mains Failure Alarm - Default 0
P887E	0-47E	Voice Message Mapped to Radio Device Low battery - Default 0
P888E	0-47E	Voice Message Mapped to Radio Supervisory Failure Alarm - Default 0
P889E	0-47E	Voice Message Mapped to Zone or System Tamper Alarm - Default 0

COMMAND CONTROL OPERATION

The Command Control provides a powerful, easy to use remote telephone control of your alarm system. User operation of the Command Control has been designed to be as simple and user friendly as possible. Canned or customised voice status messages guide you through the many control options. Because the voice status messages can be recorded on-site they can be customised to suit each specific application. For example, rather than the status message saying "Output #1 off" you can record a message which describes exactly what is being controlled like "Factory heating off"

In the previous section you would have seen how you program access codes for each of the Command Areas and outputs. These are the codes you will enter over the phone to access the command menus. In order to start the Command Control feature you must first ring the phone number which the panel is connected to. The panel may be set up to answer after a specific number of rings of it may be set-up to use a fax defeat option. Either way, when you ring the phone number and finally get through to the panel, the first thing you will hear over the phone is a burst of modem tone for two seconds. After this tone has stopped you must enter the access code which is associated with the Command menu option you wish to access. *Remember, the code you enter will determine which menu option*

you access. If you miss the pause, the panel will repeat the modem tone and then again pause for 5 seconds looking for your access code. This process will be repeated 4 times before hanging up if no valid code is received. When entering codes or other information in Command Control the "#" key acts as a "Clear" button.

When you have entered the required 4 digit access code the panel will reply with the status message associated with that menu option. For example, lets say we have a code of 2045 programmed at address P741E, (the code for Arming & Disarming Area A). Once the code "2045" has been received the panel checks the current status of Area A and replies with either the canned message or the customised voice message assigned at address P861E or P865E that relates to the status e.g. if Area A is Armed then the Armed message will be sent, if Disarmed then the Disarmed message will be sent.

Once the status message has informed you of the actual state, you can use the "*" key to toggle the option on & off or Arm and Disarm, e.g. in our example above, code 2045 accesses the Area "A" menu. Assuming the status message we received was *"Area A alarm is Armed"* If we press the "*" key, Area "A" will be Disarmed and we would receive a status message *"Area A alarm is Disarmed"*.

While you are on-line with the panel you can move between menu options by entering the code of the option you want to control. Assuming there was a code of 4321 programmed at address P745E, to control outputs. After having used code 2045 to control the Arm/Disarm status of Area A we first press the "#" button to reset all previous entries then we can enter the digits 43215 (that is 4321 for the output control and 5 to select output #5). The current status of output #5 will be given either by the canned or customised voice message and then the status can be changed with the "*" button on the remote telephone (Note; For output control you must enter in the 4 digit code e.g. 4321 followed by the output number you wish to control, in this case 5).

At any stage, if you enter in an incorrect code you can press the "#" button on the remote telephone to clear all code entries and then start again.

To end a Command Control session simply hang up the phone. The panel is monitoring the line at all times and 15 seconds after the last key press it will automatically hang up the line. This 15 second timer is active during the whole command control process so a period of 15 seconds without a key press will cause the panel to hang-up.

LOCAL COMMAND CONTROL OF OUTPUTS

If a command control code for outputs is programmed (P745E) and the output/s are allowed to be locally controlled (P541-P548, option 6) then entering the 4 digit code at a keypad will allow direct control of the outputs. The LCD display will show "OUTPUTS" to indicate that local command control is active. At this stage any outputs that are on will be shown on the LCD display e.g. if output 1 is on the number 1 will be on. By now pressing the "1" button at the panel keypad, output 1 can be turned off provided it is allowed to be locally controlled. To leave local command control mode simply press the "Enter" button and the keypad will return to normal operation. If the "Control" button is enabled at address P646E then you can access this Local Command Control mode directly by simply pressing the "Control" button at the keypad followed by the output number/s that are allowed to be controlled.

DIALLER PROGRAMMING

ENABLING DIALLER & SETTING DIALLING PARAMETERS - P750E

P750E 1-8E System Options (Default = 2,6,7)

- 1 = Enable dialler
- 2 = Fax defeat
- 3 = Disable line monitoring
- 4 = DTMF or Pulse Dial
- 5 = Normal or Reverse Pulse Dial
- 6 = Report 24 Hr alarms in Domestic/Voice
- 7 = Auto-Detect Modem Format
- 8 = Force Bell103/V21

- Option 1** **Enable Dialler** - This option is used to activate the dialler hardware. If this option is Off, all dialler reporting activity will be disabled. - Default = Off
- Option 2** **Fax Defeat** - This option enables fax defeat mode. When enabled the panel will look for incoming rings between 1-4 rings (inclusive). If the incoming call is then terminated the panel will answer the next incoming call after one ring. If another call is not established within 45 sec of the first call, the fax defeat mode is reset. For fax defeat to work the auto answer rings must be enabled by putting in a suitably high ring count (e.g. 25).
- Option 3** **Disable Line Monitoring** -If this option is enabled, then the panel no longer tests the telephone line.
- Option 4** **DTMF or Pulse Dial** - Selects DTMF or Pulse dialling. Led Off = DTMF Dial.
- Option 5** **Normal or Reverse Pulse Dial** - With this option off, the dialling pulses are normal i.e. a 1 = 1 pulse, a 9 = 9 pulses. If the option is on, then the pulses are reversed i.e. a 1 = 9 pulses, a 9 = 1 pulse.
- Option 6** **Report 24 Hour alarms in Domestic/Voice Format** - Normally 24 Hour alarms will not report via the dialler in these two reporting formats. If the alarm reporting is required for these formats then they can be enabled by turning this option on.
- Option 7** **Auto-Detect Modem Format** - The panel can connect using Bell103 or V21 formats when performing upload/download connections. If this option is On the panel generates the V21 tones first and if no connection is established it then generates the Bell103 tones. If this option is turned off then the format is fixed by the selection made at option 8.
- Option 8** **Force Bell103/V21 Modem Format** - If option 7 above is turned off then the modem format to be used for upload/download is specified here. If this option is Off the format is Bell103, On is V21.

REPORTING SCENARIOS - P752E - P755E

P752E 1-16E Reporting Scenario #1 options (Default=1 7)
P753E 1-16E Reporting Scenario #2 options (Default = 0)
P754E 1-16E Reporting Scenario #3 options (Default = 0)
P755E 1-16E Reporting Scenario #4 options (Default = 0)

In order to provide you with the best flexibility when reporting alarms we have developed a unique system called "Reporting Scenarios". The Scenarios define what action is taken by the panel for each alarm event, e.g. alternate between numbers 1&2 until one is kissed-off or dual report to numbers 1&2 until both kissed-off. There are four individual scenarios available each with up to 16 possible steps. The Scenarios consist of a string of digits that define the reporting action to be taken by the panel. The digits in a Scenario are pre-defined. What the various digits are and their meaning are listed below.

Scenario Options;

- 1 = Call Telephone Number 1
- 2 = Call Telephone Number 2
- 3 = Call Telephone Number 3

- 6 = Call Telephone Number 6
- 7 = Return to step 1 until the event kissed-off
- 8 = Return to previous step if not kissed-off

4 = Call Telephone Number 4
5 = Call Telephone Number 5

9 = Stop if kissed-off, if not proceed to next step

Example 1 (alternate dialling) 1 9 2 9 7

In this example we have defined a scenario with five steps as follows.

Step 1 - Dial Ph # 1.

Step 2 - If not Kissed-off (defined by the 9) continue to next step

Step 3 - Dial Ph # 2

Step 4 - If not Kissed-off (defined by the 9) continue to next step

Step 5 - If not kissed-off return to Ph #1 (the 7 causes a return to the start)

This process is repeated until kissed-off or the maximum number of dialling attempts have been reached for this scenario.

Example 2 (dual reporting) 172 7

In this example we have defined a scenario with four steps as follows.

Step 1 - Dial Ph # 1.

Step 2 - If not Kissed-off return to Ph # 1 (the 7 causes a return to the start). When kissed-off or the maximum re-tries reached, move forward to the next step.

Step 3 - Dial Ph # 2

Step 4 - If not kissed-off return to Ph # 2 (the 7 causes a return to the start). When kissed-off or the maximum re-tries reached, move forward to the next step. If no further steps, stop.

The first step must be completed i.e. kissed-off or the maximum re-tries reached, before the panel can move past the first "7", then it can step forward and execute additional instructions up to the next 7. When the format is Contact ID or 4+2 the use of the two sevens in the scenario forces the panel to report the same signal to both numbers (Dual reporting).

MAXIMUM DIAL ATTEMPTS PER SCENARIO NUMBER

P756E Maximum dialling attempts for Scenario # 1-Value 1-99 (Default=10)

P757E Maximum dialling attempts for Scenario # 2-Value 1-99 (Default=10)

P758E Maximum dialling attempts for Scenario # 3-Value 1-99 (Default=10)

P759E Maximum dialling attempts for Scenario # 4-Value 1-99 (Default=10)

TELEPHONE NUMBER PREFIX

P690E 1-16E Telephone Number Prefix - 16 Characters Maximum (Pauses and special characters allowed)

This Prefix can be added to the beginning of any of the 6 telephone numbers by turning on option 6 at addresses P703E-P708E.

PROGRAM TELEPHONE NUMBERS - P691E - P696E

There are 16 characters available in each of the telephone numbers including five special characters. To program the

Character	LCD KP Button	Displayed as On LCD KP
2.5 sec pause	"Control" "2"	-
* Character	"Control" "3"	*
# Character	"Control" "4"	#
Wait for 2nd Dial Tone	"Control" "5"	W
5 sec pause	"Control" "6"	=

special characters that include dialling pauses, the * and # characters, etc, refer to the table below.

P691E 1-16E Telephone Number 1 - where options 1-16 represent up to 16 digits

P692E 1-16E Telephone Number 2 - where options 1-16 represent up to 16 digits

P693E 1-16E Telephone Number 3 - where options 1-16 represent up to 16 digits

P694E 1-16E Telephone Number 4 - where options 1-16 represent up to 16 digits

P695E 1-16E Telephone Number 5 - where options 1-16 represent up to 16 digits

P696E 1-16E Telephone Number 6 - where options 1-16 represent up to 16 digits

DEFINE REPORTING FORMATS FOR EACH TELEPHONE NUMBER - P697E - P702E

These addresses define which format the panel will use when dialling each of the six phone numbers.

P697E Reporting Format for Ph # 1 (Default= 1)

1 = Contact ID	8 = 4+2 10pps (Handshake 2300/ Tone 1900)
2 = Domestic Dial	9 = 4+2 20pps (Handshake 1400/ Tone 1800)
3 = Pager	10= 4+2 20pps (Handshake 1400/ Tone 1900)
4 = Speech Dialler	11= 4+2 20pps (Handshake 2300/ Tone 1800)
5 = 4+2 10pps (Handshake 1400/ Tone 1800)	12= 4+2 20pps (Handshake 2300/ Tone 1900)
6 = 4+2 10pps (Handshake 1400/ Tone 1900)	13= 4+2 DTMF
7 = 4+2 10pps (Handshake 2300/ Tone 1800)	

Option 1 **Contact ID** - Use Contact ID format to report alarm and system events to a monitoring companies receiving equipment.

Option 2 **Domestic Alarm Tone** - Use "Domestic" format to report alarm events. This format uses alternating tones to report alarms and can be kissed-off by pressing any digit on a touch tone phone. This alternating alarm tone continues for 5 seconds followed by a 5 second pause, at which time the panel is looking for a kiss-off. If a kiss-off is not received another round of alarm tones will be sent followed by another pause to check for kiss-off. This routine is repeated 4 times, at which point if a kiss-off has not been received, the panel will hang up and dial the next phone number. Domestic dial will report Zone activations, Manual Fire, Medical & Panic alarms, Radio Panic alarms, Mains failure, Battery low, Zone & Cabinet tampers, Radio Supervisory failure and Radio battery low signals. If you don't wish any of these to report just make the relevant dialling Scenario "0" (P791E-P806E).

Option 3 **Pager** - Report alarm events using "Pager" format. This format sends a 12 digit numeric code to a pager. This format is restricted to reporting the same alarm events as the Domestic Dial format above. The event report is in the form of a 12 digit message which consists of a unique 4 digit account code (NOTE: The client account number should not start with a "0"), a space character, a 3 digit event code, another space character then a 3 digit identifier extension. The spaces between the account code, event code and extension make up the 12 bits of the message. There is no kiss-off required in Pager Format reporting. The account and event codes are the Contact ID codes programmed into the system.

As an example, a pager which displays this message;

1 2 3 4 _ 1 3 0 _ 0 0 1

Would have received an alarm message from alarm 1234 (Area A account code), that there is a burglar activation 130 (contact ID burglar alarm report code), on zone 001 (zone one extension number)

Option 4 **Speech Dialler** - Report alarm events by using the canned or customised messages. This format is similar to the Domestic Dial format in that it reports alarm events via private phone numbers and is kissed-off by pressing a button on the telephone but there is one important difference. This format will report the alarm events using pre-recorded voice messages. When the alarm occurs, like the Domestic Dial format, a 5 second pause follows the voice message in which the panel is looking to be kissed-off. If not kissed-off the dialler will repeat the message and pause again. This routine is repeated 4 times at which point, if a kiss-off has not been received the panel will hang up and dial the next phone number. To kiss-off the panel during the pause period all you do is press any of the buttons on your touch tone telephone. If a kiss-off is not received from any of the phone numbers dialled, the panel will make the maximum number of calls allowed for the scenario and shut down awaiting a new alarm trigger. The same alarms that are sent for Domestic Dial above are also sent in Speech mode.

Option 5-12 **4+2 Pulsed** - This option sends a 4+2 signal to a monitoring station. The various options allow for 10 or 20 pulses per second and either a 1800 Hz or 1900 Hz transmit tone. There is also a selection for the initial Handshake tone from the monitoring receiver to be 1400 Hz or 2300 Hz. Please refer to the options listed above. This format consists of sending a 4 digit account code followed by a 2 digit event code. There are many forms of 4+2 in use and the correct choice must be made in consultation with the individual monitoring stations.

Option 13 **4+2 DTMF** - This option sends a 4+2 DTMF (Dual Tone Multi-Frequency) signal to a monitoring station. The alarm transmission consists of a 4 digit account code, a 2 digit event code and a

checksum.

The panel will automatically cease reporting in Domestic, or Speech Modes if reset with a valid code. Contact ID and 4+2 modes Must be kissed off by a monitoring station receiver.

Note: P698E through P702E are as above but applied to telephone numbers 2-6 (Default=0)

DEFINE OPTIONS FOR EACH TELEPHONE NUMBER - P703E - P708E

These addresses are used to define various options for each of the six phone numbers.

P703E Options for Ph # 1 (Default= 1,5)

- | | |
|---|--|
| 1 = Monitor Call Progress | 5 = Send Automatic Test calls |
| 2 = Blind Dial | 6 = Add Prefix to this Telephone Number |
| 3 = Use Group Numbers for Contact ID | 7 = Dial using Long DTMF Tones |
| 4 = Send Restores | 8 = Ignore Kiss off in Domestic mode |

- Option 1 Monitor Call Progress** - Monitor call progress means that the dialler monitors the status of the dialling tone to determine whether the call is valid or not. If the call is not valid, i.e. Engaged, the panel will know and hang up the call and try again.
- Option 2 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 3 Use Separate Accounts or Group Number** - When sending an alarm using Contact ID, the panel can either send separate account codes to report the four separate areas or, use one account code (Area A) and use the group number to identify the four different areas.
- Option 4 Send Restores** - When an alarm is generated the panel automatically sends a restore when the alarm condition is reset. If the monitoring company does not want restores they may be turned off with this option.
- Option 5 Send Test call to Monitoring Station** - The automatic daily test call to a monitoring station can be disabled if not required by turning off this option.
- Option 6 Add Pre-fix to this Telephone Number** - The dialling Prefix at address P690E can add preset dialling parameters to all or any of the telephone numbers. This is useful if special characters are required to bypass Toll Bars or other similar restrictions that must be dialled before the telephone number. This also allows a number to be longer than the 16 characters as the Prefix is also 16 characters long.
- Option 7 Dial using Long DTMF Tones** - If this option is off the panel will dial this telephone number using 75ms DTMF tones, if it is on the panel will dial using 100ms DTMF tones.
- Option 8 Ignore Kiss off in Domestic Mode** - If this option is turned ON, the panel will not look for a kiss-off when reporting domestic mode alarms and will run to the maximum re-tries for the scenario then stop. NOTE: the event must be reported for auto-kiss-off to work, so "call progress" should be turned off if it is anticipated that a call could be engaged or unanswered, otherwise it will not get reported and then will not be kissed off automatically.

Note: P704E through P708E are as above but applied to telephone numbers 2-6 (Default=0)

SYSTEM EVENTS SCENARIO MAPPING - P791E - P806E

This group of addresses is used to map System Events as listed below to one of the four possible reporting scenarios. If a value of zero (0) is assigned at an address in this block, that event will not be reported by the panel.

- P791E Duress alarm mapped to scenario 1-4 default 1**
P792E Keypad Panic Alarm mapped to scenario 1-4 default 1
P793E Keypad Fire Alarm mapped to scenario 1-4 default 1
P794E Keypad Medical Alarm mapped to scenario 1-4 default 1
P795E Battery low mapped to scenario 1-4 default 1
P796E Mains fail mapped to scenario 1-4 default 1
P797E Phone line restore mapped to scenario 1-4 default 1

P798E Radio PIR battery low mapped to scenario 1-4 default 1
P799E Radio-key battery low mapped to scenario 1-4 default 1
P800E Keypad tamper mapped to scenario 1-4 default 1
P801E Cabinet tamper mapped to scenario 1-4 default 1
P802E Zone tamper mapped to scenario 1-4 default 1
P803E "RF Interference" mapped to scenario 1-4 default 1
P804E Radio panic mapped to scenario 1-4 default 1
P805E Supervised radio timeout mapped to scenario 1-4 default 1
P806E Zone inactivity timeout mapped to scenario 1-4 default 1
P807E Test calls mapped to scenario 1-4 default 1

PROGRAMMING TEST CALL OPTIONS - P676E - P677E

Because the PW64 runs a real time clock, it is possible to assign test calls by day of the week and time of day.

P676E 0-7E **Test Call Days of the Week** - Where 1 = Sunday and 7 = Saturday. 0 = No Test
P677E XXXXE **Test Call Time of Day** - Where the time of the day you wish the panel to make its daily test call is programmed in 24 hour format.

CONTACT ID CODE & SPEECH MESSAGE PROGRAMMING

CONTACT ID AREA ACCOUNT CODES - P536E ,P636E,P736E & P836E

P536E XXXXE **Account Code for Area "A" Reports** - The Account code set at this address will be used to report all system events Arms and Disarms, zone activations, restores and bypasses etc from Area "A" - Default Account = 0000
P636E XXXXE **Account Code for Area "B" Reports** - The account code set at this address will be used to report Arms and Disarms, zone activations, restores and bypasses etc from Area "B"
P736E XXXXE **Account Code for Area "C" Reports** - The account code set at this address will be used to report Arms and Disarms, zone activations, restores and bypasses etc from Area "C"
P836E XXXXE **Account Code for Area "D" Reports** - The account code set at this address will be used to report Arms and Disarms, zone activations, restores and bypasses etc from Area "D"

ZONE GROUP CONTACT ID ALARM REPORTING CODE - P481E-P490E

This is the Contact ID event code that the zone group will send when an alarm occurs on a zone assigned to that group. The default setting of "130" means a burglar alarm. If you have panic alarms, fire alarms or some other alarm type on specific groups you can re-program this code to identify the type of alarm correctly.

P481E	XXXE	Zone Group #1 Alarm reporting code	Default = 130	0 = No Report
P482E	XXXE	Zone Group #2 Alarm reporting code	Default = 130	
P483E	XXXE	Zone Group #3 Alarm reporting code	Default = 130	
P484E	XXXE	Zone Group #4 Alarm reporting code	Default = 130	
P485E	XXXE	Zone Group #5 Alarm reporting code	Default = 130	
P486E	XXXE	Zone Group #6 Alarm reporting code	Default = 130	
P487E	XXXE	Zone Group #7 Alarm reporting code	Default = 130	
P488E	XXXE	Zone Group #8 Alarm reporting code	Default = 130	
P489E	XXXE	Zone Group #9 Alarm reporting code	Default = 130	
P490E	XXXE	Zone Group #10 Alarm reporting code	Default = 130	

ZONE TAMPER ALARM CONTACT ID REPORTING CODES - P491E-P500E

This is the Contact ID event code that the zone group will send when a tamper alarm occurs on a zone assigned to that group. The default setting of "137" means a tamper alarm. If you wish to identify this alarm as some other alarm type on specific groups you can re-program this code to identify the type of alarm correctly.

P491E	XXXE	Zone Group #1 Tamper Alarm reporting code	Default = 137	0 = No Report
P492E	XXXE	Zone Group #2 Tamper Alarm reporting code	Default = 137	
P493E	XXXE	Zone Group #3 Tamper Alarm reporting code	Default = 137	
P494E	XXXE	Zone Group #4 Tamper Alarm reporting code	Default = 137	
P495E	XXXE	Zone Group #5 Tamper Alarm reporting code	Default = 137	
P496E	XXXE	Zone Group #6 Tamper Alarm reporting code	Default = 137	
P497E	XXXE	Zone Group #7 Tamper Alarm reporting code	Default = 137	

P498E	XXE	Zone Group #8 Tamper Alarm reporting code	Default = 137
P499E	XXE	Zone Group #9 Tamper Alarm reporting code	Default = 137
P500E	XXE	Zone Group #10 Tamper Alarm reporting code	Default = 137

MANUAL ALARM CONTACT ID REPORTING CODES - P747E-P749E

This is the Contact ID event code that the Manually generated Keypad alarms will send when a triggered by a User. If you wish to identify these alarms differently you can re-program the codes at the addresses below.

P747E	XXE	“Panic” Keypad Alarm	Default = 120
P748E	XXE	“Fire” Keypad Alarm	Default = 110
P749E	XXE	“Medical” Keypad Alarm	Default = 100

ZONE GROUP ALARM VOICE MESSAGE MAPPING - P451E - P460E

These addresses are used to assign the customised voice messages to the zone group alarms. The voice messages will be played over the phone in response to an alarm activation to those phone numbers which have been assigned Speech Dial format at options P697E to P702E. If the setting is left at “0”, the panel will play the canned message.

P451E	0-47E	Customised Voice Message Mapped to Zone Group # 1 Activation's	- Default 0
P452E	0-47E	Customised Voice Message Mapped to Zone Group # 2 Activation's	- Default 0
P453E	0-47E	Customised Voice Message Mapped to Zone Group # 3 Activation's	- Default 0
P454E	0-47E	Customised Voice Message Mapped to Zone Group # 4 Activation's	- Default 0
P455E	0-47E	Customised Voice Message Mapped to Zone Group # 5 Activation's	- Default 0
P456E	0-47E	Customised Voice Message Mapped to Zone Group # 6 Activation's	- Default 0
P457E	0-47E	Customised Voice Message Mapped to Zone Group # 7 Activation's	- Default 0
P458E	0-47E	Customised Voice Message Mapped to Zone Group # 8 Activation's	- Default 0
P459E	0-47E	Customised Voice Message Mapped to Zone Group # 9 Activation's	- Default 0
P460E	0-47E	Customised Voice Message Mapped to Zone Group # 10 Activation's	- Default 0

MISCELLANEOUS ALARMS, VOICE MESSAGE MAPPING - P881E - P889E

These addresses are used to assign the customised voice messages to the manually generated Panic,/Fire,/Medical alarms, battery low and mains failure, Radio Battery low, Supervisory Alarm and tamper alarm messages. The voice messages will be played over the phone in response to an alarm activation to those phone numbers which have been assigned Speech Dial format at options P697E to P702E. If the setting is left at “0”, the panel will play the canned message.

P881E	0-47E	Voice Message Mapped to Pendant “Panic” Alarm	- Default 0
P882E	0-47E	Voice Message Mapped to Keypad “Panic” Alarm	- Default 0
P883E	0-47E	Voice Message Mapped to Keypad “Fire” Alarm	- Default 0
P884E	0-47E	Voice Message Mapped to Keypad “Medical” Alarm	- Default 0
P885E	0-47E	Voice Message Mapped to Battery Low Alarm	- Default 0
P886E	0-47E	Voice Message Mapped to Mains Failure Alarm	- Default 0
P887E	0-47E	Voice Message Mapped to Radio Device Low battery	- Default 0
P888E	0-47E	Voice Message Mapped to Radio Supervisory Failure Alarm	- Default 0
P889E	0-47E	Voice Message Mapped to Zone or System Tamper Alarm	- Default 0

MISCELLANEOUS DIALLER OPTIONS

KEYPAD LISTEN-IN OPTIONS

The buzzer on the LCD keypad can be used to listen to the dialler during various On-line states. If this option is not wanted you must turn off all of the options at this address. It is a very useful tool for testing the dialler on a new installation when sending signals to monitoring stations or calls to cell-phones, etc as the installer can hear the call being made to verify correct operation.

P606E	Keypad Listen-in Options (Default = 1,7)
	1 = Enabled During Dialling in Disarm State only
	2 = Enabled During Dialling in Armed State only
	3 = Enabled During Dialling in Monitor 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 Monitor Mode State only**
- 7 = Listen-in Enabled when the panel answers a call**
- 8 = Delay hangup on Voice Alarm kiss-off & turn on O/P 4**

P606E option 8 special function mode. If option 8 is turned on at address P606E, the dialler will delay hanging up of a call in Voice Mode following kiss-off and also turn on Output # 4 for the same period. The hang-up delay and the time Output 4 will turn on are linked to the output 4 Pulse timer (P784E). If output 4 pulse timer is set to a value of 50 (50 1/10sec), the hang-up delay and output 4 on time will be 5 seconds. This option ONLY applies to kiss-off in Voice Mode reporting.

To ensure that no unwanted functions are assigned to Output 4 you should first clear all of the defaults for Output 4 at address P966E, eg press P966E4E. This will remove all default alarm conditions assigned to O/P 4.

Then set the required hang-up and output ON time delay at address P784E eg P784E50E will give a 5 second hang-up and output on time. The hang-up delay and output on time will only begin after all alarm events have been kissed off with the DTMF button following a call. If multiple alarm events occur and are reported during a call you MUST kiss-off all messages before the Hang-up and output delay will begin. To let the person kissing off the alarm messages know that all messages have been acknowledged, it is advisable to assign the audio "Output ON" message to output 4. When all alarm messages have been kissed off and the delay is about to begin, the message "Output 4 ON" will be heard so the person knows the timer has started.

LISTEN-IN via INTERNAL SPEAKER OPTIONS

The internal speaker can be used to listen to the dialler during various On-line states. If this option is not wanted you must turn off all of the options at this address. It is a very useful tool for testing the dialler on a new installation when sending signals to monitoring stations or calls to cell-phones, etc as the installer can hear the call being made to verify correct operation.

P607E Internal Speaker Listen-in Options (Default = None)

- 1 = Enabled During Dialling in Disarm State only**
- 2 = Enabled During Dialling in Armed State only**
- 3 = Enabled During Dialling in Monitor 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 Monitor Mode State only**
- 7 = Listen-in Enabled when the panel answers a call**
- 8 = Enabled at All Times**

AUTO-ANSWER RING COUNT

P760E 1-99E Auto-Answer Rings - This option defines the number of rings before the panel will auto-answer the incoming call. (Default = 25)

MAINS FAIL REPORT DELAY

P769E 1-999E Mains (AC) Fail Report Delay - When there is a mains supply failure, the mains must fail for longer than the programmed delay at this address before the panel will report the alarm. A value from 1-999 seconds can be programmed as the delay. A value of 0 will result in an instant report of mains failure. The Local Mains Fail PA message if programmed to report via the internal speaker will not report locally until this delay has expired.
(Default = 600 seconds)

ZONE ALARM REPORT DELAY

P770E 0-999E Report Delay on Zones - This delay pauses the zone reporting of alarms via the panel for the programmed period (0 = No delay or 1-999 seconds). If the alarm is reset before this delay expires no alarms will be reported.

This delay pauses the reporting of zone alarms for all reporting formats. This delay can be used to prevent false alarms from reporting if the alarm is cancelled before this delay expires.

UPLOAD/DOWNLOAD SECURITY OPTIONS

P605E XXXXXXXX. Up to 8 digit security code for upload/download.

P955E Answer incoming call - provided a user with option 4 set (P221-P240) enters in P955E while in client program mode and the telephone line is currently ringing the panel will answer the incoming call and initiate an upload/download connection.

PROGRAMMING 4+2 EVENT CODES

PROGRAMMING 4+2 SPECIAL CHARACTERS

When programming 4+2 event codes (see pages 78-86) you can enter in digits 1234567890 plus the following special characters BCDEF. If you enter in a value of "00" or press the "Control" & "0" button after a 4+2 program address then the appropriate option will not report via the dialler e.g. P1175E-00-E or P1175E-Control-0-E will disable the keypad panic alarm reporting function in 4+2 mode. When using the "Control" "0" keys you must press and hold the Control key first then the 0 key within 2 seconds to remove an entry. The 4+2 event codes must be 2 digits but they can be in any order e.g.;

P1175E-01-E, or P1175E-C6-E, or P1175E-4F-E, etc.

In the above examples, the letters are programmed using the special function keys listed in the table below. When displaying the data back at the keypad the associated keypad indications are also listed against the special letters B-F. (NOTE: A value of "0" in 4+2 will be transmitted as 10 pulses to the monitoring station).

Character	LCD KP Special Function Key	Displayed as On LCD KP
"B"	"Control" "2"	B
"C"	"Control" "3"	C
"D"	"Control" "4"	D
"E"	"Control" "5"	E
"F"	"Control" "6"	F

COMMON CONTACT ID CODES

Medical Alarm	100
Medical Pendant	101
Fire Alarm	110
Smoke Detector	111
Heat Detector	114
Manual Call Point	115
Duct Detector	116
Silent Panic	122
Audible Panic	123
Perimeter Zone	131
24 Hour Zone	133
Entry Exit Zone	134

Low Temperature	159
High Temperature	158
Refrigeration Alarm	152
Water Leakage	154
Gas Detector	151

ELITE 64 PROGRAM SUMMARY GUIDE

The following program summary is an abbreviated version of all the Elite program addresses. This is intended as a quick guide to finding a program address. The program addresses are in numerical order with page references beside them so you can get more detailed information if required. **Because this section is in numerical order, any addresses relating to the Dialler are not necessarily grouped together. To identify Dialler options each heading relating to the Dialler are highlighted by an “**” either side of the heading.**

CLIENT MODE PROGRAMMING

Programming User Codes

P1E	User Code #1 (Master Code) if deleted code is reset to 987654 - Default 123	Page 13
P2E	User Code #2	Page 13
P3E	User Code #3	Page 13
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P7E	User Code #7	Page 13
P8E	User Code #8	Page 13
P9E	User Code #9	Page 13
P10E	User Code #10	Page 13
P11E	User Code #11	Page 13
P12E	User Code #12	Page 13
P13E	User Code #13	Page 13
P14E	User Code #14	Page 13
P15E	User Code #15	Page 13
P16E	User Code #16	Page 13
P17E	User Code #17	Page 13
P18E	User Code #18	Page 13
P19E	User Code #19	Page 13
P20E	User Code #20	Page 13
P21E	User Code #21	Page 13
P22E	User Code #22	Page 13
P23E	User Code #23	Page 13
P24E	User Code #24	Page 13
P25E	User Code #25	Page 13
P26E	User Code #26	Page 13
P27E	User Code #27	Page 13
P28E	User Code #28	Page 13
P29E	User Code #29	Page 13
P30E	User Code #30	Page 13
P31E	User Code #31	Page 13
P32E	User Code #32	Page 13
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P34E	User Code #34	Page 13
P35E	User Code #35	Page 13
P36E	User Code #36	Page 13
P37E	User Code #37	Page 13
P38E	User Code #38	Page 13
P39E	User Code #39	Page 13
P40E	User Code #40	Page 13
P41E	User Code #41	Page 13
P42E	User Code #42	Page 13
P43E	User Code #43	Page 13
P44E	User Code #44	Page 13
P45E	User Code #45	Page 13
P46E	User Code #46	Page 13
P47E	User Code #47	Page 13
P48E	User Code #48	Page 13
P49E	User Code #49	Page 13
P50E	User Code #50	Page 13
P51E	User Code #51	Page 13
P52E	User Code #52	Page 13
P53E	User Code #53	Page 13

P54E	User Code #54	Page 13
P55E	User Code #55	Page 13
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P57E	User Code #57	Page 13
P58E	User Code #58	Page 13
P59E	User Code #59	Page 13
P60E	User Code #60	Page 13
P61E	User Code #61	Page 13
P62E	User Code #62	Page 13
P63E	User Code #63	Page 13
P64E	User Code #64	Page 13
P65E	User Code #65	Page 13
P66E	User Code #66	Page 13
P67E	User Code #67	Page 13
P68E	User Code #68	Page 13
P69E	User Code #69	Page 13
P70E	User Code #70	Page 13
P71E	User Code #71	Page 13
P72E	User Code #72	Page 13
P73E	User Code #73	Page 13
P74E	User Code #74	Page 13
P75E	User Code #75	Page 13
P76E	User Code #76	Page 13
P77E	User Code #77	Page 13
P78E	User Code #78	Page 13
P79E	User Code #79	Page 13
P80E	User Code #80	Page 13
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P82E	User Code #82	Page 13
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P84E	User Code #84	Page 13
P85E	User Code #85	Page 13
P86E	User Code #86	Page 13
P87E	User Code #87	Page 13
P88E	User Code #88	Page 13
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P90E	User Code #90	Page 13
P91E	User Code #91	Page 13
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P100E	User Code #100	Page 13

INSTALLER PROGRAM MODE

Programming User Code Group Number

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P104E	User Code #4 Group Number 1-20 - Default = 2	Page 14
P105E	User Code #5 Group Number 1-20 - Default = 2	Page 14
P106E	User Code #6 Group Number 1-20 - Default = 2	Page 14
P107E	User Code #7 Group Number 1-20 - Default = 2	Page 14
P108E	User Code #8 Group Number 1-20 - Default = 2	Page 14
P109E	User Code #9 Group Number 1-20 - Default = 2	Page 14
P110E	User Code #10 Group Number 1-20 - Default = 2	Page 14
P111E	User Code #11 Group Number 1-20 - Default = 2	Page 14
P112E	User Code #12 Group Number 1-20 - Default = 2	Page 14
P113E	User Code #13 Group Number 1-20 - Default = 2	Page 14
P114E	User Code #14 Group Number 1-20 - Default = 2	Page 14

P180E	User Code #80 Group Number 1-20 - Default = 2	Page 14
P181E	User Code #81 Group Number 1-20 - Default = 2	Page 14
P182E	User Code #82 Group Number 1-20 - Default = 2	Page 14
P183E	User Code #83 Group Number 1-20 - Default = 2	Page 14
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P197E	User Code #97 Group Number 1-20 - Default = 2	Page 14
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P199E	User Code #99 Group Number 1-20 - Default = 2	Page 14
P200E	User Code #100 Group Number 1-20 - Default = 2	Page 14

User Groups 1-20 Arm/Disarm Options

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P202E	User Arm/Disarm Options for Group #2 - Default 1,5,6	1 = Area "A" Page 14
P203E	User Arm/Disarm Options for Group #3 - Default 1,5,6	2 = Area "B" Page 14
P204E	User Arm/Disarm Options for Group #4 - Default 1,5,6	3 = Area "C" Page 14
P205E	User Arm/Disarm Options for Group #5 - Default 1,5,6	4 = Area "D" Page 14
P206E	User Arm/Disarm Options for Group #6 - Default 1,5,6	5 = Code can arm Page 14
P207E	User Arm/Disarm Options for Group #7 - Default 1,5,6	6 = Code can disarm Page 14
P208E	User Arm/Disarm Options for Group #8 - Default 1,5,6	7 = Code can arm stay mode Page 14
P209E	User Arm/Disarm Options for Group #9 - Default 1,5,6	8 = Code can disarm stay mode Page 14
P210E	User Arm/Disarm Options for Group #10 - Default 1,5,6	Page 14
P211E	User Arm/Disarm Options for Group #11 - Default 1,5,6	(To allow a Code/Pendant to control an Output P261-P300 turn all of the above options off for the Group to be assigned to the Code/pendant). Page 14
P212E	User Arm/Disarm Options for Group #12 - Default 1,5,6	Page 14
P213E	User Arm/Disarm Options for Group #13 - Default 1,5,6	Page 14
P214E	User Arm/Disarm Options for Group #14 - Default 1,5,6	Page 14
P215E	User Arm/Disarm Options for Group #15 - Default 1,5,6	Page 14
P216E	User Arm/Disarm Options for Group #16 - Default 1,5,6	Page 14
P217E	User Arm/Disarm Options for Group #17 - Default 1,5,6	Page 14
P218E	User Arm/Disarm Options for Group #18 - Default 1,5,6	Page 14
P219E	User Arm/Disarm Options for Group #19 - Default 1,5,6	Page 14
P220E	User Arm/Disarm Options for Group #20 - Default 1,5,6	Page 14

User Groups 1-20 Miscellaneous Options

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P224E	User Group #4 Miscellaneous Options - Default 5	3 = Can Print Event Memory Page 14
P225E	User Group #5 Miscellaneous Options - Default 5	4 = Can Answer an In-coming call Page 14
P226E	User Group #6 Miscellaneous Options - Default 5	5 = Can change Their Code Page 14
P227E	User Group #7 Miscellaneous Options - Default 5	6 = Can change All Codes Page 14
P228E	User Group #8 Miscellaneous Options - Default 5	7 = Allow access to Installer Mode Page 14
P229E	User Group #9 Miscellaneous Options - Default 5	8 = Child Unset Warning Page 14
P230E	User Group #10 Miscellaneous Options - Default 5	Page 14
P231E	User Group #11 Miscellaneous Options - Default 5	Page 14
P232E	User Group #12 Miscellaneous Options - Default 5	(If the User has Option 6 then they can also start the Walk-test Mode) Page 14
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P234E	User Group #14 Miscellaneous Options - Default 5	Page 14
P235E	User Group #15 Miscellaneous Options - Default 5	(If the User has option 7 then they can start the Walk-test Mode & do RSSI check) Page 14
P236E	User Group #16 Miscellaneous Options - Default 5	Page 14
P237E	User Group #17 Miscellaneous Options - Default 5	Page 14
P238E	User Group #18 Miscellaneous Options - Default 5	Page 14
P239E	User Group #19 Miscellaneous Options - Default 5	Page 14
P240E	User Group #20 Miscellaneous Options - Default 5	Page 14

User Groups 1-20 Radio Pendant Options

P241E	User Group #1 Radio Pendant Options - Default 0	User Groups Pendant Opts.	Page 15
P242E	User Group #2 Radio Pendant Options - Default 0	1 = Pendant Disabled in Alarm	Page 15
P243E	User Group #3 Radio Pendant Options - Default 0	2 = Immediate Panic Alarm	Page 15
P244E	User Group #4 Radio Pendant Options - Default 0	3 = Delayed Panic Alarm (1.5s)	Page 15
P245E	User Group #5 Radio Pendant Options - Default 0	4 = Spare	Page 15
P246E	User Group #6 Radio Pendant Options - Default 0	5 = Spare	Page 15
P247E	User Group #7 Radio Pendant Options - Default 0	6 = Spare	Page 15
P248E	User Group #8 Radio Pendant Options - Default 0	7 = Spare	Page 15
P249E	User Group #9 Radio Pendant Options - Default 0	8 = Spare	Page 15
P250E	User Group #10 Radio Pendant Options - Default 0		Page 15
P251E	User Group #11 Radio Pendant Options - Default 0		Page 15
P252E	User Group #12 Radio Pendant Options - Default 0		Page 15
P253E	User Group #13 Radio Pendant Options - Default 0		Page 15
P254E	User Group #14 Radio Pendant Options - Default 0		Page 15
P255E	User Group #15 Radio Pendant Options - Default 0		Page 15
P256E	User Group #16 Radio Pendant Options - Default 0		Page 15
P257E	User Group #17 Radio Pendant Options - Default 0		Page 15
P258E	User Group #18 Radio Pendant Options - Default 0		Page 15
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User Groups 1-20 Pendant Type Settings

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P262E	User Group #2 Radio Pendant Type - Default 0	0 = Generic Pendant	Page 16
P263E	User Group #3 Radio Pendant Type - Default 0	1 = Crow	Page 16
P264E	User Group #4 Radio Pendant Type - Default 0	21 = Ness	Page 16
P265E	User Group #5 Radio Pendant Type - Default 0		Page 16
P266E	User Group #6 Radio Pendant Type - Default 0		Page 16
P267E	User Group #7 Radio Pendant Type - Default 0		Page 16
P268E	User Group #8 Radio Pendant Type - Default 0		Page 16
P269E	User Group #9 Radio Pendant Type - Default 0		Page 16
P270E	User Group #10 Radio Pendant Type - Default 0		Page 16
P271E	User Group #11 Radio Pendant Type - Default 0		Page 16
P272E	User Group #12 Radio Pendant Type - Default 0		Page 16
P273E	User Group #13 Radio Pendant Type - Default 0		Page 16
P274E	User Group #14 Radio Pendant Type - Default 0		Page 16
P275E	User Group #15 Radio Pendant Type - Default 0		Page 16
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P277E	User Group #17 Radio Pendant Type - Default 0		Page 16
P278E	User Group #18 Radio Pendant Type - Default 0		Page 16
P279E	User Group #19 Radio Pendant Type - Default 0		Page 16
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User Groups 1-20 Outputs to turn On

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P283E	User Group #3 Outputs 1-8 to turn On - Default 0	(See P201-P220E)	Page 16
P284E	User Group #4 Outputs 1-8 to turn On - Default 0		Page 16
P285E	User Group #5 Outputs 1-8 to turn On - Default 0		Page 16
P286E	User Group #6 Outputs 1-8 to turn On - Default 0		Page 16
P287E	User Group #7 Outputs 1-8 to turn On - Default 0		Page 16
P288E	User Group #8 Outputs 1-8 to turn On - Default 0		Page 16
P289E	User Group #9 Outputs 1-8 to turn On - Default 0		Page 16
P290E	User Group #10 Outputs 1-8 to turn On - Default 0		Page 16
P291E	User Group #11 Outputs 1-8 to turn On - Default 0		Page 16
P292E	User Group #12 Outputs 1-8 to turn On - Default 0		Page 16
P293E	User Group #13 Outputs 1-8 to turn On - Default 0		Page 16
P294E	User Group #14 Outputs 1-8 to turn On - Default 0		Page 16
P295E	User Group #15 Outputs 1-8 to turn On - Default 0		Page 16
P296E	User Group #16 Outputs 1-8 to turn On - Default 0		Page 16
P297E	User Group #17 Outputs 1-8 to turn On - Default 0		Page 16
P298E	User Group #18 Outputs 1-8 to turn On - Default 0		Page 16
P299E	User Group #19 Outputs 1-8 to turn On - Default 0		Page 16

P300E User Group #20 Outputs 1-8 to turn On - Default 0

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User Groups 1-20 Outputs to turn Off

P301E User Group #1 Outputs 1-8 to turn Off - Default 0

User Groups Outputs Off.

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P302E User Group #2 Outputs 1-8 to turn Off - Default 0

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P303E User Group #3 Outputs 1-8 to turn Off - Default 0

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P304E User Group #4 Outputs 1-8 to turn Off - Default 0

(See P201-P220E)

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P305E User Group #5 Outputs 1-8 to turn Off - Default 0

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P306E User Group #6 Outputs 1-8 to turn Off - Default 0

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P307E User Group #7 Outputs 1-8 to turn Off - Default 0

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P308E User Group #8 Outputs 1-8 to turn Off - Default 0

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P309E User Group #9 Outputs 1-8 to turn Off - Default 0

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P310E User Group #10 Outputs 1-8 to turn Off - Default 0

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P311E User Group #11 Outputs 1-8 to turn Off - Default 0

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P312E User Group #12 Outputs 1-8 to turn Off - Default 0

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P313E User Group #13 Outputs 1-8 to turn Off - Default 0

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P314E User Group #14 Outputs 1-8 to turn Off - Default 0

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P315E User Group #15 Outputs 1-8 to turn Off - Default 0

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P316E User Group #16 Outputs 1-8 to turn Off - Default 0

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P317E User Group #17 Outputs 1-8 to turn Off - Default 0

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P318E User Group #18 Outputs 1-8 to turn Off - Default 0

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P320E User Group #20 Outputs 1-8 to turn Off - Default 0

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User Groups 1-20 Time Zone Control

P321E User Group #1 Time Zones 1-8 - Default 0

User Groups Time Zones.

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P322E User Group #2 Time Zones 1-8 - Default 0

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P323E User Group #3 Time Zones 1-8 - Default 0

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P324E User Group #4 Time Zones 1-8 - Default 0

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P325E User Group #5 Time Zones 1-8 - Default 0

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P326E User Group #6 Time Zones 1-8 - Default 0

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P327E User Group #7 Time Zones 1-8 - Default 0

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P328E User Group #8 Time Zones 1-8 - Default 0

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P329E User Group #9 Time Zones 1-8 - Default 0

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P330E User Group #10 Time Zones 1-8 - Default 0

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P331E User Group #11 Time Zones 1-8 - Default 0

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P332E User Group #12 Time Zones 1-8 - Default 0

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P333E User Group #13 Time Zones 1-8 - Default 0

Page 17

P334E User Group #14 Time Zones 1-8 - Default 0

Page 17

P335E User Group #15 Time Zones 1-8 - Default 0

Page 17

P336E User Group #16 Time Zones 1-8 - Default 0

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P337E User Group #17 Time Zones 1-8 - Default 0

Page 17

P338E User Group #18 Time Zones 1-8 - Default 0

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P339E User Group #19 Time Zones 1-8 - Default 0

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P340E User Group #20 Time Zones 1-8 - Default 0

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Zone Group Number 1-10 Assignment

P341E Zone 1 option Group # 1-10 - default 1

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P342E Zone 2 option Group # 1-10 - default 1

P343E Zone 3 option Group # 1-10 - default 1

P344E Zone 4 option Group # 1-10 - default 1

P345E Zone 5 option Group # 1-10 - default 0

P346E Zone 6 option Group # 1-10 - default 0

P347E Zone 7 option Group # 1-10 - default 0

P348E Zone 8 option Group # 1-10 - default 0

P349E Zone 9 option Group # 1-10 - default 0

P350E Zone 10 option Group # 1-10 - default 0

P351E Zone 11 option Group # 1-10 - default 0

P352E Zone 12 option Group # 1-10 - default 0

P353E Zone 13 option Group # 1-10 - default 0

P354E Zone 14 option Group # 1-10 - default 0

P355E Zone 15 option Group # 1-10 - default 0

P356E Zone 16 option Group # 1-10 - default 0

P357E Zone 17 option Group # 1-10 - default 0

P358E Zone 18 option Group # 1-10 - default 0

P359E Zone 19 option Group # 1-10 - default 0
P360E Zone 20 option Group # 1-10 - default 0
P361E Zone 21 option Group # 1-10 - default 0
P362E Zone 22 option Group # 1-10 - default 0
P363E Zone 23 option Group # 1-10 - default 0
P364E Zone 24 option Group # 1-10 - default 0
P365E Zone 25 option Group # 1-10 - default 0
P366E Zone 26 option Group # 1-10 - default 0
P367E Zone 27 option Group # 1-10 - default 0
P368E Zone 28 option Group # 1-10 - default 0
P369E Zone 29 option Group # 1-10 - default 0
P370E Zone 30 option Group # 1-10 - default 0
P371E Zone 31 option Group # 1-10 - default 0
P372E Zone 32 option Group # 1-10 - default 0
P373E Zone 33 option Group # 1-10 - default 0
P374E Zone 34 option Group # 1-10 - default 0
P375E Zone 35 option Group # 1-10 - default 0
P376E Zone 36 option Group # 1-10 - default 0
P377E Zone 37 option Group # 1-10 - default 0
P378E Zone 38 option Group # 1-10 - default 0
P379E Zone 39 option Group # 1-10 - default 0
P380E Zone 40 option Group # 1-10 - default 0
P381E Zone 41 option Group # 1-10 - default 0
P382E Zone 42 option Group # 1-10 - default 0
P383E Zone 43 option Group # 1-10 - default 0
P384E Zone 44 option Group # 1-10 - default 0
P385E Zone 45 option Group # 1-10 - default 0
P386E Zone 46 option Group # 1-10 - default 0
P387E Zone 47 option Group # 1-10 - default 0
P388E Zone 48 option Group # 1-10 - default 0
P389E Zone 49 option Group # 1-10 - default 0
P390E Zone 50 option Group # 1-10 - default 0
P391E Zone 51 option Group # 1-10 - default 0
P392E Zone 52 option Group # 1-10 - default 0
P393E Zone 53 option Group # 1-10 - default 0
P394E Zone 54 option Group # 1-10 - default 0
P395E Zone 55 option Group # 1-10 - default 0
P396E Zone 56 option Group # 1-10 - default 0
P397E Zone 57 option Group # 1-10 - default 0
P398E Zone 58 option Group # 1-10 - default 0
P399E Zone 59 option Group # 1-10 - default 0
P400E Zone 60 option Group # 1-10 - default 0
P401E Zone 61 option Group # 1-10 - default 10
P402E Zone 62 option Group # 1-10 - default 10
P403E Zone 63 option Group # 1-10 - default 10
P404E Zone 64 option Group # 1-10 - default 10

Installer Code Program Address

P410E Installer Code - Default 000000 - must be more than 3 digits long

Programming the 10 Zone Options that set the behaviour of the zone

Zone Group Arm/Disarm Options A Zone Options A

P411E Zone Group #1 Options A Default 1,6,7 1 = Assigned to Area "A"
P412E Zone Group #2 Options A Default 1,6,7 2 = Assigned to Area "B"
P413E Zone Group #3 Options A Default 1,6,7 3 = Assigned to Area "C"
P414E Zone Group #4 Options A Default 1,6,7 4 = Assigned to Area "D"
P415E Zone Group #5 Options A Default 1,6,7 5 = Is a Stay Mode Zone
P416E Zone Group #6 Options A Default 1,6,7 6 = Can be Manually Bypassed
P417E Zone Group #7 Options A Default 1,6,7 7 = Can Auto-bypass
P418E Zone Group #8 Options A Default 1,6,7 8 = Is a Day Zone
P419E Zone Group #9 Options A Default 1,6,7
P420E Zone Group #10 Options A Default 1,6,7

Zone Group Options B

P421E Zone Group #1 Options B Default 0
P422E Zone Group #2 Options B Default 0
P423E Zone Group #3 Options B Default 0
P424E Zone Group #4 Options B Default 0
P425E Zone Group #5 Options B Default 0
P426E Zone Group #6 Options B Default 0
P427E Zone Group #7 Options B Default 0
P428E Zone Group #8 Options B Default 0
P429E Zone Group #9 Options B Default 0
P430E Zone Group #10 Options B Default 0

Zone Group Options C

P431E Zone Group #1 Options C Default 1
P432E Zone Group #2 Options C Default 1
P433E Zone Group #3 Options C Default 1
P434E Zone Group #4 Options C Default 1
P435E Zone Group #5 Options C Default 1
P436E Zone Group #6 Options C Default 1
P437E Zone Group #7 Options C Default 1
P438E Zone Group #8 Options C Default 1
P439E Zone Group #9 Options C Default 1
P440E Zone Group #10 Options C Default 1

Zone Group Radio sensor Mode

P441E Zone Group #1 Radio Mode - Default 0
P442E Zone Group #2 Radio Mode - Default 0
P443E Zone Group #3 Radio Mode - Default 0
P444E Zone Group #4 Radio Mode - Default 0
P445E Zone Group #5 Radio Mode - Default 0
P446E Zone Group #6 Radio Mode - Default 0
P447E Zone Group #7 Radio Mode - Default 0
P448E Zone Group #8 Radio Mode - Default 0
P449E Zone Group #9 Radio Mode - Default 0
P450E Zone Group #10 Radio Mode - Default 0

Zone Group Voice Message

P451E Zone Group #1 Voice Msg # - Default 0
P452E Zone Group #2 Voice Msg # - Default 0
P453E Zone Group #3 Voice Msg # - Default 0
P454E Zone Group #4 Voice Msg # - Default 0
P455E Zone Group #5 Voice Msg # - Default 0
P456E Zone Group #6 Voice Msg # - Default 0
P457E Zone Group #7 Voice Msg # - Default 0
P458E Zone Group #8 Voice Msg # - Default 0
P459E Zone Group #9 Voice Msg # - Default 0
P460E Zone Group #10 Voice Msg # - Default 0

Zone Group Entry Delay Time

P461E Zone Group #1 Entry Delay - Default 20
P462E Zone Group #2 Entry Delay - Default 0
P463E Zone Group #3 Entry Delay - Default 0
P464E Zone Group #4 Entry Delay - Default 0
P465E Zone Group #5 Entry Delay - Default 0
P466E Zone Group #6 Entry Delay - Default 0
P467E Zone Group #7 Entry Delay - Default 0
P468E Zone Group #8 Entry Delay - Default 0
P469E Zone Group #9 Entry Delay - Default 0
P470E Zone Group #10 Entry Delay - Default 0

Zone Group Dialling Scenario

P471E Zone Group #1 Scenario # - Default 1
P472E Zone Group #2 Scenario # - Default 1

Zone Options B

1 = Is a 24 Hour Zone
2 = Is a 24 Hour Fire Zone
3 = Is a 24 Hour Auto-Reset Zone
4 = Is a Permanent Day Zone
5 = Is a Handover Zone
6 = Is a two Trigger Zone
7 = Can Arm if zone not "Ready"
8 = Is a Siren Lockout Zone

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Zone Options C

1 = Send Multiple reports via dialler
2 = Zone is monitored for Inactivity
3 = Zone is in Soak-test Mode
4 = Zone is NC or NO.
5 = Enable Zone Group PA Alarm msg
6 = Use Canned Zone Group PA Alarm msg
7 = Repeat Zone Group PA Alarm msg
8 = Use second supervise timer # 2

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Zone Radio Mode

0 = Single Non-specific radio code
1 = Crow AE Battery Low
2 = Crow AE reed Switch
3 = Crow Merlin - Supervised signal ignored
4 = Crow Merlin - Supervised signal active
5 = Fremlink Protocol with Checksum - Supervised
6 = Fremlink Protocol with Checksum - Non-supervised
11 = Ness battery low
12 = Ness Reed Switch
21 = Electronics Line Cougar PIR
31 = Visonic K980W PIR
32 = Powercode Supervised signal ignored (V1.05+)
33 = Powercode Supervised signal active (V1.05+)

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Zone Voice Alarm/PA Message Number

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This is the voice message all zones assigned to this group number will send when an alarm occurs on the zone. The message is used for both alarm reporting and local PA.

(If no message is assigned at this address the default "Canned" message will be played, see also P431-P440)

Zone Entry Delay Time

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This is the entry delay time all zones assigned with this group number will use when armed. A zero here means the zone is instant. A value from 0-9999 seconds can be entered.

Zone Dialling Scenario Number

Page 22

This is the scenario a zone assigned with this group number will use when reporting an alarm event

P473E Zone Group #3 Scenario # - Default 1
P474E Zone Group #4 Scenario # - Default 1
P475E Zone Group #5 Scenario # - Default 1
P476E Zone Group #6 Scenario # - Default 1
P477E Zone Group #7 Scenario # - Default 1
P478E Zone Group #8 Scenario # - Default 1
P479E Zone Group #9 Scenario # - Default 1
P480E Zone Group #10 Scenario # - Default 1

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Zone Group Alarm Contact ID Reporting Code

P481E Zone Group #1 Contact ID Alarm Code (Default = 130)
P482E Zone Group #2 Contact ID Alarm Code (Default = 130)
P483E Zone Group #3 Contact ID Alarm Code (Default = 130)
P484E Zone Group #4 Contact ID Alarm Code (Default = 130)
P485E Zone Group #5 Contact ID Alarm Code (Default = 130)
P486E Zone Group #6 Contact ID Alarm Code (Default = 130)
P487E Zone Group #7 Contact ID Alarm Code (Default = 130)
P488E Zone Group #8 Contact ID Alarm Code (Default = 130)
P489E Zone Group #9 Contact ID Alarm Code (Default = 130)
P490E Zone Group #10 Contact ID Alarm Code (Default = 130)

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Zone Group Contact ID Tamper Reporting Code

P491E Zone Group #1 Contact ID Tamper Code (Default = 137)
P492E Zone Group #2 Contact ID Tamper Code (Default = 137)
P493E Zone Group #3 Contact ID Tamper Code (Default = 137)
P494E Zone Group #4 Contact ID Tamper Code (Default = 137)
P495E Zone Group #5 Contact ID Tamper Code (Default = 137)
P496E Zone Group #6 Contact ID Tamper Code (Default = 137)
P497E Zone Group #7 Contact ID Tamper Code (Default = 137)
P498E Zone Group #8 Contact ID Tamper Code (Default = 137)
P499E Zone Group #9 Contact ID Tamper Code (Default = 137)
P500E Zone Group #10 Contact ID Tamper Code (Default = 137)

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Zone Group Reporting Account

P501E Zone Group #1 Account # - Default 1
P502E Zone Group #2 Account # - Default 1
P503E Zone Group #3 Account # - Default 1
P504E Zone Group #4 Account # - Default 1
P505E Zone Group #5 Account # - Default 1
P506E Zone Group #6 Account # - Default 1
P507E Zone Group #7 Account # - Default 1
P508E Zone Group #8 Account # - Default 1
P509E Zone Group #9 Account # - Default 1
P510E Zone Group #10 Account # - Default 1

Report alarms to Account A-D

Page 23

If a zone is in more than one Area, this address allows you to program which account code it will use when reporting alarms.
 (1 = Area A, 2 = Area B, 3 = Area C, 4 = Area D)

Partition "A" Primary Output Options

P511E Area "A" primary options for output #1 - Default 1
P512E Area "A" primary options for output #2 - Default 1 & 2
P513E Area "A" primary options for output #3 - Default 1
P514E Area "A" primary options for output #4 - Default 1
P515E Area "A" primary options for output #5 - Default 1
P516E Area "A" primary options for output #6 - Default 1
P517E Area "A" primary options for output #7 - Default 1
P518E Area "A" primary options for output #8 - Default 1

P511E-P518E OPTIONS

1 = Standard zone activation's Page 23
 2 = Stay Mode activation's Page 23
 3 = Radio key chirps Page 23
 4 = All zones sealed (ready) Page 23
 5 = 2 sec pulse on arm / disarm Page 23
 6 = Day zone activation's Page 23
 7 = Spare Page 23
 8 = Spare Page 23

Partition "A" Keypad Options

P519E Arm key can disarm during exit - Default 1-8
P520E Stay key can disarm during Stay armed state. - Default 1-8

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Partition "A" Secondary Output Options

P521E Area "A" secondary options for output #1 - Default 0
P522E Area "A" secondary options for output #2 - Default 0
P523E Area "A" secondary options for output #3 - Default 0
P524E Area "A" secondary options for output #4 - Default 0

P411E-P418E OPTIONS

1 = Any bypass Page 24
 2 = Auto bypass warning Page 24
 3 = Entry beeps Page 24
 4 = Exit beeps Page 24

P525E	Area "A" secondary options for output #5 - Default 0	5 = Follow Set Arming	Page 24
P526E	Area "A" secondary options for output #6 - Default 0	6 = Follow Stay Arming	Page 24
P527E	Area "A" secondary options for output #7 - Default 0	7 = Follow Unset	Page 24
P528E	Area "A" secondary options for output #8 - Default 0	8 = Spare	Page 24

Programming Partition "A" Auto Arm/Disarm Time-zones

P529E	Time Zones used for Area "A" auto arming /disarming- Default 0 (see P532E)	Page 25
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Partition "A" Misc Options

P530E	Misc partition options 1 - Default = 6	1 = Cannot Arm if not sealed 2 = "Arm" required before code 3 = "Stay" required before code 4 = Code required to arm 5 = Code required to "Bypass" zones 6 = Control/Chime disables day zones 7 = Repeat System PA messages 8 = Spare	Page 25
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P531E	Misc partition options 2 - Default 3,4,6	1 = Key-switch enabled 2 = Use 2nd Key-switch 3 = Key-switch ARM's/STAY 4 = Pendant chirps when Armed 5 = Pendant chirps when in Stay Mode 6 = 2 sec pulse at set 7 = 2 sec pulse at unset 8 = Cannot Arm if System Battery is Low	Page 26
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P532E	PARTITION "A" TIME AND DELAY OPTIONS -Default = 0	1 = Set partition When Time Zone Ends 2 = Unset Partition When Time Zone Starts 3 = Disable Stay Mode Exit Delay 4 = Disable Set Mode Exit Delay 5 = Disable Stay Mode Entry Delay 6 = Disable Set Mode Entry Delay 7 = Use special Stay Mode entry timer 8 = Report Stay Mode alarms & Bypasses via dialler	Page 27
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Enabling Local PA Message Options

P533E	1 = Enable PA Disarm msg -Default = 0 2 = Use Canned PA Disarm msg 3 = Repeat PA Disarm msg 4 = Spare 5 = Enable PA Armed msg 6 = Use Canned PA Armed msg 7 = Repeat PA Armed msg 8 = Spare	Page 27
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P534E	1 = Enable PA Stay Armed msg -Default = 0 2 = Use Canned PA Stay Armed msg 3 = Repeat Stay PA Armed msg 4 = Spare 5 = Spare 6 = Spare 7 = Spare 8 = Spare	Page 28
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** Dialler Reporting Options for partition "A" **

P535E	Area A reporting options -Default = 1,2	1 = Send arm / disarm 2 = Send Stay Mode arm/disarm 3 = Send disarm only after activation's 4 = Send Stay Mode disarm only after alarm	5 = Send arm when exit delay expires (LED On) 6 = Send all zone restores at disarm only 7 = Spare 8 = Spare	Page 29
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**Area "A" Contact ID Account Code **

P536E	Account number for Area "A" - default 0000	Page 29
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**Area "A" Arm/Disarm Reporting Scenario **

P537E	Area A Arm/Disarm reports mapped to scenario 1-4 default 1	Page 29
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****Area “A” Child Disarm Reporting Scenario ****

P538E Area A Child Disarm Reporting scenario 1-4 default 1

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Enrolling Radio Detectors -Zones 1-60

P540E 1-60E Enrol Radio Detector Zones 1-60

Page 31

(If the zone Group assigned to a zone {P341-P404E} is set to a radio device type that incorporates a tamper switch before attempting to load the radio zone , e.g. Type #5 “Crow supervised protocol” at addresses P441-P450E, then the panel will only load on the tamper switch opening alarm transmission. If the radio device type for the assigned group is “0” the panel will load on any transmission).

Programming Output Options

P541E Output #1 Primary options - Default none
P542E Output #2 Primary options - Default none
P543E Output #3 Primary options - Default none
P544E Output #4 Primary options - Default none
P545E Output #5 Primary options - Default none
P546E Output #6 Primary options - Default none
P547E Output #7 Primary options - Default none
P548E Output #8 Primary options - Default none

P541E-P548E OPTIONS

1 = Invert Page 32
2 = Flashing Page 32
3 = Single pulse Page 32
4 = One Shot (lock-out) Page 32
5 = DTMF cmd remote control Page 32
6 = Local command control Page 32
7 = Day zone linked to pulse timer Page 32
8 = Pulsed 24 Hour alarm Page 32

Enrolling Radio Keys

P550E 21-100E Enrol Radio Users 21-100

Page 31

(Radio Pendants can occupy User slots 21-100. If a Pendant is programmed against a User slot, that User slot is not available as a code User).

Alarms to Output Options

P551E Output #1 Alarm options - Default 1,3,4,6
P552E Output #2 Alarm options - Default 1,3,4,6
P553E Output #3 Alarm options - Default 1,3,4,6
P554E Output #4 Alarm options - Default 1,3,4,6
P555E Output #5 Alarm options - Default 1,3,4,6
P556E Output #6 Alarm options - Default 1,3,4,6
P557E Output #7 Alarm options - Default 1,3,4,6
P558E Output #8 Alarm options - Default 1,3,4,6

P551E-P558E OPTIONS

1 = Keypad panic to output Page 33
2 = Keypad fire to output Page 33
3 = Keypad medical to output Page 33
4 = Duress Alarm to output Page 33
5 = Keypad tamper to output Page 33
6 = Radio key panic to output Page 33
7 = 24 hour alarms Page 33
8 = 24 hour fire alarms

Erasing individual Radio codes by transmitting the code

P560E Erase a Transmitted radio code from All Memory Locations

Page 31

(When erase mode is started and the panel gets a code from the receiver, if that code exists in memory and its radio device type is “0” {see P540E above}, the code will be erased from memory. If the code found in memory has a radio device type that incorporates a tamper switch, e.g. Type #5 “Crow supervised protocol” at addresses P441-P450E, then the panel will only erase on the tamper switch opening alarm transmission).

Secondary Alarms to Output Options

P561E Output #1 Secondary Alarm options 2 - Default 1,2
P562E Output #2 Secondary Alarm options 2 - Default 1,2
P563E Output #3 Secondary Alarm options 2 - Default 1,2
P564E Output #4 Secondary Alarm options 2 - Default 1,2
P565E Output #5 Secondary Alarm options 2 - Default 1,2
P566E Output #6 Secondary Alarm options 2 - Default 1,2
P567E Output #7 Secondary Alarm options 2 - Default 1,2
P568E Output #8 Secondary Alarm options 2 - Default 1,2

P561E-P568E OPTIONS

1 = Zone tampers to output Page 34
2 = Cabinet tamper to output Page 34
3 = Mains fail to output Page 34
4 = Battery low to output Page 34
5 = Phone Line failure Page 34
6 = Failure to get kiss-off Page 34
7 = Automatic pulse every 5 sec. Page 34
8 = 24 Hour alarm reset pulse

ITA Received Signal Strength (RSSI) for Radio Zones 1-60

P569E 1-60E ITA RSSI for Radio Zones 1-64 (Raised lower received level in this mode)

Page 32

Received Signal Strength (RSSI) for Radio Zones 1-60

P570E 1-60E RSSI for Radio Zones 1-64

Page 32

Programming Output PA Options

P571E Output #1 Local PA settings -Default = 0
P572E Output #2 Local PA settings -Default = 0
P573E Output #3 Local PA settings -Default = 0

P571E-P578E OPTIONS

1 = Enable PA O/P On msg Page 34
2 = Use Canned On msg Page 34

P574E	Output #4 Local PA settings -Default = 0	3 = Repeat On msg	Page 34
P575E	Output #5 Local PA settings -Default = 0	4 = Spare	Page 34
P576E	Output #6 Local PA settings -Default = 0	5 = Enable PA O/P Off msg	Page 34
P577E	Output #7 Local PA settings -Default = 0	6 = Use Canned Off msg	Page 34
P578E	Output #8 Local PA settings -Default = 0	7 = Repeat Off msg	Page 34
		8 = Spare	

Received Signal Strength (RSSI) for Radio Pendants 21-100

P580E 21-100E	RSSI for Radio Pendants 21-100	Page 32
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Programming Output On/Off Time Zone

P581E	Output #1 Automatic on / off time zones - Default 0 (never)	Page 35
P582E	Output #2 Automatic on / off time zones - Default 0 (never)	Page 35
P583E	Output #3 Automatic on / off time zones - Default 0 (never)	Page 35
P584E	Output #4 Automatic on / off time zones - Default 0 (never)	Page 35
P585E	Output #5 Automatic on / off time zones - Default 0 (never)	Page 35
P586E	Output #6 Automatic on / off time zones - Default 0 (never)	Page 35
P587E	Output #7 Automatic on / off time zones - Default 0 (never)	Page 35
P588E	Output #8 Automatic on / off time zones - Default 0 (never)	Page 35

Programming Output Inhibit Time Zones

P591E	Output #1 Enable time zones - Default 0 (always)	Page 35
P592E	Output #2 Enable time zones - Default 0 (always)	Page 35
P593E	Output #3 Enable time zones - Default 0 (always)	Page 35
P594E	Output #4 Enable time zones - Default 0 (always)	Page 35
P595E	Output #5 Enable time zones - Default 0 (always)	Page 35
P596E	Output #6 Enable time zones - Default 0 (always)	Page 35
P597E	Output #7 Enable time zones - Default 0 (always)	Page 35
P598E	Output #8 Enable time zones - Default 0 (always)	Page 35

Miscellaneous System Options

P601E	Options - Default 3,5,7,8	1 = Ignore Mains fail 2 = Ignore Zone Tamperers during exit delay 3 = Installer code direct access 4 = Installer lockout 5 = System Tamper EOL or Short circuit loop 6 = Zones 61-64 use 2k2 EOL of short circuit loop 7 = Key-switch # 1 Momentary or latch 8 = Key-switch # 2 Momentary or latch	Page 35
P602E	Hardwired Zone Options -Default = 3	1 = Zone Doubling on input 61 (Zone 63 enabled) 2 = Zone Doubling on input 62 (Zone 64 enabled) 3 = RSSI Scale. On = Fremlink RSSI, Off = AAP Ash RSSI 4 = No Output data to keypad buss (Off = No O/P data on buss) 5 = Output 1 switched or siren mode 6 = Inhibit Arming if "Radio Activity Failure" alarm active 7 = Test for RF Interference 8 = Installer Must Reset a System Tamper Alarm	Page 36

Programming Duress Digit

P603E	Duress Digit (Value can be 1-9, 0 = disabled) default 0	Page 18
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Hardwired Zones 61-64 Response Time Settings

P604E	Zone response settings default = 6 (value 1-31E)	Page 23
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** Upload/Download Security Code **

P605E	XXXXXXXX. Up to 8 digit security code -Default = 0	Page 54
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Keypad Listen-in Options

P606E	Keypad Listen-in Options	P212E Options (Default = 1-7 On)	Page 53
		1 = Enabled During Dialling in Disarm State only 2 = Enabled During Dialling in Armed State only 3 = Enabled During Dialling in Monitor 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 Monitor Mode State only 7 = Listen-in Enabled when the panel answers a call	

8 = Enabled at All Times

****Listen-in via internal speaker Options****

P607E Listen-in via internal speaker

P443E Options (Default = Off)

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- 1 = Enabled During Dialling in Disarm State only
- 2 = Enabled During Dialling in Armed State only
- 3 = Enabled During Dialling in Monitor 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 Monitor Mode State only
- 7 = Listen-in Enabled when the panel answers a call
- 8 = Delay hangup on Voice Alarm kissoff & turn on O/P 4

Partition "B" Primary Output Options

P611E-P618E OPTIONS

P611E	Area "B" primary options for output #1 - Default 1	1 = Standard zone activation's	Page 23
P612E	Area "B" primary options for output #2 - Default 1 & 2	2 = Stay Mode activation's	Page 23
P613E	Area "B" primary options for output #3 - Default 1	3 = Radio key chirps	Page 23
P614E	Area "B" primary options for output #4 - Default 1	4 = All zones sealed (Ready)	Page 23
P615E	Area "B" primary options for output #5 - Default 1	5 = 2 sec pulse arm/disarm	Page 23
P616E	Area "B" primary options for output #6 - Default 1	6 = Day zone activation's	Page 23
P617E	Area "B" primary options for output #7 - Default 1	7 = Spare	Page 23
P618E	Area "B" primary options for output #8 - Default 1	8 = Spare	Page 23

Partition "B" Keypad Options

P619E Arm key can disarm during exit - Default 1-8

Page 25

P620E Stay key can disarm during Stay armed state - Default 1-8

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Partition "B" Secondary Output Options

P621E-P628E OPTIONS

P621E	Area "B" secondary options for output #1 - Default 0	1 = Any bypass	Page 24
P622E	Area "B" secondary options for output #2 - Default 0	2 = Auto bypass warning	Page 24
P623E	Area "B" secondary options for output #3 - Default 0	3 = Entry beeps	Page 24
P624E	Area "B" secondary options for output #4 - Default 0	4 = Exit beeps	Page 24
P625E	Area "B" secondary options for output #5 - Default 0	5 = Follow Set Arming	Page 24
P626E	Area "B" secondary options for output #6 - Default 0	6 = Follow Stay Arming	Page 24
P627E	Area "B" secondary options for output #7 - Default 0	7 = Follow Unset	Page 24
P628E	Area "B" secondary options for output #8 - Default 0	8 = Spare	Page 24

Programming Partition "B" Auto Arm/Disarm Time-zones

P629E Time Zones used for Area "B" auto arming /disarming- Default 0 (see P632E)

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Partition "B" Misc Options

P630E Misc partition options 1 - Default 0

- 1 = Cannot Arm if not sealed
- 2 = "Arm" required before code
- 3 = "Stay" required before code
- 4 = Code required to arm
- 5 = Code required to "Bypass" zones
- 6 = Control/Chime disables day zones
- 7 = Repeat System PA messages
- 8 = Spare

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P631E Misc partitions options 2 - Default 3,4,6

- 1 = Key-switch enabled
- 2 = Use 2nd Key-switch
- 3 = Key-switch ARM's/STAY
- 4 = Pendant chirps when armed
- 5 = Pendant chirps when in Stay Mode
- 6 = 2 sec pulse at set
- 7 = 2 sec pulse at unset
- 8 = Cannot Arm if System Battery is Low

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P632E **PARTITION "B" TIME AND DELAY OPTIONS** -Default = 0

Page 27

- 1 = Set partition When Time Zone Ends
- 2 = Unset Partition When Time Zone Starts
- 3 = Disable Stay Mode Exit Delay
- 4 = Disable Set Mode Exit Delay

- ## Enabling Local PA Message Options

P633E	1 = Enable PA Disarm msg -Default = 0	Page 27
	2 = Use Canned PA Disarm msg	
	3 = Repeat PA Disarm msg	
	4 = Spare	
	5 = Enable PA Armed msg	
	6 = Use Canned PA Armed msg	Page 27
	7 = Repeat PA Armed msg	
	8 = Spare	

P634E 1 = Enable PA Stay Armed msg -Default = 0
2 = Use Canned PA Stay Armed msg
3 = Repeat Stay PA Armed msg
4 = Spare
5 = Spare
6 = Spare
7 = Spare
8 = Spare

**** Dialer Reporting Options for partition "B" ****

P635E Area B reporting options -Default = 1,2 Page 29

1 = Send arm / disarm	5 = Send arm when exit delay expires (LED On)
2 = Send Stay Mode arm/disarm	6 = Send all zone restores at disarm only
3 = Send disarm only after activation's	7 = Spare
4 = Send Stay Mode disarm only after alarm	8 = Spare

**** Area "B" Contact ID Account Code ****

P636E Account number for Area "B" - default 0000 Page 29

****Area “B” Arm/Disarm Reporting Scenario ****

P637E Area B Arm/Disarm reports mapped to scenario 1-4 default 1 Page 29

****Area “B” Child Disarm Reporting Scenario ****

P638E Area B Child Disarm Reporting scenario 1-4 default 1 Page 30

Programming Keypad Options

P640E	Keypads assigned to Area "A" - Default 1-8	Page 37
P641E	Keypads assigned to Area "B" - Default none	Page 37
P642E	Keypads assigned to Area "C" - Default none	Page 37
P643E	Keypads assigned to Area "D" - Default none	Page 37
P644E	Keypads with permission to Arm - Default 1-8	Page 37
P645E	Keypads with permission to arm Stay Mode - Default 1-8	Page 37
P646E	Keypads with permission to use control function - Default 1-8	Page 37
P647E	Keypads with permission to bypass zones - Default 1-8	Page 37
P648E	Keypads (LED) with Panic Button enabled - Default none	Page 37
P649E	Keypads (LED) with Delayed Panic Button enabled - Default 1-8	Page 37
P650E	Keypads with dual button Panic Alarm enabled - Default 1-8	Page 21
P651E	Keypads with dual button Fire Alarm enabled - Default 1-8	Page 37
P652E	Keypads with dual button Medical Alarm enabled - Default 1-8	Page 37
P653E	Keypads with buzzer mapped for alarm tone for armed zone alarms - Default 1-8	Page 37
P654E	Keypads with buzzer mapped for alarm tone for stay mode zone alarms - Default 1-8	Page 37
P655E	Keypads with buzzer mapped for alarm tone for 24 hour zone alarms - Default 1-8	Page 37
P656E	Keypads with buzzer mapped for alarm tone for day mode zones - Default 1-8	Page 37
P657E	Keypads with buzzer mapped to indicate Arm Mode exit delay beeps - Default 1-8	Page 37
P658E	Keypads with buzzer mapped to indicate Stay Mode exit delay beeps - Default 1-8	Page 38
P659E	Keypads with buzzer mapped to indicate entry delay beeps - Default 1-8	Page 38
P660E	Keypads with buzzer mapped for supervised radio timeout, or zone inactivity alarm - Default 1-8	Page 38
P661E	Keypads with buzzer mapped to keypad tamper - Default 1-8	Page 38
P662E	Keypads with buzzer mapped to zone tamper - Default 1-8	Page 38
P663E	Keypads with buzzer mapped to cabinet tamper - Default 1-8	Page 38
P664E	Keypads with buzzer mapped to indicate RF signal blocked - Default 1-8	Page 38

P665E	Keypads with buzzer mapped to Radio Pendant "Panic" Alarm - Default 1-8	Page 38
P666E	Keypads with buzzer mapped to "Panic" Alarm - Default 1-8	Page 38
P667E	Keypads with buzzer mapped to "Fire" Alarm - Default None	Page 38
P668E	Keypads with buzzer mapped to "Medical" Alarm - Default None	Page 38
P669E	Keypads with buzzer mapped to line failure - Default none	Page 38
P670E	Keypads with facility to turn off LED's after exit delay - Default none	Page 38
P671E	Keypads that will turn off all LED's and backlighting during power failure- Default none	Page 38
P672E	Keypad "A" Button Arm Functions -Default = 1	P672 & P763 SPECIAL FUNCTION OPTIONS Page 38
P673E	Keypad "B" Button Arm Functions -Default = 2	1 = Arms Area A 5 = Arms in "Child Disarm" mode

2 = Arms Area B 6 = Spare
3 = Arms Area C 7 = Spare
4 = Arms Area D 8 = Spare

** Test Calls **

P676E	Test calls for days of the week 1-7 Default = 1-7	Page 52
P677E	Test call time of the day default = 2300	Page 52

Setting the Real Time Clock

P678E	Set day of the week (1 -7 where 1 = Sunday)	Page 41
P679E	Set time (HHMM)	Page 41
P680E	Set day of the month (1 - 31)	Page 41
P681E	Set month (1 - 12)	Page 41
P682E	Set year	Page 41

Programming Daylight saving Adjustments

P683E	Daylight saving start Sunday - Default 1	Page 41
P684E	Daylight saving start month - Default 10	Page 41
P685E	Daylight saving start hour - Default 2	Page 41
P686E	Daylight saving end Sunday - Default 3	Page 41
P687E	Daylight saving end month - Default 3	Page 41
P688E	Daylight saving end hour - Default 3	Page 41

Dynamic Data

P689E	Misc system flags	1-7 = Spare 8=Daylight saving active	Page 42
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** Telephone Number Pre-fix **

P690E	Telephone Number Pre-fix -Default = 0	Page 49
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** Programming Telephone Numbers **

P691E	Telephone Number 1 -Default = 0	Page 49
P692E	Telephone Number 2 -Default = 0	Page 49
P693E	Telephone Number 3 -Default = 0	Page 49
P694E	Telephone Number 4 -Default = 0	Page 49
P695E	Telephone Number 5 -Default = 0	Page 49
P696E	Telephone Number 6 -Default = 0	Page 49

Telephone Number Reporting Options

P697E	Reporting Opts. Ph # 1 (Default= 1)	P387E-P392E Options	Page 50
P698E	Reporting Opts. Ph # 2 (Default= None)	1 = Contact ID	
P699E	Reporting Opts. Ph # 3 (Default= None)	2 = Domestic Dial	
P700E	Reporting Opts. Ph # 4 (Default= None)	3 = Pager	
P701E	Reporting Opts. Ph # 5 (Default= None)	4 = Speech Dialler	
P702E	Reporting Opts. Ph # 6 (Default= None)	5 = 4+2 10pps (Handshake 1400/ Tone 1800)	
		6 = 4+2 10pps (Handshake 1400/ Tone 1900)	
		7 = 4+2 10pps (Handshake 2300/ Tone 1800)	
		8 = 4+2 10pps (Handshake 2300/ Tone 1900)	
		9 = 4+2 20pps (Handshake 1400/ Tone 1800)	
		10= 4+2 20pps (Handshake 1400/ Tone 1900)	
		11= 4+2 20pps (Handshake 2300/ Tone 1800)	
		12= 4+2 20pps (Handshake 2300/ Tone 1900)	
		13= 4+2 DTMF	

Telephone Number Reporting Options

P703E	Options for Telephone # 1	P393E-P398E Options (Default =1,4,5)	Page 51
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P704E	Options for Telephone # 2	1 = Monitor Call Progress
P705E	Options for Telephone # 3	2 = Blind Dial
P706E	Options for Telephone # 4	3 = Use Group Numbers for Contact ID
P707E	Options for Telephone # 5	4 = Send Restores
P708E	Options for Telephone # 6	5 = Send Test Calls
		6 = Add Ph Pre-fix to telephone number
		7 = Dial using Long DTMF Tones
		8 = Ignore Kiss off in Domestic Mode

Partition "C" Primary Output Options

P711E-P718E OPTIONS

P711E	Area "C" primary options for output #1- Default 1	1 = Standard zone activation's	Page 23
P712E	Area "C" primary options for output #2 - Default 1 & 2	2 = Stay Mode activation's	Page 23
P713E	Area "C" primary options for output #3 - Default 1	3 = Radio key chirps	Page 23
P714E	Area "C" primary options for output #4 - Default 1	4 = All zones sealed (ready)	Page 23
P715E	Area "C" primary options for output #5 - Default 1	5 = 2 sec pulse on arm/disarm	Page 23
P716E	Area "C" primary options for output #6 - Default 1	6 = Day zone activation's	Page 23
P717E	Area "C" primary options for output #7 - Default 1	7 = Spare	Page 23
P718E	Area "C" primary options for output #8 - Default 1	8 = Spare	Page 23

Partition "C" Keypad Options

P719E	Arm key can disarm during exit - Default 1-8	Page 25
P720E	Stay key can disarm during Stay armed state - Default 1-8	Page 25

Partition "C" Secondary Output Options

P721E-P728E OPTIONS

P721E	Area "C" secondary options for output #1 - Default 0	1 = Any exclude	Page 24
P722E	Area "C" secondary options for output #2 - Default 0	2 = Auto exclude warn	Page 24
P723E	Area "C" secondary options for output #3 - Default 0	3 = Entry beeps	Page 24
P724E	Area "C" secondary options for output #4 - Default 0	4 = Exit Beeps	Page 24
P725E	Area "C" secondary options for output #5 - Default 0	5 = Control	Page 24
P726E	Area "C" secondary options for output #6 - Default 0	6 = Follow Set Arming	Page 24
P727E	Area "C" secondary options for output #7 - Default 0	7 = Follow Stay Arming	Page 24
P728E	Area "C" secondary options for output #8 - Default 0	8 = Follow Unset	Page 24

Programming Partition "C" Auto Arm/Disarm Time-zones

P729E	Time Zones used for Area "C" auto arming /disarming- Default 0 (see P732E)	Page 25
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Partition "C" Misc Options

P730E	Misc partition options 1 - Default 0	1 = Cannot Arm if not sealed	Page 25
		2 = "Arm" required before code	
		3 = "Stay" required before code	
		4 = Code required to arm	
		5 = Code required to "Bypass" zones	
		6 = Control disables day zones	
		7 = Repeat System PA messages	
		8 = Spare	
P731E	Misc partition options 2 - Default 3,4,6	1 = Key-switch enabled	Page 26
		2 = Use 2nd Key-switch	
		3 = Key-switch ARM's/STAY	
		4 = Pendant chirps when armed	
		5 = Pendant chirps when in Stay Mode	
		6 = 2 sec pulse at set	
		7 = 2 sec pulse at unset	
		8 = Cannot Arm if System Battery is Low	

P732E	PARTITION "C" TIME AND DELAY OPTIONS - Default 0	Page 27
	1 = set partition When Time Zone Ends	
	2 = Unset Partition When Time Zone Starts	
	3 = Disable Stay Mode Exit Delay	
	4 = Disable Set Mode Exit Delay	
	5 = Disable Stay Mode Entry Delay	
	6 = Disable Set Mode Entry Delay	
	7 = Use special Stay Mode entry timer	
	8 = Report Stay Mode alarms & Bypasses via dialler	

Enabling Local PA Message Options

P733E 1 = Enable PA Disarm msg -Default = 0
 2 = Use Canned PA Disarm msg
 3 = Repeat PA Disarm msg
 4 = Spare
 5 = Enable PA Armed msg
 6 = Use Canned PA Armed msg
 7 = Repeat PA Armed msg
 8 = Spare

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P734E 1 = Enable PA Stay Armed msg -Default = 0
 2 = Use Canned PA Stay Armed msg
 3 = Repeat Stay PA Armed msg
 4 = Spare
 5 = Spare
 6 = Spare
 7 = Spare
 8 = Spare

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** Dialler Reporting Options for partition "C" **

P735E Area C reporting options -Default = 1,2

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1 = Send arm / disarm	5 = Send arm when exit delay expires (LED On)
2 = Send Stay Mode arm/disarm	6 = Send all zone restores at disarm only
3 = Send disarm only after activation's	7 = Spare
4 = Send Stay Mode disarm only after alarm	8 = Spare

** Area "C" Contact ID Account Code **

P736E Account number for Area "C" - default 0000

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**Area "C" Arm/Disarm Reporting Scenario **

P737E Area C Arm/Disarm reports mapped to scenario 1-4 default 1

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**Area "C" Child Disarm Reporting Scenario **

P738E Area C Child Disarm Reporting scenario 1-4 default 1

Page 30

** Command Control Options **

P741E Command code for Area "A" control

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P742E Command code for Area "B" control

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P743E Command code for Area "C" control

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P744E Command code for Area "D" control

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P745E Command code for output control

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P746E Command code to turn "MICROPHONE" On

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Keypad Panic Alarm Contact ID Reporting Code

P747E Keypad Panic Alarm (& button 1 & 3) Contact ID Code (Default=120)

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Keypad Fire Alarm Contact ID Reporting Code

P748E Keypad Fire Alarm (button 4 & 6) Contact ID Code (Default=110)

Page 53

Keypad Medical Alarm Contact ID Reporting Code

P749E Keypad Medical Alarm (button 7 & 9) Contact ID Code (Default=100)

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** System reporting Options **

P750E System options (Default = 2,6,7)

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1 = Enable communicator
 2 = Fax defeat
 3 = Disable line monitoring
 4 =DTMF or Pulse

5 = Reverse Style Pulse
 6 = Report 24hr alarms in Voice/Domestic
 7 = Auto-Detect Modem Format
 8 = Force Bell103/V21

** Reporting Scenarios **

P752E Reporting Scenario #1 options (Default = 1,7)

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P753E Reporting Scenario #2 options (Default = 0)

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P754E Reporting Scenario #3 options (Default = 0)

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P755E Reporting Scenario #4 options (Default = 0)

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** Maximum Dialling Attempts per Scenario **

P756E	Max Dial Attempts for Scenario Number 1-Value 1-99 (Default=20)		Page 49
P757E	Max Dial Attempts for Scenario Number 2-Value 1-99 (Default=20)		Page 49
P758E	Max Dial Attempts for Scenario Number 3-Value 1-99 (Default=20)		Page 49
P759E	Max Dial Attempts for Scenario Number 4-Value 1-99 (Default=20)		Page 49
** Auto Answer Ring Count **			
P760E	Auto-answer ring count - default = 25		Page 54
Output Reset Times			
P761E	Output #1 reset time - Default 600 sec	Reset time values	Page 38
P762E	Output #2 reset time - Default 600 sec	0 = latching	Page 38
P763E	Output #3 reset time - Default 600 sec	1-999 = 1 to 999 seconds	Page 38
P764E	Output #4 reset time - Default 600 sec		Page 38
P765E	Output #5 reset time - Default 0 sec		Page 38
P766E	Output #6 reset time - Default 0 sec		Page 38
P767E	Output #7 reset time - Default 0 sec		Page 38
P768E	Output #8 reset time - Default 0 sec		Page 38
** Mains Failure Reporting Delay **			
P769E	Mains Fail Reporting Delay to Dialler (0-999 sec) - Default = 600		Page 39
** Zone Alarm Reporting Delay **			
P770E	Zone Reporting Delay to Dialler (0-999 sec) - Default = 0		Page 39
Output On Delay Times			
P771E	Output #1 delay on timer - Default 0	Delay time values	Page 39
P772E	Output #2 delay on timer - Default 0	0 = no delay	Page 39
P773E	Output #3 delay on timer - Default 0	1 - 999 = 1 to 999 seconds	Page 39
P774E	Output #4 delay on timer - Default 0		Page 39
P775E	Output #4 delay on timer - Default 0		Page 39
P776E	Output #5 delay on timer - Default 0		Page 39
P777E	Output #6 delay on timer - Default 0		Page 39
P778E	Output #7 delay on timer - Default 0		Page 39
Supervised Radio Timer # 1			
P779E	Supervised Radio Timer # 1 (0-255 minutes) - Default = 240 Minutes		Page 39
Supervised Radio Timer # 2			
P780E	Supervised Radio Timer # 2 (0-255 minutes) - Default = 240 Minutes		Page 39
Output Pulse Times			
P781E	Output #1 pulse time - Default 1	Pulse time values	Page 39
P782E	Output #2 pulse time - Default 1	1-999 (min of 1)	Page 39
P783E	Output #3 pulse time - Default 1	1 to 999 in 1/10 secs	Page 39
P784E	Output #4 pulse time - Default 1	e.g. 1 = 0.1 second	Page 39
P785E	Output #5 pulse time - Default 1	10 = 1 second	Page 39
P786E	Output #6 pulse time - Default 1		Page 39
P787E	Output #7 pulse time - Default 1		Page 39
P788E	Output #8 pulse time - Default 1		Page 39
Radio Signal Failure Time			
P789E	Radio Signal Failure Timer (0-255 minutes) - Default = 20 Minutes		Page 40
Zone Inactivity Time			
P790E	Zone Inactivity Timer (0-255 hour) - Default = 120 Hours		Page 40
** System Events to Scenario Mapping **			
P791E	Duress Alarm mapped to scenario 1-4 default 1		Page 51
P792E	Keypad "Panic" (& buttons 1 & 3) mapped to scenario 1-4 default 1		Page 51
P793E	Keypad "Fire" (buttons 4 & 6) mapped to scenario 1-4 default 1		Page 51
P794E	Keypad "Medical" (buttons 7 & 9) mapped to scenario 1-4 default 1		Page 51
P795E	Battery low mapped to scenario 1-4 default 1		Page 51
P796E	Mains fail mapped to scenario 1-4 default 1		Page 51
P797E	Phone line restore mapped to scenario 1-4 default 1		Page 51
P798E	Radio PIR battery low mapped to scenario 1-4 default 1		Page 51
P799E	Radio-key battery low mapped to scenario 1-4 default 1		Page 51
P800E	Keypad tamper mapped to scenario 1-4 default 1		Page 51
P801E	Cabinet tamper mapped to scenario 1-4 default 1		Page 51

P802E	Zone tamper mapped to scenario 1-4 default 1	Page 51
P803E	"RF Interference" mapped to scenario 1-4 default 1	Page 51
P804E	Radio panic mapped to scenario 1-4 default 1	Page 51
P805E	Supervised Radio Timeout mapped to scenario 1-4 default 1	Page 51
P806E	Zone Inactivity Timeout mapped to scenario 1-4 default 1	Page 51
P807E	Test calls mapped to scenario 1-4 default 1	Page 51

Partition "D" Primary Output Options

P811E	Area "D" primary options for output #1- Default 1	P811E-P818E OPTIONS	1 = Standard zone activation's	Page 23
P812E	Area "D" primary options for output #2 - Default 1 & 2		2 = Stay Mode activation's	Page 23
P813E	Area "D" primary options for output #3 - Default 1		3 = Radio key chirps	Page 23
P814E	Area "D" primary options for output #4 - Default 1		4 = All zones sealed (ready)	Page 23
P815E	Area "D" primary options for output #5 - Default 1		5 = 2 sec pulse on arm/disarm	Page 23
P816E	Area "D" primary options for output #6 - Default 1		6 = Day zone activation's	Page 23
P817E	Area "D" primary options for output #7 - Default 1		7 = Spare	Page 23
P818E	Area "D" primary options for output #8 - Default 1		8 = Spare	Page 23

Partition "D" Keypad Options

P819E	Arm key can disarm during exit - Default 1-8	Page 25
P820E	Stay key can disarm during Stay armed state - Default 1-8	Page 25

Partition "D" Secondary Output Options

P821E	Area "D" secondary options for output #1 - Default 0	P821E-P828E OPTIONS	1 = Any exclude	Page 24
P822E	Area "D" secondary options for output #2 - Default 0		2 = Auto exclude warn	Page 24
P823E	Area "D" secondary options for output #3 - Default 0		3 = Entry beeps	Page 24
P824E	Area "D" secondary options for output #4 - Default 0		4 = Exit Beeps	Page 24
P825E	Area "D" secondary options for output #5 - Default 0		5 = Control	Page 24
P826E	Area "D" secondary options for output #6 - Default 0		6 = Follow Set Arming	Page 24
P827E	Area "D" secondary options for output #7 - Default 0		7 = Follow Stay Arming	Page 24
P828E	Area "D" secondary options for output #8 - Default 0		8 = Follow Unset	Page 24

Programming Partition "D" Auto Arm/Disarm Time-zones

P829E	Time Zones used for Area "D" auto arming /disarming- Default 0 (see P832E)	Page 25
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Partition "D" Misc Options

P830E	Misc partition options 1 - Default 0	1 = Cannot Arm if not sealed	Page 25
		2 = "Arm" required before code	
		3 = "Stay" required before code	
		4 = Code required to arm	
		5 = Code required to "Bypass" zones	
		6 = Control disables day zones	
		7 = Repeat System PA messages	
		8 = Spare	
P831E	Misc partition options 2 - Default 3,4,6	1 = Key-switch enabled	Page 26
		2 = Use 2nd Key-switch	
		3 = Key-switch ARM's/STAY	
		4 = Pendant chirps when armed	
		5 = Pendant chirps when in Stay Mode	
		6 = 2 sec pulse at set	
		7 = 2 sec pulse at unset	
		8 = Cannot Arm if System Battery is Low	

P832E	PARTITION "D" TIME AND DELAY OPTIONS -Default 0	Page 27
	1 = set partition When Time Zone Ends	
	2 = Unset Partition When Time Zone Starts	
	3 = Disable Stay Mode Exit Delay	
	4 = Disable Set Mode Exit Delay	
	5 = Disable Stay Mode Entry Delay	
	6 = Disable Set Mode Entry Delay	
	7 = Use special Stay Mode entry timer	
	8 = Report Stay Mode alarms & Bypasses via dialler	

Enabling Local PA Message Options

P833E 1 = Enable PA Disarm msg -Default = 0 Page 27
 2 = Use Canned PA Disarm msg
 3 = Repeat PA Disarm msg
 4 = Spare
 5 = Enable PA Armed msg
 6 = Use Canned PA Armed msg
 7 = Repeat PA Armed msg
 8 = Spare

P834E 1 = Enable PA Stay Armed msg -Default = 0 Page 28
 2 = Use Canned PA Stay Armed msg
 3 = Repeat Stay PA Armed msg
 4 = Spare
 5 = Spare
 6 = Spare
 7 = Spare
 8 = Spare

**** Dialler Reporting Options for partition "D" ****

P835E Area D reporting options -Default = 1,2 Page 29
 1 = Send arm / disarm 5 = Send arm when exit delay expires (LED On)
 2 = Send Stay Mode arm/disarm 6 = Send all zone restores at disarm only
 3 = Send disarm only after activation's 7 = Spare
 4 = Send Stay Mode disarm only after alarm 8 = Spare

**** Area "D" Contact ID Account Code ****

P836E Account number for Area "D" - default 0000 Page 29

****Area "D" Arm/Disarm Reporting Scenario ****

P837E Area D Arm/Disarm reports mapped to scenario 1-4 default 1 Page 29

****Area "D" Child Disarm Reporting Scenario ****

P838E Area D Child Disarm Reporting scenario 1-4 default 1 Page 30

Delays and Timers

P841E Area "A" exit delay - Default = 60 sec (0-999 sec) Page 40
P842E Area "B" exit delay - Default = 60 sec Page 40
P843E Area "C" exit delay - Default = 60 sec Page 40
P844E Area "D" exit delay - Default = 60 sec Page 40

P845E Area "A" Special Stay Mode entry delay - Default 20 sec (0-9999 sec) Page 40
P846E Area "B" Special Stay Mode entry delay - Default 20 sec Page 40
P847E Area "C" Special Stay Mode entry delay - Default 20 sec Page 40
P848E Area "D" Special Stay Mode entry delay - Default 20 sec Page 40

P849E Two trigger time period - Default 60 sec (0-999 sec) Page 40

Day zone to keypad and output timing

P851E Area "A" day zone keypad buzzer duration - Default 2 sec (0-999 sec) Page 40
P852E Area "B" day zone keypad buzzer duration - Default 2 sec Page 40
P853E Area "C" day zone keypad buzzer duration - Default 2 sec Page 40
P854E Area "D" day zone keypad buzzer duration - Default 2 sec Page 40

P855E Area "A" day zone to Output duration - Default 2 sec (0-999 sec) Page 40
P856E Area "B" day zone to Output duration - Default 2 sec Page 40
P857E Area "C" day zone to Output duration - Default 2 sec Page 40
P858E Area "D" day zone to Output duration - Default 2 sec Page 40

P860E Volume Control (works in parallel with keypad "Control" "6" & "9") Page 44

****Arm/Disarm Command Control Status Message Addressing ****

P861E Area "A" Arm Message number for Local & Remote Command Control - Default 0 Page 44
P862E Area "B" Arm Message number for Local & Remote Command Control - Default 0 Page 44
P863E Area "C" Arm Message number for Local & Remote Command Control - Default 0 Page 44
P864E Area "D" Arm Message number for Local & Remote Command Control - Default 0 Page 44
P865E Area "A" Disarm Message number for Local & Remote Command Control - Default 0 Page 44

P866E	Area "B" Disarm Message number for Local & Remote Command Control - Default 0	Page 44
P867E	Area "C" Disarm Message number for Local & Remote Command Control - Default 0	Page 44
P868E	Area "D" Disarm Message number for Local & Remote Command Control - Default 0	Page 44
P869E	Area "A" Stay Mode Armed message for Local & Remote Command Control - Default 0	Page 45
P870E	Area "B" Stay Mode Armed message for Local & Remote Command Control - Default 0	Page 45
P871E	Area "C" Stay Mode Armed message for Local & Remote Command Control - Default 0	Page 45
P872E	Area "D" Stay Mode Armed message for Local & Remote Command Control - Default 0	Page 45

Pendant Panic Alarm Voice Message Mapping *

P881E	Voice message number mapped to pendant panic alarm - default 1	Page 46
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****Keypad Panic Alarm Voice Message Mapping ****

P882E	Voice message number mapped to panic alarm - default 1	Page 46
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****Keypad Fire Alarm Voice Message Mapping ****

P883E	Voice message number mapped to Fire (4&6) alarm - default 1	Page 46
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****Keypad Medical Alarm Voice Message Mapping ****

P884E	Voice message number mapped to Medical (7&9) alarm - default 1	Page 46
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****Mains & Battery Voice Message Mapping ****

P885E	Voice message number mapped to Battery Low - default 0	Page 46
P886E	Voice message number mapped to Mains Failure - default 0	Page 46

****Radio Battery Low Alarm Voice Message Mapping ****

P887E	Voice message number mapped to Radio Battery Low alarm - default 1	Page 46
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****Radio Supervise Failure Voice Message Mapping ****

P888E	Voice message number mapped to Radio Supervise Failure alarm - default 1	Page 46
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****Tamper Alarm Voice Message Mapping ****

P889E	Voice message number mapped to Tamper alarm - default 1	Page 46
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Programming Customised Speech Messages

P890E	1-20E Program Customised messages 1-20	Page 44
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****Output ON Command Control Status Message Addressing ****

P891E	Output #1 ON status message for Local or Remote Command Control - Default 0	Page 45
P892E	Output #2 ON status message for Local or Remote Command Control - Default 0	Page 45
P893E	Output #3 ON status message for Local or Remote Command Control - Default 0	Page 45
P894E	Output #4 ON status message for Local or Remote Command Control - Default 0	Page 45
P895E	Output #5 ON status message for Local or Remote Command Control - Default 0	Page 45
P896E	Output #6 ON status message for Local or Remote Command Control - Default 0	Page 45
P897E	Output #7 ON status message for Local or Remote Command Control - Default 0	Page 45
P898E	Output #8 ON status message for Local or Remote Command Control - Default 0	Page 45

Playing Customised Speech Messages

P900E	1-20E Playback Customised messages 1-20	Page 44
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****Output OFF Command Control Status Message Addressing ****

P901E	Output #1 OFF status message for Local or Remote Command Control - Default 0	Page 45
P902E	Output #2 OFF status message for Local or Remote Command Control - Default 0	Page 45
P903E	Output #3 OFF status message for Local or Remote Command Control - Default 0	Page 45
P904E	Output #4 OFF status message for Local or Remote Command Control - Default 0	Page 45
P905E	Output #5 OFF status message for Local or Remote Command Control - Default 0	Page 45
P906E	Output #6 OFF status message for Local or Remote Command Control - Default 0	Page 45
P907E	Output #7 OFF status message for Local or Remote Command Control - Default 0	Page 45
P908E	Output #8 OFF status message for Local or Remote Command Control - Default 0	Page 45

Miscellaneous System Alarm PA Message Programming

P912E	Pendant Panic PA -Default = 0	P912E-P920E Options	Page 46
P913E	Keypad Panic PA -Default = 0	1 = Enable PA msg	
P914E	Keypad Fire PA -Default = 0	2 = Use Canned PA msg	
P915E	Keypad Medical PA -Default = 0	3 = Repeat PA msg	
P916E	Battery Low PA -Default = 0		
P917E	Mains Fail PA -Default = 0		
P918E	Radio Battery Low PA -Default = 0	Addresses P918-P920 can repeat the message if the alarm is still present when an area is armed or disarmed (see addresses P530,P630,P730,P830 option 7)	
P919E	Radio supervise Alarm PA -Default = 0		

P920E Tamper Alarm PA -Default = 0

P921E Time Zone 1 day of the week Default 0
P922E Time Zone 1 start time - Default 0
P923E Time Zone 1 finish time - Default 0
P924E Time Zone 2 day of the week - Default 0
P925E Time Zone 2 start time - Default 0
P926E Time Zone 2 finish time - Default 0
P927E Time Zone 3 day of the week - Default 0
P928E Time Zone 3 start time - Default 0
P929E Time Zone 3 finish time - Default 0
P930E Time Zone 4 day of the week - Default 0
P931E Time Zone 4 start time - Default 0
P932E Time Zone 4 finish time - Default 0
P933E Time Zone 5 day of the week - Default 0
P934E Time Zone 5 start time - Default 0
P935E Time Zone 5 finish time - Default 0
P936E Time Zone 6 day of the week - Default 0
P937E Time Zone 6 start time - Default 0
P938E Time Zone 6 finish time - Default 0
P939E Time Zone 7 day of the week - Default 0
P940E Time Zone 7 start time - Default 0
P941E Time Zone 7 finish time - Default 0
P942E Time Zone 8 day of the week - Default 0
P943E Time Zone 8 start time - Default 0
P944E Time Zone 8 finish time - Default 0

P950E Display keyboard address
P951E Display partitions assigned to this keypad (1=A, 2=B, 3=C, 4=D)
P952E Display software version

P953E Active Time-Zones

P954E Start event printing

P955E Answer incoming call (user initiated)

P956E Toggle walk-test mode ON/OFF

P957E Temporary Output Disable mode - Outputs 1-8

P958E Write to EE² board on serial port.
P959E Copy from EE² board on serial port to panel.

P960E Reset user codes
P961E Reset communicator parameters
P962E Reset radio parameters
P963E Reset PA & Voice Parameters
P964E Reset All other Parameters
P965E Reset Everything back to factory Default

P966E Clear all output parameters (outputs 1 - 8)

P967E Clear the 255 event Memory Buffer

Defining Time Zones

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DAYS 1 - 7	Page 41
1 = Sunday	Page 41
2 = Monday	Page 41
3 = Tuesday	Page 41
4 = Wednesday	Page 41
5 = Thursday	Page 41
6 = Friday	Page 41
7 = Saturday	Page 41
8 = Invert time zone	Page 41
Times = 0000-2359	Page 41

Keypad Dynamic Data

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Active Time Zones

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Printing Events

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** Manually Answering an In-coming Call **

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Walk Test Mode

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Temporary Output Disable Mode

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EE² Upload/Download

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Reset to Defaults

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Clear Output Parameters

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Clear Memory Events

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****Automatic Test 4+2 Reporting Code****

P970E 4+2 Automatic Test Code (Default=84)

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****Zone Alarm 4+2 Reporting Code****

P971E 4+2 Alarm Code for Zone 1 (Default=01)

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P972E 4+2 Alarm Code for Zone 2 (Default=02)

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P973E 4+2 Alarm Code for Zone 3 (Default=03)

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P974E 4+2 Alarm Code for Zone 4 (Default=04)

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P975E 4+2 Alarm Code for Zone 5 (Default=05)

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DIALLER INSTALLATION

The dialler facility of the Elite 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.

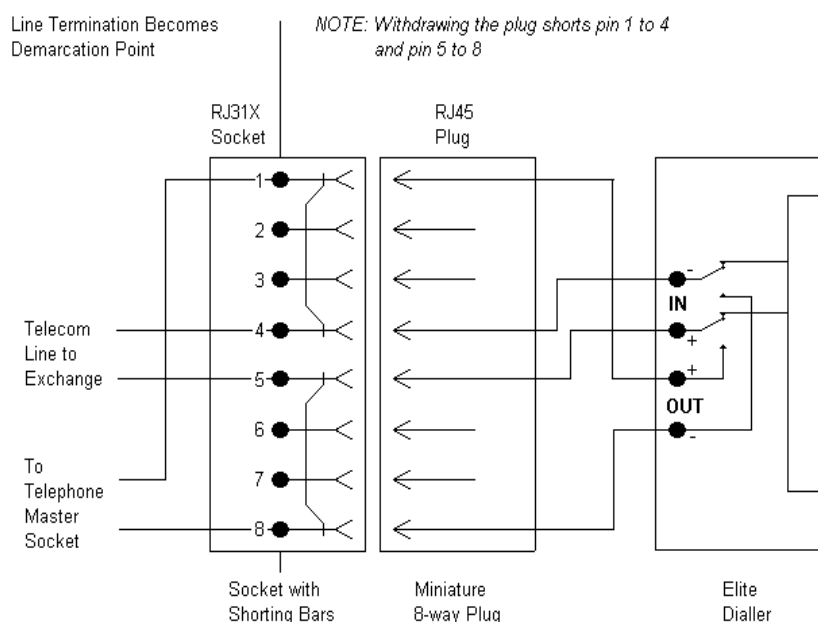
In accordance with the statutory requirements of the Telepermit standards we must bring the following points to your attention;

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 Elite 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 Elite 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

PW64 CONTACT ID CODE SUMMARY

In addition to the programmable Contact ID Event Code assignments defined at P747E - P749E and P481E-P500E 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. This extensions list is for your reference only and can not be changed in programming.

Event	Code	Extension	Comment
Cabinet Tamper	137	000	Panel Tamper
Radio Zone Tamper	137	001 to 060	Zones 1-60
Zone Tamper - Input 61 (open circuit)	137	062	Hardwired Zone Tamper on I/P 61
Zone Tamper - Input 62 (open circuit)	137	064	Hardwired Zone Tamper on I/P 62
Zone Tamper - Input 61 (short circuit)	137	061	Hardwired Zone Tamper on I/P 61
Zone Tamper - Input 62 (short circuit)	137	062	Hardwired Zone Tamper on I/P 62
**Keypad Tamper (Wrong Code)	137	101	At keypad #1
	through to	108	At keypad #8
**Keypad Panic	120	001	At keypad #1
	through to	008	At keypad #8
**Keypad Medical	100	001	At keypad #1
	through to	008	At keypad #8
**Keypad Fire	110	001	At keypad #1
	through to	008	At keypad #8
**Duress Alarm	121	001	At keypad #1
	through to	008	At keypad #8
Arm by "ARM key (shortcut)	408	000	User number zero
Arm by user code	401	001	User #1
	through to	100	User #100
Arm by Radio-key	407	021	Radio User #21
	through to	100	Radio User #100
Arm by Time Zone	403	000	Time Zone arming
Arm by Key-switch	409	001	Key-switch Arm/Disarm KS#1
Arm by Key-switch	409	002	Key-switch Arm/Disarm KS#2
Arm by Up/Download	400	000	
Arm by DTMF remote control	400	000	
Radio-key Panic	120	121	Radio User #21
	through to	200	Radio User #100
Radio PIR / Reed Switch Activation	130	001	Zone 1
(& Hardwired zones 61-64)	through to	064	Zone 64
System Battery Low	302	000	Control Panel Battery low
Mains Fail	301	000	230v mains to control panel lost
12V Supply Fail	312	000	12V Fuse F1 or F2 blown
Radio PIR / Reed Switch Battery Low	384	001	Zone 1
	through to	060	Zone 60
Radio-key Battery Low	384	121	Radio-key #21
	through to	200	Radio-key #100
Radio Zone Supervised Failure	381	001	Radio Zone #1
	through to	060	Radio Zone #60
Zone Inactivity Alarm	391	001	Zone #1
	through to	060	Zone #60
TEST Calls	602	000	24 hour test
Zone Bypasses	570	001	Bypass Zone 1
	through to	064	Bypass Zone 64
Phone Line Failure	351	000	Reported when line is restored
Stay Mode (part set)	441	000	Arm by "Stay" Button
		001	User 1
	through to	100	User 100
Stay Mode by Key-switch (part set)	442	001	"Stay" mode Arm by K/S #1
		002	"Stay" mode Arm by K/S #2
RF Interference Alarm	344	000	RF signal blocked for >30 seconds

** - Note: On some versions of the panel the keypad number is not sent (ie Extension ="000") to satisfy some monitoring companies

Software Changes made at Version V1.09

1– Option 8 at address P606E (Listen-in on all the time) has changed to be an option that turns on output 4 for the duration programmed at the pulse timer (P784E). If Option 8 at address P606E is on it also stops the dialler from hanging up a Voice Mode alarm (following kiss-off) while output 4 is On.