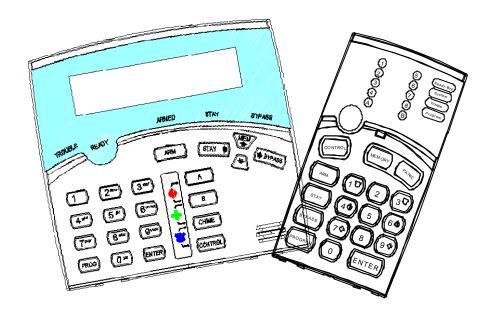


## PowerWave - 8

### 8 Zone Control Panel Communicator

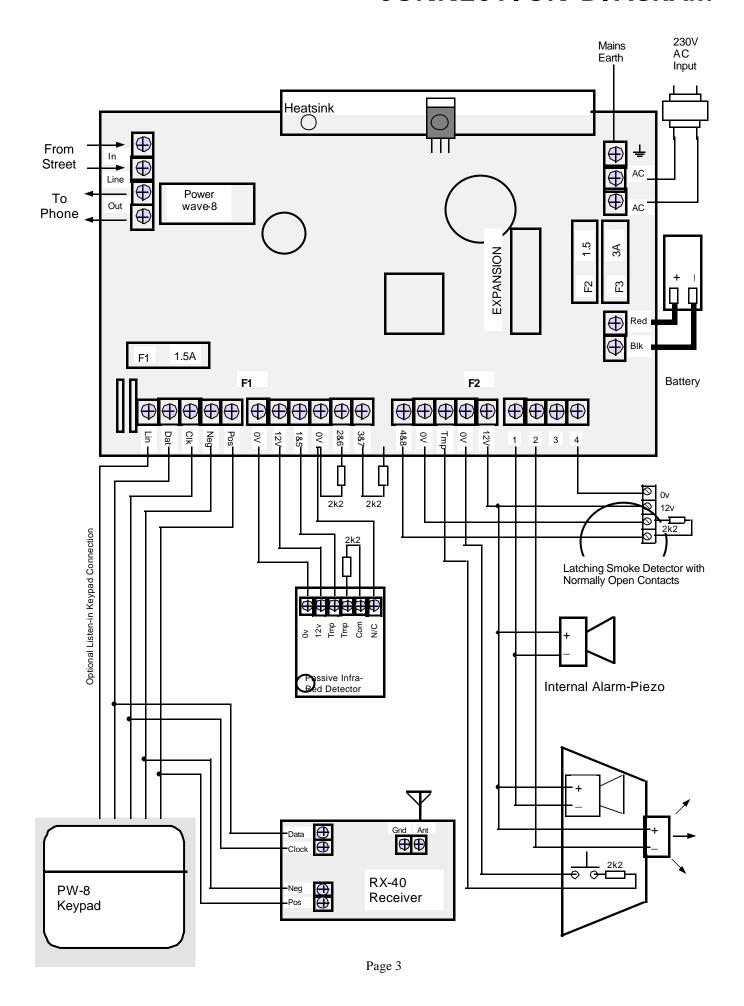


# Installation and Programming Guide

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### **CONNECTION DIAGRAM**



### **INPUTS**

The PW-8 has 5 separate programmable monitored analogue inputs,

- 4 x Programmable, multi-state detection inputs
  - 1 x Programmable tamper input ( with optional Key-switch functions)

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

ZONE INPUTS - Each of the 4 zone inputs can be assigned one of the following configuration options

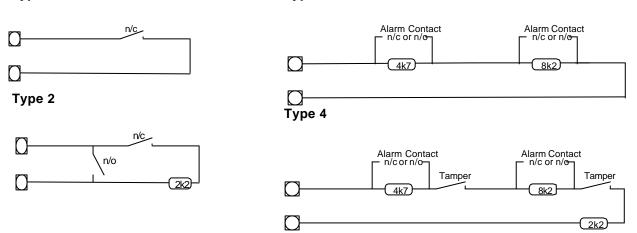
- Type 1 4 ZONE Short circuit input No-End-of-Line (EOL).
- Type 2 4 ZONE End-of-Line 2k2 (EOL) with no tamper.
- Type 3 8 ZONE End-of-Line (EOL) No Tamper.
- Type 4 8 ZONE End-of-Line (EOL) With open & short circuit Tamper.

The following table shows end-of-line resistor configurations.

The reference to LEDS in bold below relate to the program option setting at address P130E.

Zone Type	Low Zone Resistor	Hi Zone Resistor	Tamper End-of-line
Type 1 (4 Zone) LEDS 1-4 off, 5-8 off	N/A (Short circuit)	N/A	N/A
Type 2 (4 Zone) <b>LEDS 1-4 on, 5-8 off</b>	2k2	-	-
Type 3 (8 Zone) <b>LEDS 1-4 off, 5-8 on</b>	4k7	8k2	N/A
Type 4 (8 zone) <b>LEDS 1-4 on, 5-8 on</b>	4k7	8k2	2k2

Type 1 Type 3



LED at Addr. P130E	Zone Relationship	LED at Addr. P130E	Zone Relationship
LED #1	Zone 1 Short or EOL	LED #5	Zone 5 Enabled
LED #2	Zone 2 Short or EOL	LED #6	Zone 6 Enabled
LED #3	Zone 3 Short or EOL	LED #7	Zone 7 Enabled
LED #4	Zone 4 Short or EOL	LED #8	Zone 8 Enabled

**TAMPER** - A 24Hr tamper circuit is available for monitoring tamper status of detectors, junction boxes, cabinets and satellite sirens etc. This Tamper circuit is programmable with 2 options (P170E1E) either normally closed loop or 2k2 EOL supervision( the default is normally closed loop). The tamper circuit must be terminated with an end-of-line resistor if 2k2 EOL supervision is selected. The activation events and outputs for this tamper circuit are mapped in the same manner as for detection zones 1-8. Using Dual-End-of-Line resistors (Refer to zones on Page 4) the Tamper input can also provided two key-switches. The Low key-switch (4k7 resistor) operates Partition A while the High key-switch (8k2 resistor) operates partition B. In this configuration the 2k2 resistor must still be installed to seal the system Tamper.

In addition to the Analogue monitoring inputs, you will find the following system inputs on your PW-8 control PCB;

**AC** - Connect the two low voltage wires (no polarity) from the transformer to the terminals marked AC on the PW-8 PCB. The PW-8 includes a mains transformer rated at 1.4 amps at 17 volts.

**EARTH** - Always connect the mains earth to the appropriate terminal on the mains terminal block in the control box cabinet. Also connect a lead from this earth point to the terminal marked with the Earth symbol (next to AC terminals) on the PW-8 PCB.

**BATTERY** - Connect a sealed lead acid rechargeable 12V d.c. battery to the red and black battery leads. Be careful to observe correct polarity as damage may occur from incorrect connection. The minimum recommended battery capacity is 7 amp hours. Battery charge current at these terminals is limited to 350mA maximum. The battery connection is fuse protected by fuse F3 (3A). The panel performs a dynamic load test on the battery every 5 seconds and if it fails the test at any time it will flash the system LED (refer to the "View Memory" chart on page 9 for more details).

**LINE IN** - This pair of terminals is used to connect the PW-8 to the incoming telephone line from the street. The communicator uses this line for reporting.

**LINE OUT** - This pair of terminals is used to connect telephones and other communication equipment to the incoming phone line via the PW-8 controller. The telephone line is passed through the PW-8 controller to ensure that the line is available to the controller when it is required.

### **OUTPUTS**

**12 VOLT OUTPUTS** - There are two 12 volt dc outputs available on the PW-8 PCB. These 12 volt outputs are both regulated and fuse protected. These outputs are marked 12v and 0v, and are supplied by fuse F2. A maximum total load of 1 amp may be drawn from these terminals.

**OUTPUTS 1 & 2**- These fully programmable, high current, open collector (high-going-low) type FET outputs are capable of switching up to **1A** @ **12V d.c.** These 2 outputs are normally set as switched outputs, providing power for 12v sirens or piezos. If required, these outputs can be programmed to be siren outputs designed to drive an 8 ohm 10 watt horn speaker per output. Also if a horn speaker is connected to **Output #1** you may select (Refer to P190E program address) the listen-in feature to this output as well so that the dialing sequence can be heard at the speaker.

**OUTPUTS 3 & 4-** These are low current, open collector (high-going-low) type outputs capable of switching no more than **100mA**. Like Outputs 1 & 2 they are fully programmable.

NOTE: - Connecting devices which draw current in excess of 100mA to outputs 3 & 4 will cause permanent damage to the Pw-8 controller.

**KEYPAD PORT** - The terminals marked *POS*, *NEG*, *CLOCK*, & *DATA* make up the communications port which the keypads and other intelligent field devices use to talk to the PW-8 controller. The terminals are connected to corresponding terminals on the remote devices. The keypad 12v output I(*POS*, *NEG*) is also protected by fuse F1.

**EXPANSION PORT** - The expansion port is for the connection of the Arrowhead RS232 serial board, 90 second voice board or EPROM data transfer board (DTU). The serial board allows for the direct connection of a PC running the Upload/Download software. The 90 second voice board allows voice messages to be programmed for monitoring purposes and remote control via a telephone.

### TELECOM INTERFACE

The communicator facility of this PW-8 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 Ademco 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 dialer.

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 Alert control panel require relocation the Telecom connection must be disconnected before the power is disconnected. Similarly when reconnecting the dialer, it is necessary to power up the Alert before connecting the dialer to the Telecom Network.

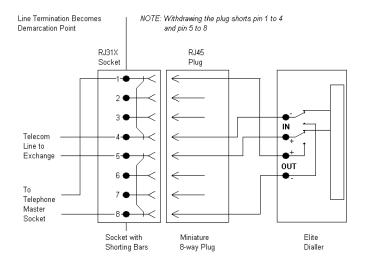
Connection to the Telecom network should be made in accordance with Access Standards Newsletter #65 dated November 1993. This connection is to be readily accessible to allow disconnection in the event of a fault. An example of this connection method is shown below.

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.

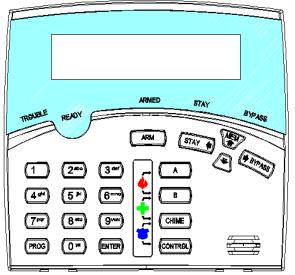
The transmit level from this device is set at a fixed level and because of this there may be circumstances where this device does not give its optimum performance. Before reporting such occurrences as faults, please check the line with a standard Telepermitted telephone, and do not report a fault unless the telephone performance is impaired.

This automatic dialing equipment shall not be set up to make calls to the Telecom "111" Emergency Service



### PW-8 KEYPAD OPTIONS

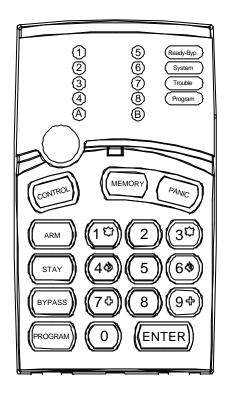
#### LCD-KEYPAD



- Multiple language versions
- LED indicators ... READY , ARMED, TROUBLE....
  - 3 KeyPad activated alarms .... FIER,MEDICAL, PANIC
- ✓ Audible feedback of correct key entries, pre-alert ,
- ✓ system trouble✓ Backlit keypad and display with boost control
  - keypad tone control
    - Large 32-character LCD display
      - system menus and prompts
      - trouble indications
      - time &date clock
      - viewable event buffer
      - all system parameters programming
      - customizable zone labeling

#### LED-KEYPAD

- ✓ LED indicators ... READY , ARMED, TROUBLE....
- √ 4 KeyPad activated alarms .... FIER,MEDICAL, PANIC
- ✓ Audible feedback of correct key entries, pre-alert ,
- ✓ system trouble
- ✓ Backlit keypad
- ✓ Viewable event buffer
- ✓ All system parameters programmable



### KEYPAD LED or LCD INSTALLATION

#### **INSTALLATION**

Remove the Well Mount Bracket (Back cover) by unscrewing the holding screw at the bottom side.

Screw the bracket to the wall using the mounting holes provided with the necessary number of screws.

Make sure the base is mounted right side up.

When fixing the bracket to the wall make sure the top of the screw heads will not touch or short out the underside of the PCB when the top half of the keypad is reinstalled.

Insert the wire through the wire access hole at centre of the base.

Connect the 4 or 5 wires to the 5 way terminal block on the back side of the keypad PCB, make sure to match the cables up with the terminals as marked on the control panel's keypad port.

The 5th wire is connected from the "LINE" terminal of the keypad to the "Lin" (Listen) terminal of the PW8 PCB keypad port.

Once the cables have been terminated and the required address allocated (see section below) replace the front half of the keypad onto the bracket by first engaging the clips at the top edge and then close the front down and screw it in at the bottom. Now stick the zone list provided to the inside of the keypad cover.

#### **WIRING**

The PW8 keypad connects to the PW 8 Controller via a 4 or 5 wire data security cable. A maximum of 8 LED keypads can be connected, each wired in parallel. A 5th wire may be used to provide a "Listen-in" facility at the keypad when an PW8 communicator panel is being used.

The maximum recommended cable using standard 0.2mm security cable is 50m. Cable runs exceeding this distance may require 0.5mm cable. Always use good quality cable. Some installations may require CAT5 data cable to ensure data integrity in noisy sites.

**User information:** 

**Keypad LCD** — Power Wave CR16M-LCD Keypad

**Users' Operating and Programming Guide** 

Keypad LED — Power Wave – 8

**Users' Operating and Programming Guide** 

When the PW-4 is displaying codes and address values in program mode it may be necessary to display the 9 and 0 digits. As there are no Zone indicators for 0 and 9 the "A" and "B" indicators are used.

i.e.. When displaying values in program mode

LIGHT\INDICATION	OFF	ON STEADY	FLASHING
READY\BYP	Zone Unsealed	All Zones Sealed	A Zone is bypassed
SYSTEM	Normal	System Alarm Reset	New System Alarm
TROUBLE	Normal	Trouble Alarm Active	New Trouble Alarm
PROGRAM	Run Mode	Client Program Mode	Installer Program Mode or Control Function Active
READY\BYP & PROGRAM	-	Bypass Mode Active (Zones can be Bypassed)	-
ZONES 1-4	Zone Secure	Zone Violated	Zone in Alarm
Armed A	Partition A Disarmed	Partition A Armed	Partition A STAY Mode
Armed B	Partition B Disarmed	Partition B Armed	Partition B STAY Mode

### **VIEW MEMORY MODE**

When viewing the memory event buffer at the keypad by pressing the "MEMORY" button, the first thing that will always be displayed is the "SYSTEM" LED. If the system led turns on but no other Zone LED's are on at the same time, this means that there are no current system alarms. If a zone LED or LED's are On then this indicates system alarms that have not yet cleared. The zone LED's 1-8 are pre-defined as to what system alarm they will display. These system alarm indications are shown in the table below. Following the display of current system alarms the panel will then sequence through the 127 historical memory events starting at the most recent event. The second table shows the alarm events that can be displayed in memory mode and what indicators are used to show them.

LED # 1	Battery Low	LED # 5	Radio Pendant Battery Low
LED # 2	Mains Failure	LED # 6	Supervised Detector Failure
LED # 3	Telephone Line Failure	LED # 7	Zone Inactivity Timeout
LED # 4	Radio Detector Battery Low	LED # 8	Dialer Kiss-off Failure

EVENT TYPE \ INDICATION ?	DEVICE	INDICATOR	STATUS
ACTIVATION	Zones 1-4	LED's 1-4	On Steady
BYPASS	Zones 1-4	READY/BYPL LED's 1-4	On Steady On Steady
DETECTOR TAMPER (SHORT CIRCUIT)	Zones 1-4	TROUBLE LED's 1-4	Flashing On Steady
DETECTOR TAMPER (OPEN CIRCUIT)	Zones 5-8	TROUBLE LED's 5-8	Flashing On Steady
CABINET TAMPER	Cabinet or Satellite Siren	TROUBLE	Flashing
LOW BATTERY	Controller Battery	SYSTEM LED 1	On Steady On Steady
MAINS FAILURE	Controller Mains Supply	SYSTEM LED 2	On Steady On Steady
RADIO ZONE LOW BATTERY	Radio PIR Zone 1-4	LED's 1-4	Flashing
PENDANT LOW BATTERY	Radio Key User 1-4	TROUBLE LED's 1-4	On Steady Flashing
PANIC BUTTON (or BUTTONS 1&3 PRESSED TOGETHER)	Keypad Panic	SYSTEM	Flashing
FIRE ALARM (BUTTONS 4&6 PRESSED TOGETHER)	Keypad Fire	SYSTEM AREA A	Flashing Flashing
MEDICAL ALARM (BUTTONS 7&9 PRESSED TOGETHER)	Keypad Medical	SYSTEM AREA B	Flashing Flashing
PENDANT PANIC	Radio Key User 1-4	SYSTEM LED 1-4	Flashing Flashing
ARMED A	Area A is Armed	AREA A	On Steady
ARMED B	Area B is Armed	AREA B	On Steady
STAY MODE A	Area A STAY Mode ON	AREA A	Flashing
STAY MODE B	Area B STAY Mode ON	AREA B	Flashing
DURESS ALARM	Duress Alarm	TROUBLE AREA A & B	On Steady Flashing
SUPERVISED RADIO ALARM	Supervised Radio Passive Infra-Red	SYSTEM TROUBLE LED's 1-4	On Steady Flashing Flashing
ZONE INACTIVITY ALARM	Zones 1-4	READY/EXCL TROUBLE LED's 1-4	On Steady On Steady On Steady
TELEPHONE LINE FAILURE	Phone Line Failure	TROUBLE LED 3	On Steady On Steady
	Daga 0		

### LED KEYPAD ADDRESS ASSIGNMENT

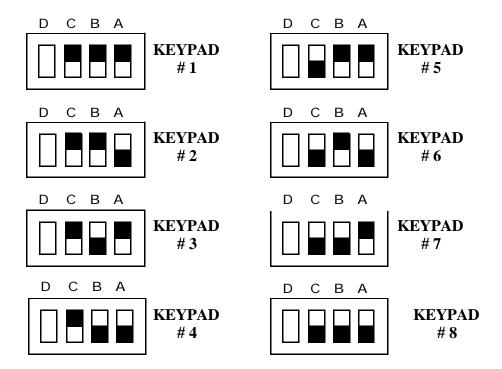
Each of the 8 possible LED keypads which are able to be connected to your PW8 panel must be addressed individually to avoid BUS conflicts when multiple users are operating different keypads simultaneously. As default, each keypad comes addressed as #1 (Switches A B and C at ON position).

To assign a keypad as address #2, change switch A to OFF position.

To assign a keypad as address #3, change switch B to OFF position.

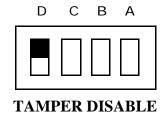
To assign a keypad as address # 4, change switches A and B to OFF position.

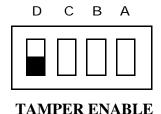
INDIVIDUAL KEYPAD ADDRESS SETTING



### KEYPAD TAMPER OPTION SETTING

Switch marked D used to Enable and Disable the Keypad Tamper option:





LED KEYPAD FUNCTIONS

The PW-8 LED Keypad consists of; an 18 button, backlit silicone rubber keypad, 14 LED ICON indicators and an internal piezo buzzer housed in a modern white plastic housing. The plastic housing has a hinged front lid to cover and protect the rubber buttons when not in use. All the electronics are contained on a single circuit board inside the housing.

#### **BUTTONS**

The 18 silicone rubber buttons are used for the following functions.

In normal operating mode the numeric keys are used for entering Access Codes. In Program Mode the numeric keys are used for entering options & new values.

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 the numeric key corresponding to the zone number you wish to be bypassed.

The **PROGRAM** Key is used to prefix option selections in the program modes e.g.<**PROGRAM**> 4 **<ENTER>** selects User Code 4. The **PROGRAM** key is also used prior to a Master Code to enter user program mode from normal operating mode.

The **ENTER** Key is used to enter access or program codes. It is normally used at the end of a button sequence.

The **CONTROL** button, if enabled, is used to isolate day zone audible alarms if temporarily not required and/or to directly control outputs if programmed.

#### ICON LED INDICATORS

The ICON LED indicators are used to display system conditions including Zone status, Battery state, Tamper etc. Please refer to the LED table on page 7 for a full explanation of the conditional displays.

### INSTALLING RX-40 RADIO RECEIVERS

The PW8 is fully high level compatible with the new RX-40 radio receivers. The addition of this receiver will add wireless capability to your system in the form or wireless PIR detectors, Wireless Radiokey transmitters and wireless reed switch transmitters. The RX receiver connects to the same communications port as the keypads and can be installed , either inside the cabinet, or if preferred, may be installed at a remote location. The RX-40 are available in 3 frequencies,303.875MHz ,433.92 MHz or 868 MHz.

The RX receivers requires 4 cores and can successfully be run in 0.2mm unscreened cable over a distance of up to 100metres. Like the keypads the RX-16 and RX-40 has 12v connections labeled *POS and NEG* which are wired to the 12v supply and CLK and DATA terminals for connection to the communications bus.

The green LED fitted to the RX receivers will indicate when the unit is in "Learn" mode (Flashing - see P601E) or when it is receiving an actual radio transmission (On Steady)

### PROGRAMMING YOUR PW-8

#### **HOW TO PROGRAM**

The programming sequence always follows this pattern:

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

3 short beeps if OK - 1 long beep if error

The LEDs will display current value or status

Enter the new value or option <New Value> - <ENTER>

3 short beeps if OK - 1 long beep if error

Throughout this manual you will see program instructions expressed as

P 10 E 5 E as an example.

\*\*\*In this example the <P> represents the PROGRAM key and <E> represents the ENTER key.

#### ACCESS TO PROGRAMMING ON POWER UP (INSTALLER MODE)

When power is applied to the controller for the first time, with the panel tamper input open, the panel will inhibit tamper alarms and ready the panel to enter INSTALLER PROGRAM Mode (unless the Installer Lock-out option P170E2E has previously been enabled). At this point you can go to any keypad which is connected to the panel and press "PROGRAM" "ENTER" which will automatically put that keypad into full Program mode, Program LED Flashing. (NOTE: Only one keypad can be in Program mode at any time)

#### ACCESS TO INSTALLER PROGRAM MODE FROM RUN MODE

Before you can enter Installer program mode, the panel must not be Armed or in STAY mode

Press <PROGRAM> - <Code 11 (Installer Code)> - <ENTER>

Program light will Flash

Note: Default Installer Code (Code 11) is 000000.

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

Note: Using LCD KP - Where there are multiple options at one address , Press <CONTROL>+<BYPASS> to prompt the options description. Press <MEM> to display all options at one address .

To switch back to address mode press <CONTROL>+<BYPASS> again .

#### ACCESS TO CLIENT PROGRAM MODE FROM RUN MODE

Press < PROGRAM > - < User Code > - < ENTER >

Program light On Steady

Note: Default User Code (P1) is 123.

You are now in Client Program Mode. Only User Codes 1-10 can be viewed or changed in this mode. Codes may be denied access to Client mode, allowed access to change their code only or allowed access to view & change all user codes.

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

This address allows you to reset the panel back to the factory defaults (Reset All defaults).

e.g. To reset All System defaults including User Codes (P620 E)

Press < PROGRAM > - 620 - < ENTER > 3 beeps - Program light flashing

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

P621-P625 allow selective defaults to be set ( refer to program summary at the back of the manual for more details).

#### **TO EXIT PROGRAM MODES**

To exit either program mode when you have finished programming:

Press < PROGRAM > - < ENTER > Program light goes out

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

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

### PROGRAMMING USER CODES

Note: Where there are multiple options at one address, options 0 & 9 have been reserved. Entering a 0 at the address will turn all options off whereas entering a 9 will turn all options on.

#### **USER CODES - (P1E to P10E) & (P11E)**

There are 11 codes available in the PW-8, 10 user codes and 1 install code. The user codes are located in addresses 1-10. As default, Code 1 has Master Code permissions and must be used to enter Client program mode. The Installer code is stored at address 11 and is used to access *Installer* Program mode.

Codes 1-10 may be varied in length from 1 to 6 digits. Code 11 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 1-10. (If there is already a code programmed at this address, it will be flashed back to you) Now enter the code then press the **ENTER** key.

e.g.. P 1 E 1234 E 3 beeps - program light on solid or flashing

In this example we have set Code 1 (Master Code) to be 1234.

e.g.. P 5 E 567 E

3 beeps - program light on solid or flashing

In this example we have set code 5 to be 567

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.

To clear or delete a code simply enter the Bypass button at the address where the old code is stored.

e.g.. P 3 E <BYPASS> E 3 beeps - Program light on solid or flashing User Code # 3 Erased

When flashing back codes and values Zone indicators 1-8 are used to indicate digits 1-8. The digit 0 is indicated by the "A" light and 9 is indicated by the "B" light.

User 5 Code 567

### **USER CODE OPTIONS**

#### USER CODE PERMISSIONS (Code Options) - P21E-P30E

Option 1 - Code has Area A permissions

Option 2 - Code has Area B permissions

Option 3 - Code can Arm Area

Option 4 - Code can Disarm Area

Option 5 - Code can turn STAY on

Option 6 - Code can turn STAY off

Option 7 - Code can Program their own code

Option 8 - Code can Program Other Codes

User 1 Options 1 2 3 4 5 6 7 8

NOTE: Options 3,4, 5 & 6 are used in conjunction with options 1 & 2 whereby options 3,4,5 & 6 determine the functions and options 1 & 2 determine the area of operation. If option 8 is on for the user, that user can change the telephone numbers and change the Real Time Clock.

#### **INSTALLER CODE - P11E**

This code is used to enter full Installer Program mode (Program LED flashing). The default installer code is 000000. To change this code enter your new installer code at the P11E address. The new code will be flashed back to you automatically. The Program code may vary from 3-6 digits in length.

Installer Code 000000

### PROGRAMMING OUTPUT OPTIONS

NOTE: With all output programming options we refer to outputs 1-8. Only outputs 1-2 are available as standard, with outputs 3-8 requiring the connection of the optional 4 way output expander unit that connects to the keypad buss (the output expander provides 4 change-over relay contacts).

#### **OUTPUT OPTIONS A- P31E-P38E**

This block of addresses (P31E - P38E) are used to map output modifiers to each of the 8 outputs available on the PW-8.

P31E 1E Invert output - Default off

2E Flash output - Default off

3E Single pulse to output - Default off

4E Lockout output once reset - Default off (P34E =ON)

**5E** Siren Driver to output - Default **off** 

**6E** "Control" button & DTMF Remote Control can operate output - Default **off** 

**7E** Output flashes on a 24 hour zone alarm - Default **off** 

**8E** Day zones (CHIME) linked to pulse timer - Default **off** 

Option 1 **Invert Output** - This option is used to invert the normal state of the output. The PW-8 uses open collector type transistor switches and the default state of all outputs is off or high. When in alarm the transistor switch is turned on and the output is switched low. The invert option reverses this function.

Option 2 Flash Output - This option causes the output to turn on and off at a rate set by the pulse timer for this output (P221E -P228E) 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 at the output during an alarm (the pulse time is the value programmed at the output pulse timer address, P221E-P228E).

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

Option 5 **Siren Driver to Output -** This option causes the output to be a modulated output designed to drive 8 ohm 10 watt horn speakers directly. Outputs 1 & 2 can have the siren driver feature. A different tone is generated at output 1 to that at outputs 2.

NOTE: DO NOT CONNECT A HORN SPEAKER TO OUTPUT 1 or 2 WITHOUT FIRST TURNING

Options A O/P 1

. . . . . . . .

#### THIS OPTION ON OTHERWISE DAMAGE MAY OCCUR TO THE OUTPUT CONCERNED.

- Option 6 "Control" button & DTMF Remote Control can operate output The "Control' button on the PW-8 keypad can be used to turn outputs on or off. Also, if the optional 90 second voice board is fitted, the outputs can be turned On or Off remotely via a Touchtone (DTMF) phone. For this to happen this option must be turned on for the output/s concerned. To turn an output on locally at the keypad the operator simply presses the "Control' button at which time the "System" & "Program" LED's will illuminate to indicate that the Control mode is active. If any controllable outputs are currently on, the relevant green led (LEDS 1-8) will be on. The operator can now press a button relating to the output/s they wish to control e.g. pressing the "1" button will turn output 1 on or off, The "2" button for output 2 etc. When an output state is changed the LED will indicate the change of state. When finished the operator then presses the "Enter" button to cancel the Control mode and return to normal. To operate the output/s via a telephone please refer to the instructions supplied with the voice board.
- Option 7 Flash 24 hour alarm If a 24 hour zone activates the alarm this option will cause the output to flash at a rate equal to the value set for the pulse timer (P221E-P228E).
- Option 8 Day Zones (CHIME) Linked to Pulse Timer Day Zones programmed to this output will pulse at the pulse timer rate (P221E-P228E) for the duration of the day zone to output timer (P211E-P218E)

**P32E - P38E** As per P31E above for Outputs 2-8

### PROGRAMMING OUTPUT OPTIONS cont.

#### **OUTPUT OPTIONS B-P41E-P48E**

In this block of addresses P41E relates to output #1, P42E relates to output #2 etc

P41E 1E Pendant Panic to Output - Default on (P43E-48E = OFF)

2E Keypad Panic to Output - Default on (P43E-48E = OFF)

3E Keypad Fire to Output - Default off4E Keypad Medical to Output - Default off

5E Cabinet Tamper to Output- Defaulton (P43E-48E = OFF)

Duress Alarm to Output - Default off
 Mains Fail to Output - Default off
 Battery Low to Output - Default off

Options B O/P 1 1 2 - - 5 - - -

- Option 1 **Pendant Panic to Output** This option is used to map the operation of the Radio Pendant panic button to an output i.e. when the Radio Panic button is pressed any output with this option enabled will turn on.
- Option 2 **Keypad Panic to Output** This option is used to map the Keypad Panic Button, or the 2 button Panic function to an output. Keypad Panics are generated when a user presses the Panic Button or buttons **1 & 3 Simultaneously** at the keypad.
- Option 3 **Keypad Fire to Output** This option is used to map the manual Keypad Fire alarm function to an output. The keypad Fire alarm is generated when a user presses buttons **4 & 6 Simultaneously** at the keypad.
- Option 4 **Keypad Medical to Output** This option is used to map the manual Keypad Medical alarm function to an output. The keypad Medical alarm is generated when a user presses buttons **7 & 9 Simultaneously** at the keypad.
- Option 5 **Cabinet Tamper 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 STAY the panel cabinet and satellite tamper switches.

- Option 6 **Duress Alarm to Output** This option will map the Duress Function to an output. Programming of the Duress Digit is at address P230E.
- Option 7 **Mails Fail To Output** A mains failure will be indicated at this output when option 7 is enabled at this address. The Alarm Reset Timer must be set to "0" when this option is used.
- Option 8 **Low Battery** A battery Low condition will be indicated at this output when option 8 is enabled at this address. The alarm reset timer must be set to "0" when this option is used.

P42E - P48E As per P41E above for Outputs 2-8

### MAPPING ZONE ALARMS TO OUTPUTS

#### **ZONE ALARM MAPPING TO OUTPUTS - P51E - P58E**

When a zone is in alarm (during the ARMED state only) this block of addresses allows individual zones to be mapped to selected outputs. The default setting is that zones 1-8 will turn on all outputs 1-8 when in alarm.

P51E	Zone Alarms to Output #1. Options=Zones 1-8 (Default=1-8)
P52E	Zone Alarms to Output #2. Options=Zones 1-8 (Default=1-8)
P53E	Zone Alarms to Output #3. Options=Zones 1-8 (Default= 0 )
P54E	Zone Alarms to Output #4. Options=Zones 1-8 (Default= 0 )
P55E	Zone Alarms to Output #5. Options=Zones 1-8 (Default= 0 )
P56E	Zone Alarms to Output #6. Options=Zones 1-8 (Default= 0 )
P57E	Zone Alarms to Output #7. Options=Zones 1-8 (Default= 0 )
P58E	Zone Alarms to Output #8. Options=Zones 1-8 (Default= 0)

Alarm To O/P 1 1 2 3 4 5 6 7 8

### MAPPING STAY ZONE ALARMS TO OUTPUTS

#### STAY ZONE ALARM MAPPING TO OUTPUTS - P61E - P68E

When a Stay Mode zone is in alarm (during the STAY state only) this block of addresses allows individual zones to be mapped to selected outputs. The default setting is that zones 1-8 will turn on output 2 only when a STAY mode alarm occurs.

Stay Alarm O/P 1 1 2 3 4 5 6 7 8

```
Stay Mode Zone Alarms to Output #1. Options=Zones 1-8 (Default=1-8)
P61E
            Stay Mode Zone Alarms to Output #2. Options=Zones 1-8 (Default=1-8)
P62E
            Stay Mode Zone Alarms to Output #3. Options=Zones 1-8 (Default=None)
P63E
            Stay Mode Zone Alarms to Output #4. Options=Zones 1-8 (Default=None)
P64E
            Stay Mode Zone Alarms to Output #5. Options=Zones 1-8 (Default=None)
P65E
            Stay Mode Zone Alarms to Output #6. Options=Zones 1-8 (Default=None)
P66E
            Stay Mode Zone Alarms to Output #7. Options=Zones 1-8 (Default=None)
P67E
            Stay Mode Zone Alarms to Output #8. Options=Zones 1-8 (Default=None)
P68E
```

### MAPPING 24 HOUR ZONE ALARMS TO OUTPUT

#### 24 HOUR ZONE ALARM MAPPING TO OUTPUTS - P71E - P78E

When a 24 Hour zone is in alarm this block of addresses allows individual zones to be mapped to selected outputs. The default setting is that zones 1-8 will turn on output 2 only when a 24 Hour alarm occurs.

24 Alarm O/P 1 1 2 3 4 5 6 7 8

```
P71E 24 Hour Zone Alarms to Output #1. Options=Zones 1-8 (Default=1-8)
P72E 24 Hour Zone Alarms to Output #2. Options=Zones 1-8 (Default=1-8)
P73E 24 Hour Zone Alarms to Output #3. Options=Zones 1-8 (Default=None)
P74E 24 Hour Zone Alarms to Output #4. Options=Zones 1-8 (Default=None)
P75E 24 Hour Zone Alarms to Output #5. Options=Zones 1-8 (Default=None)
P76E 24 Hour Zone Alarms to Output #6. Options=Zones 1-8 (Default=None)
```

P77E 24 Hour Zone Alarms to Output #7. Options=Zones 1-8 (Default=None)
P78E 24 Hour Zone Alarms to Output #8. Options=Zones 1-8 (Default=None)

### MAPPING DAY ZONES TO OUTPUTS

#### DAY ZONES TO OUTPUTS - P81E - P88E

When a Day zone is unsealed this block of addresses allows individual zones to be mapped to selected outputs.

The default setting is that no Day zones are mapped to any of the 8 outputs.

P81E	Day Zones to Output #1. Options=Zones 1-8 (Default=None)
P82E	Day Zones to Output #2. Options=Zones 1-8 (Default=None)
P83E	Day Zones to Output #3. Options=Zones 1-8 (Default=None)
P84E	Day Zones to Output #4. Options=Zones 1-8 (Default=None)
P85E	Day Zones to Output #5. Options=Zones 1-8 (Default=None)
P86E	Day Zones to Output #6. Options=Zones 1-8 (Default=None)
P87E	Day Zones to Output #7. Options=Zones 1-8 (Default=None)
P88E	Day Zones to Output #8. Options=Zones 1-8 (Default=None)

Chime To O/P 1

### MAPPING ZONE TAMPERS TO OUTPUTS

#### **ZONE TAMPER MAPPING TO OUTPUTS - P91E - P98E**

When a zone input is set for Dual-End-of-Line (P130E) the short & open circuit tampers are automatically enabled for that zone input. This option allows the zone tamper alarms to be mapped through to individual outputs. Led 1-4 is a short on the Zone 1-4 and a Led 5-8 is an open loop in Zone 5-8.

Tamper To O/P 1 1 2 3 4 5 6 7 8

P91E	Zone Tamper to Output #1. Options= Zone Tampers 1-8 (Default=1-8)
P92E	Zone Tamper to Output #2. Options= Zone Tampers 1-8 (Default=1-8)
P93E	Zone Tamper to Output #3. Options= Zone Tampers 1-8 (Default=1-8)
P94E	Zone Tamper to Output #4. Options= Zone Tampers 1-8 (Default=None)
P95E	Zone Tamper to Output #5. Options= Zone Tampers 1-8 (Default=None)
P96E	Zone Tamper to Output #6. Options= Zone Tampers 1-8 (Default=None)
P97E	Zone Tamper to Output #7. Options= Zone Tampers 1-8 (Default=None)
P98E	Zone Tamper to Output #8. Options= Zone Tampers 1-8 (Default=None)

### MAPPING RADIO KEYS TO OUTPUTS

#### **RADIO KEY(PENDANT) MAPPING TO OUTPUTS - P101E - P108E**

When a Radio Key is to be used to operate a garage door or similar function this block of addresses allows individual Radio Keys to be mapped to selected outputs. The default setting is that none of the 8 Radio Keys are

The default setting is that none of the 8 Radio Keys are mapped to any outputs.

P101E	Radio Key to Output #1. Options=Pendant 1-8 (Default=None)
P102E	Radio Key to Output #2. Options=Pendant 1-8 (Default=None)
P103E	Radio Key to Output #3. Options=Pendant 1-8 (Default=None)
P104E	Radio Key to Output #4. Options=Pendant 1-8 (Default=None)
P105E	Radio Key to Output #5. Options=Pendant 1-8 (Default=None)
P106E	Radio Key to Output #6. Options=Pendant 1-8 (Default=None)
P107E	Radio Key to Output #7. Options=Pendant 1-8 (Default=None)
P108E	Radio Key to Output #8. Options=Pendant 1-8 (Default=None)

Radio Key O/P 1

### TEMPORARY OUTPUT DISABLE

This address P109E allows a technician to select any output/s to be temporarily disabled for one alarm or armed cycle, eg by turning on LEDS 1-4 at P109E then leaving program mode, outputs 1-4 will not turn on following any alarms. The technician is now free to arm the system to test all monitoring signals without having all of the internal & external alarms activating. When the alarm is reset or disarmed all outputs will now work normally again.

P109E Select output # 1-8

Temp O/P Disable

### PARTITION "A" OPTIONS

#### **PARTITION "A" OPTIONS - P110E**

This address allows modification of how Partition "A" arming, STAY and control keys work at the keypad.

- P110E 1E "ARM" button required before code to set- Default off2E "STAY" button required before code to turn on Stay Mode- Default off
  - **3E** "CODE" required to arm- Default off
  - 4E "ARM" button can disarm system during exit delay Default on5E "STAY" button can disarm Stay Mode at any time- Default on
  - **6E** No Exit Beeps to keypads in Stay Mode- Default off
  - 7E Key-switch Enabled- Default off8E Key-switch Mode- Default off
- Option 1 "ARM" button required before code to set This option determines if the "ARM" button must be pressed before a code is entered to set Area "A". If a keypad is assigned to both Partitions, this option should be set to allow individual arming of each area. This option disables the Arm button from disarming during the exit delay.
- Option 2 "STAY" button required before code to set This option determines if the "STAY" button must be pressed before a code is entered to set Area "A" Stay Mode. If a keypad is assigned to both Partitions, this option should be set to allow individual arming of Stay Mode for each area.
- Option 3 "CODE" required to set If this option is set, the "ARM" button is disabled and the panel requires a code to arm as well as disarm.
- Option 4 "ARM" button can disarm during exit delay If this option is on then the "arm" button can disarm Partition "A" during the exit delay time with a single press of the button. If the option is off then the alarm can only be unset by a valid code, even during the exit delay time.
- Option 5 "STAY" button can disarm Stay Mode This option allows the "Stay" button to disarm STAY mode at any time (including when Stay Mode is fully set). If the option is off then Stay Mode can only be unset by a valid code. This feature is defaulted to keypad addresses 1 & 4 ( 4 being the default address for the STAY key station).
- Option 6 **No Exit Beeps to keypads in Stay Mode -** This option stops the exit beeps from occurring at all keypads when Stay Mode is set. Normally used for silent night arming.
- Option 7 **Enable Partition "A" Key-switch -** If this option is turned on then the system tamper input (Tmp) becomes a Dual End of Line Input (Refer to Type 4 drawing on Page 4 for wiring details). The low input 4K7 is reserved for Partition "A" key-switch operation. An open circuit will still be seen as a system tamper.
- Option 8 **Key-switch Mode** If this option is On then the key-switch has a toggle function (ie the arm/disarm state will follow the key-switch state). If Off then the key-switch is momentary (ie each single pulse will change the arm/disarm state). The panel tamper input is used to provide the key-switch function.

Area A Option
- - - 4 5 - - -

### PARTITION "A" OUTPUT OPTIONS

#### **PARTITION "A" OUTPUT OPTIONS - P111E - P118E**

This block of addresses sets a number of output options which are specific and unique to the operation of partition or Area "A". Activity in Areas "B" will have no direct effect on the options set at these addresses.

8E

P111E 1E Arm status to output- Default off (P113E=ON)

2E Stay Mode on status to output- Default off (P113E=ON)

3E Disarm status to output- Default off (P113E=

4E Pendant chirps for Arm to output - Default off

5E Pendant chirps for Stay Mode On to output - Default off

6E Pendant chirps for Disarm to output - Default off

7E Pulse on Arming to output - Default off (P114E=ON)

Pulse on Disarming to output - Default off

AreaA Opt O/P 1

- Option 1 **Arm indication to output** This option will turn the output on when Area "A" is armed. The output will turn on at the start of the exit delay and turn off when the Area is disarmed. The output reset time should be set to zero.
- Option 2 Stay Mode On indication to output This option will turn the output on when Area "A" Stay Mode is armed. The output will turn on at the start of the exit delay and turn off when Stay Mode is disarmed. The output reset time should be set to zero.
- Option 3 **Disarm indication to output** This option will turn the output on when Area "A" is Disarmed. The output will turn on when the Area "A" is disarmed and turn off when the Area is Armed or in Stay Mode. The output reset time should be set to zero.
- Option 4 **Pendant Chirps for Arm to output** This option will map two short pulses (Chirps) to the output when Area "A" is armed via a radio key (Pendant) ,( the length of the pulses is set by the pulse timer P221E-P228E).
- Option 5 **Pendant Chirps for Stay Mode On to output** This option will map two short pulses (Chirps) to the output when Area "A" Stay Mode is set via a radio key (Pendant) ,( the length of the pulses is set by the pulse timer P221E -P228E).
- Option 6 **Pendant Chirps for Disarm to output** This option will map four short pulses (Chirps) to the output when Area "A" is Disarmed via a radio key (Pendant) ,( the length of the pulses is set by the pulse timer P221E-P228E).
- Option 7 **Pulse on Arming to output** This option will map a pulse to the Output each time Area"A" is armed (the length of the pulses is set by the pulse timer P221E-P228E).
- Option 8 **Pulse on Disarming to output** This option will map a pulse to the Output each time Area"A" is disarmed (the length of the pulses is set by the pulse timer P221E-P228E).

Note: P112E through P118E are as above but applied to outputs 2-8

### PARTITION "B" OPTIONS

#### **PARTITION "B" OPTIONS - P120E**

This address allows modification of how Partition "B" arming, STAY and control keys work at the keypad.

P120E 1E "ARM" button required before code to set- Default off

**2E** "STAY" button required before code to turn on Stay Mode- Default off

**3E** "CODE" required to arm- Default off

4E "ARM" button can disarm system during exit delay - Default on5E "STAY" button can disarm Stay Mode at any time- Default on

**6E** No Exit Beeps to keypads in Stay Mode- Default off

**7E** Key-switch Enabled- Default off **8E** Key-switch Mode- Default off

AreaB Option

. - - 4 5 - - -

- Option 1 "ARM" button required before code to set This option determines if the "ARM" button must be pressed before a code is entered to set Area "B". If a keypad is assigned to both Partitions, this option should be set to allow individual arming of each area. This option disables the Arm button from disarming during the exit delay.
- Option 2 "STAY" button required before code to set This option determines if the "STAY" button must be pressed before a code is entered to set Area "B" Stay Mode. If a keypad is assigned to both Partitions, this option should be set to allow individual arming of Stay Mode for each area.
- Option 3 "CODE" required to set If this option is set, the "ARM" button is disabled and the panel requires a code to arm as well as disarm.
- Option 4 "ARM" button can disarm during exit delay If this option is on then the "arm" button can disarm Partition "B" during the exit delay time with a single press of the button. If the option is off then the alarm can only be unset by a valid code, even during the exit delay time.
- Option 5 "STAY" button can disarm Stay Mode This option allows the "Stay" button to disarm STAY mode at any time (including when Stay Mode is fully set). If the option is off then Stay Mode can only be unset by a valid code. This feature is defaulted to keypad addresses 1 & 4 ( 4 being the default address for the STAY key station).
- Option 6 **No Exit Beeps to keypads in Stay Mode -** This option stops the exit beeps from occurring at all keypads when Stay Mode is set. Normally used for silent night arming.
- Option 7 **Enable Partition "B" Key-switch -** If this option is turned on then the system tamper input (Tmp) becomes a Dual End of Line Input (Refer to Type 4 drawing on Page 4 for wiring details). The high input 8K2 is reserved for Partition "B" key-switch operation. An open circuit will still be seen as a system tamper.
- Option 8 **Key-switch Mode -** If this option is On then the key-switch has a toggle function (ie the arm/disarm state will follow the key-switch state). If Off then the key-switch is momentary (ie each single pulse will change the arm/disarm state). The panel tamper input is used to provide the key-switch function.

### PARTITION "B" OUTPUT OPTIONS

#### PARTITION "B" OUTPUT OPTIONS - P121E - P128E

This block of addresses sets a number of output options which are specific and unique to the operation of partition or Area "B". Activity in Areas "A" will have no direct effect on the options set at these addresses.

P121E 1E Arm status to output- Default off

**2E** Stay Mode on status to output- Default off

**3E** Disarm status to output - Default off

- **4E** Pendant chirps for Arm to output Default off
- **5E** Pendant chirps for Stay Mode On to output Default off
- Pendant chirps for Disarm to output Default off
- **7E** Pulse on Arming to output Default off (P124=ON)
- **8E** Pulse on Disarming to output Default off
- Option 1 **Arm indication to output** This option will turn the output on when Area "B" is armed. The output will turn on at the start of the exit delay and turn off when the Area is disarmed. The output reset time should be set to zero.
- Option 2 **Stay Mode On indication to output** This option will turn the output on when Area "B" Stay Mode is armed. The output will turn on at the start of the exit delay and turn off when Stay Mode is disarmed. The output reset time should be set to zero.
- Option 3 **Disarm indication to output** This option will turn the output on when Area "B" is Disarmed. The output will turn on when the Area "B" is disarmed and turn off when the Area is Armed or in Stay Mode. The output reset time should be set to zero.
- Option 4 **Pendant Chirps for Arm to output** This option will map two short pulses (Chirps) to the output when Area "B" is armed via a radio key (Pendant) ,( the length of the pulses is set by the pulse timer P221E-P228E).
- Option 5 **Pendant Chirps for Stay Mode On to output** This option will map two short pulses (Chirps) to the output when Area "B" Stay Mode is set via a radio key (Pendant) ,( the length of the pulses is set by the pulse timer P221E -P228E).
- Option 6 **Pendant Chirps for Disarm to output** This option will map four short pulses (Chirps) to the output when Area "B" is Disarmed via a radio key (Pendant) ,( the length of the pulses is set by the pulse timer P221E-P228E).
- Option 7 **Pulse on Arming to output** This option will map a pulse to the Output each time Area "B" is armed (the length of the pulses is set by the pulse timer P221E-P228E).
- Option 8 **Pulse on Disarming to output** This option will map a pulse to the Output each time Area "B" is disarmed (the length of the pulses is set by the pulse timer P221E -P228E).

Note: P122E through P128E are as above but applied to outputs 2-8

AreaB Opt O/P 1

### PROGRAMMING ZONE EOL OPTIONS

#### SINGLE ZONE EOL OR DUAL ZONE INPUT (4 or 8 zones) - P130E - Default=1-8 OFF

P130E 1-8E Single Zone EOL or dual zone input - This option is used to define the PW-8 as a 4 zone panel with or without EOL (End of Line Resistors) or an 8 zone panel. Options 1-4 relate to zones 1-4 respectively and decide whether the zone input requires an end of line resistor or just a short or open circuit to seal the zone. If the LED's are OFF (Type 1 Drawing on Page 4) then a short on the input is all that is needed to seal the input. If the LED's 1-4 are ON (Type 2 Drawing on Page 4) then the input requires a 2k2 resistor to seal the zone. Options 5-8 relate to zone inputs 1-4 respectively and allow "Zone Doubling" to be turned on for a particular input. When a zone has been assigned "Zone Doubling" the one input is used for both a low (1-4) and a high (5-8) zone. When zone doubling is turned On, zone 1 input is used for zones 1 & 5, zone 2 input is used for zones 2 & 6, zones 3 input is used for zones 3 & 7 and zone 4 input is used for zones 4 & 8. Zone doubling is assigned on a zone-by-zone basis. Each input can be configured as two zones (Type 3 drawing on page 4) without tamper monitoring or two zones (Type 4 drawing on page 4) with tamper monitoring. To use the Type 3 mode for zones 1 & 5

you must turn LED#1 Off and LED#5 On. To use Type 4 mode for zones 1 & 5 you must turn LED#1 On and LED#5 On. The same applies to the other zone inputs. Refer to the table on Page 4 for more details.

EOL & Doubling

### PROGRAMMING ZONE OPTIONS

#### PROGRAMMING ZONE OPTIONS-P129E,P131E-P150E

This block of addresses (P129E - P150E) are used to select the desired functions for Zones 1-8

#### P131E Partition "A" Zones

Zones 1-8. (Default = All 8 zones)

This option allows programming of which zones will be assigned to Partition A. If a zone is in Both A & B then it becomes common to both Areas.

#### P132E Partition "B" Zones

Zones 1-8. (Default = No zones)

This option allows programming of which zones will be assigned to Partition B. If a zone is in Both A & B then it becomes common to both Areas.

#### P133E Zone is NC or NO

Zones 1-8. (Default =Led Off, All Zones NC, Normally Closed)

By turning the LED on for zone 1 at this address, the panel is now looking for a Normally Open (NO) contact on the zone (4K7).

#### P134E Radio Zone Input

Zones 1-8. (Default = No zones)

This option allows programming of which zones will be radio zones. If a zone is a radio zone, the panel ignores the state of the hardwired input for that zone). If the zone input has been set to tamper monitoring, the tampers are still active even if zones are set for Radio operation.

#### P135E Manually BYPASSED Zone

Zones 1-8. (Default = All 8 zones)

This option allows programming of which zones can be manually BYPASSED prior to Arming. If a zone has this option turned off, then that zone cannot be BYPASSED manually). Zones are BYPASSED during the disarm state and normal zones which are BYPASSED become re-included once the alarm has been set then unset. 24 hour zones, however remain BYPASSED until manually re-included again. Every time the alarm is set or unset with zones BYPASSED the keypad will respond with a long beep instead of the normal 3 short beeps to indicate that excludes are present. When excluding zones, the READY\EXCL & PROGRAM LED's are on to indicate that you have entered BYPASS mode. After BYPASSING zones the READY\BYP led will flash when all zones are sealed to indicate that zones are BYPASSED

#### P136E Auto-BYPASSED Zone

Zones 1-8. (Default = No zones)

This option allows programming of which zones can be automatically BYPASSED at the end of the exit delay if unsealed at that time. If a zone has this option turned off, then that zone will not auto-BYPASSED and will go into alarm if not sealed.

#### P137E Follow/Handover Zone

Zones 1-8. (Default = only zone 2 = on )

This option allows programming of which zones will be handover zones. If a zone is a handover zone then it's entry delay time will apply provided a non-handover zone is triggered before the handover zone. If no other entry delays are active when the handover zone is triggered, the zone will activate immediately.

#### P138E Two Trigger Zone

Zones 1-8. (Default = No zones)

This option allows programming of which zones will require two triggers before they activate. To cause an activation a two trigger zone must alarm twice within the 2 trigger time period, P229E, or 2 two trigger zones can alarm once each within the two trigger time period before the alarm is generated. If a two trigger zone is unsealed and remains unsealed for a period longer than the two trigger time period, an alarm will also be generated.

#### P139E Stay Mode Zone

Zones 1-8. (Default = **Zone 1**)

This option allows programming of which zones can be assigned as Stay Mode Zones. Only zones programmed at this address will be active when STAY mode is armed.

#### P129E 24 Hour Fire Zone Zones 1-8. (Default = No zones)

This option allows a zone to be programmed as a 24 hour fire zone. If programmed as a fire zone, when the zone causes an alarm if will flash any outputs it is programmed to operate at a rate set by the pulse timer (P221-228E).

#### P140E 24 Hour Zone Zones 1-8. (Default = No zones)

This option allows programming of which zones can be assigned as 24 Hour Zones. Only zones programmed at this address will be active at all times. If a 24 hour zone has an entry delay assigned to it, the entry delay acts as an abort timer e.g. the zone must be in alarm longer than the entry delay time before the alarm is activated. If the zone is sealed before the entry delay expires, no alarm is generated.

#### P141E Non-Latching 24 Hour Zone Zones 1-8. (Default = No zones)

This option allows programming of which zones can be assigned as Non-Latching 24 Hour Zones. A Non-Latching 24 Hour Zone will operate as a normal 24 Hour zone except that when the zone re-seals the zone LED and any assigned outputs will reset automatically.

#### P142E Lockout Zone Zones 1-8. (Default = No zones)

This option allows programming of which zones can be assigned as Lockout Zones. A Lockout Zone will only cause the alarm output to sound once during and armed period. If the lockout function is not programmed then the zone can cause the audible darms to sound on every zone alarm. In the case of a 24 hour zone, if this option is turned on then the zone will only activate the alarm output/s once and must be reset by a code before another alarm signal can operate the output/s again.

#### P143E Day Zone (CHIME) when Disarmed Zones 1-8. (Default = No zones)

This option allows programming of which zones can be assigned as Day Zones. A Day Zone can be used as a door minder in a shop to warn when a customer has entered the premises. A day zone has the day zone function when the alarm is disarmed, but becomes a normal security zone when armed. Day zones can be temporarily disabled with the "Control" button if programmed to do so.

#### P144E Permanent Day Zone (CHIME) Zones 1-8. (Default = No zones)

This option allows programming of which zones can be assigned as Permanent Day Zones. A Permanent Day Zone can be used as a door minder in a shop to warn when a customer has entered the premises. A Permanent day zone will never cause an activation when the alarm is armed). Day zones can be temporarily disabled with the "Control" button if programmed to do so.

#### P145E Can Arm if not Sealed Zones 1-8. (Default = No zones)

This option allows programming of which zones can be unsealed and still allow the panel to arm. Option 4 at P170E must be on before this address has any effect. This option allows setting of the panel if low security areas are not sealed at the time of arming.

#### P146E Report BYPASS to Dialer Zones 1-8. (Default = All zones)

If this option is on then the zone will report any exclusion (Bypass) of the zone to a Monitoring Station via Contact ID or 4 + 2.

#### P147E Send Multiple Alarms to Dialer Zones 1-8. (Default = All zones)

If this option is assigned to the zone, the zone can send multiple activation reports to a monitoring company during any armed cycle. If off, the zone can only send one activation per armed cycle. In the case of a 24 hour zone, if this option is turned off then the zone will only send one signal via the dialer and must be reset by a code before another signal can be sent.

#### P148E Report Zone Tampers to Dialer Zones 1-8. (Default = All zones)

This option allows the programming of zone tampers to be sent via the dialer to a Monitoring Station.

#### P149E Zone Reports Area "B" Account Zones 1-8. (Default = No zones)

When a zone is in both partitions A&B this address allows the option of specifying which account number a zone alarm will report to. The default is that a common zone will report to area A account code (P332E) but if this option is on for a common zone it will report to area B account code (P333E).

#### P150E Inactivity Timer Zones Zones 1-8. (Default = None)

This option allows the programming of which zones will be monitored for inactivity. All zones programmed with this feature ON will be monitored for activity for the period set below (P240E). The inactivity timer only works

during the disarmed state and is accumulative, which means that if a zone does not trip at least once during a disarm period the inactivity timer is not reset for that zone and will continue with the balance of the time period left when the panel is next disarmed. The timer for each zone is reset every time a zone unseals.

### PROGRAMMING ZONE INACTIVITY TIMER

P240E Inactivity Timer - 0-255 Hours. Default =120 Hours

Inactivity Timer 120

### PROGRAMMING ENTRY DELAYS

P301E	Zone 1 Entry Delay Time - 0-9999 Seconds (Default = 20 Sec)
P302E	Zone 2 Entry Delay Time - 0-9999 Seconds (Default = 20 Sec)
P303E	<b>Zone 3 Entry Delay Time -</b> 0-9999 Seconds (Default = 0 Sec)
P304E	<b>Zone 4 Entry Delay Time -</b> 0-9999 Seconds (Default = 0 Sec)
P305E	Zone 5 Entry Delay Time - 0-9999 Seconds (Default = 0 Sec)
P306E	Zone 6 Entry Delay Time - 0-9999 Seconds (Default = 0 Sec)
P307E	Zone 7 Entry Delay Time - 0-9999 Seconds (Default = 0 Sec)
P308E	Zone 8 Entry Delay Time - 0-9999 Seconds (Default = 0 Sec)

Zone 1Entry De-20

### PROGRAMMING EXIT DELAYS

P219E Partition "A" Exit Delay Time - 0-255 Seconds (Default = 60 Sec)
P220E Partition "B" Exit Delay Time - 0-255 Seconds (Default = 60 Sec)

Area A Exit Delay 60

### PROGRAMMING TWO TRIGGER TIMER

**P229E** Two Trigger Timer - 0-255 Seconds (Default = **60** Sec)

Two Trigger Timer 60

### DAY MODE TO KEYPAD BUZZER TIMER

These addresses can be programmed to have a value from 0 to 99 but the value is in 1/10 of a second increments. This means the default of 20 at addresses P209E & P210E is equal to 2 seconds. This gives a much greater control on the duration of the day zone beep to the keypad.

P209E Area "A" Day Mode to Keypad Buzzer Timer - 0-99 (Default = 20 1/10th sec)
P210E Area "B" Day Mode to Keypad Buzzer Timer - 0-99 (Default = 20 1/10th sec)

AreaA Chime time 20

### **OUTPUT TIMING OPTIONS**

300

#### OUTPUT RESET TIME-P311E-P318E (0-9999 Seconds)

The output reset time is how long an output will stay on following an alarm condition. A value of "0" means the output will latch until reset by a valid user code.

P311E	Output 1 Alarm Reset Time - (Default = 300 Sec)
P312E	Output 2 Alarm Reset Time - (Default = 300 Sec)
P313E	Output 3 Alarm Reset Time - (Default = 0 Sec)
P314E	Output 4 Alarm Reset Time - (Default = 0 Sec)
P315E	Output 5 Alarm Reset Time - (Default = 0 Sec)
P316E	Output 6 Alarm Reset Time - (Default = 0 Sec)
P317E	Output 7 Alarm Reset Time - (Default = 0 Sec)
P318E	Output 8 Alarm Reset Time - (Default = 0 Sec)

O/P 1 Reset Time

#### OUTPUT DELAY ON TIME-P201E-P208E (0-99 Seconds)

The output delay ON time is how long an output will be delayed before turning on following an alarm condition.

P201E	Output 1 Delay On Time - (Default = 0 Sec)
P202E	Output 2 Delay On Time - (Default = 0 Sec)
P203E	Output 3 Delay On Time - (Default = 0 Sec)
P204E	Output 4 Delay On Time - (Default = 0 Sec)
P205E	Output 5 Delay On Time - (Default = 0 Sec)
P206E	Output 6 Delay On Time - (Default = 0 Sec)
P207E	Output 7 Delay On Time - (Default = 0 Sec)
P208E	Output 8 Delay On Time - (Default = 0 Sec)

O/P 1 Delay Time

0

#### OUTPUT DAY MODE TIME-P211E-P218E (0-99 1/10th Second)

The output day mode timer is how long an output will turn on following a day zone unsealing. The Day Mode Timer is in 1/10th Sec intervals e.g. 20=2 Seconds

P211E	Output 1 Day Mode Time - (Default = 20)
P212E	Output 2 Day Mode Time - (Default = 20)
P213E	Output 3 Day Mode Time - (Default = 20)
P214E	Output 4 Day Mode Time - (Default = 20)
P215E	Output 5 Day Mode Time - (Default = 20)
P216E	Output 6 Day Mode Time - (Default = 20)
P217E	Output 7 Day Mode Time - (Default = 20)
P218E	Output 8 Day Mode Time - (Default = 20)

O/P 1 Chime Time 20

#### OUTPUT PULSE TIMER-P221E-P228E (0-99 1/10th Second)

The output pulse timer is how long an output will turn on when the pulse timer is used. The Pulse Timer is in 1/10th Sec intervals e.g. 20=2 Seconds

P221E	Output 1 Pulse Timer - (Default = 20)
P222E	Output 2 Pulse Timer - (Default = 20)
P223E	Output 3 Pulse Timer - (Default = 20)
P224E	Output 4 Pulse Timer - (Default = 20)
P225E	Output 5 Pulse Timer - (Default = 20)
P226E	Output 6 Pulse Timer - (Default = 20)
P227E	Output 7 Pulse Timer - (Default = 20)
P228F	Output 8 Pulse Timer - (Default = 20)

O/P 1 Pulse Time

20

### **ENROLLING RADIO ZONE (CODE LOAD)**

To load a radio device as a zone input on the panel, press the appropriate address number (eg P604E for Zone 4). The keypad buzzer will beep once a second to indicate learn mode has been initiated and the Led on the RX-40 board will flash. The radio device you wish to load must transmit a signal within 30 seconds of entering learn mode otherwise the panel will time out and no code will be loaded. If a valid code is received within the 30 seconds the keypad will give 3 short beeps and exit learn mode. To remove a loaded radio code at a single address only, enter in the address you wish to delete the code at eg P604E, then without operating the transmitter and before the 30 second timer expires press the "Enter" button. This will remove the code loaded against this address (in this case radio zone 4).

P601E Load Radio Code for Zone 1 P602E Load Radio Code for Zone 2 P603E Load Radio Code for Zone 3 P604E Load Radio Code for Zone 4 P605E Load Radio Code for Zone 5 P606E Load Radio Code for Zone 6 P607E Load Radio Code for Zone 7 P608E Load Radio Code for Zone 8

LearnRadioZone1 Learning

### RADIO ZONE DETECTOR OPTIONS

#### RADIO ZONE DETECTOR OPTIONS- P231E-P238E - Default= 0

This block of addresses (P231E - P238E) are used to select the type of detector to be used on the radio zone input and allow functions such as battery low, tamper and normal alarm to be correctly recognized. To make the radio zone work you must also tell the zone input that it is a radio zone (P134E-zones 1-8).

P231E-Zone 1 Options 1E

Crow AE series battery Low

2E Crow AE series Radio Reed Switch

3E Crow Merlin PIR (supervised signal ignored)
4E Crow Merlin PIR (supervised signal active)

5E Freelink with checksum (supervised signal active)

6E Freelink with checksum (Non-supervised)

11E Ness Radio devices Battery Low

12E Ness Radio Reed Switch

21E Electronics Line Cougar Radio PIR

31E Visonic K900 Radio PIR

**32E** Visonic Powercode Devices (supervised signal ignored)

**33E** Visonic Powercode Devices (supervised signal active)

- Option 5 Freelink with checksum (supervised signal active) If a Crow Freelink radio PIR is used on the Alert radio zone input, setting this bit allows the panel to correctly recognize the alarm, tamper & battery low signal from the device. The automatic supervised signal is sent every 20 minutes.
- Option 6 **Freelink with checksum (non-supervised) -** If a Crow Freelink radio PIR is used on the Alert radio zone input, setting this bit allows the panel to correctly recognize the alarm, tamper & battery low signal from the device. The automatic supervised signal sent every 20 minutes by the PIR is ignored in this mode.
- Option 1 **Crow AE Series Battery Low** If a Crow (AE) radio pendant or PIR is used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the battery low signal from Crow devices.
- Option 2 **Crow AE Series Radio Reed Switch** If a Crow (AE) radio reed switch is used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the battery low signal from the Crow device. This bit also recognizes the open and closed signals from the reed switch so the zone Led can follow the correct state of the reed switch (i.e. open or closed)
- Option 3 **Crow Merlin PIR (unsupervised) -** If a Crow Merlin radio PIR is used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the alarm, tamper & battery low signal from the device. The automatic supervised signal sent every 40 minutes by the PIR is ignored in this mode.
- Option 4 **Crow Merlin PIR (supervised) -** If a Crow Merlin radio PIR is used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the alarm, tamper & battery low signal from the device. Setting this option on also starts a 4 hour timer for the supervised signal. The 4 hour timer is

constantly being reset while valid supervised signals are being received every 40 minutes. If no supervised signals are received from the PIR within the 4 hour period, a supervised alarm is generated.

- Option 11 Ness Battery Low If a Ness radio pendant or PIR is used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the battery low signal from Ness devices.
- Option 12 **Ness Radio Reed Switch** If a Ness radio reed switch is used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the battery low signal from Ness device. This bit also recognizes the open and closed signals from the reed switch so the zone Led can follow the correct state of the reed switch (ie open or closed)
- Option 21 **Electronics Line Radio PIR-** If an Electronics Line radio PIR is used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the alarm, tamper & battery low signal from EL device.
- Option 31 **Visonic Radio PIR-** If a Visonic K900 radio PIR is used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the alarm, tamper & battery low signal from the device.
- Option 32 **Visonic Powercode (unsupervised) -** If a Visonic Powercode radio device is used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the alarm and battery low signal from the device but the supervised signal is ignored.
- Option 33 **Visonic Powercode (supervised)** If the Visonic Powercode range of radio PIR or reed switch are used on the PW-8 radio zone input, setting this bit allows the panel to correctly recognize the alarm, tamper & battery low signal from the device. Setting this option on also starts a 4 hour timer for the supervised signal. The 4 hour timer is constantly being reset while valid supervised signals are being received every 1-1.5 hours. If no supervised signals are received from the PIR within the 4 hour period, a supervised alarm is generated.

Note: P232E through P238E are as above but applied to zones 2-8

Radio Zone 1 Type 5

### RADIO ZONE SUPERVISED TIMER

P239E RADIO ZONE SUPERVISED TIMER - Default= 240 Minutes (Value 0-255 Minutes)

### **ENROLLING RADIO KEYS**

To load a radio pendant on the panel, press the appropriate address number (e.g. P614E for Pendant 4). The keypad buzzer will beep once a second to indicate learn mode has been initiated and the Led on the RX-40 board will flash. The radio pendant you wish to load must transmit a signal within 30 seconds of entering learn mode otherwise the panel will time out and no code will be loaded. If a valid code is received within the 30 seconds the keypad will give 3 short beeps and exit learn mode. To remove a loaded radio pendant at a single address only, enter in the code load address a above eg P614E, then without operating the transmitter and before the 30 second timer expires press the "Enter" button. This will remove the code loaded against this address (in this case radio pendant 4).

P611E	Load Radio Pendant # 1
P612E	Load Radio Pendant # 2
P613E	Load Radio Pendant # 3
P614E	Load Radio Pendant # 4
P615E	Load Radio Pendant # 5
P616E	Load Radio Pendant # 6
P617E	Load Radio Pendant # 7
P618E	Load Radio Pendant # 8

Learn Pendant 1
Learning

### RADIO PENDANT OPTIONS "A"

#### **RADIO PENDANT OPTIONS "A"- P151E-P158E**

This block of addresses (P151E - P158E) are used to select the operational settings for each of the 8 radio pendants. Functions such as arm only, disarm only or both can be selected for each pendant independently.

Pendant 1 Opt A 1 - 34 - - -

P151E-Pendant #1 Options 1E

Assigned to Partition "A" - Default on

2E Assigned to Partition "B" - Default off

3E Pendant can Arm the system - Default on

4E Pendant can Disarm the system - Default on 5E

Pendant can turn Stay Mode On - Default off

6E Pendant can turn Stay Mode Off - Default off

7E Spare - Default off

8E Pendant is disabled if panel is in alarm - Default off

Option 1 Assigned to Partition "A" - This option assigns the pendant to partition "A". The pendant must be assigned to at least one partition to allow it to perform arm/disarm functions. The pendant can be assigned to both partitions if required.

Option 2 Assigned to Partition "B" - This option assigns the pendant to partition "B". The pendant must be assigned to at least one partition to allow it to perform arm/disarm functions. The pendant can be assigned to both partitions if required.

Option 3 Pendant can Arm - This option assigns the Arm function to a pendant. The partition/s it will arm has to be selected at options 1 & 2.

Option 4 Pendant can Disarm - This option assigns the Disarm function to a pendant. The partition/s it will disarm has to be selected at options 1 & 2.

Option 5 Pendant can turn Stay Mode On - This option assigns the Stay Mode Arm function to a pendant. The partition/s it will arm has to be selected at options 1 & 2. If Stay Mode arming is to be used for this pendant then Options 2 & 3 should be turned off.

Option 6 Pendant can turn Stay Mode Off - This option assigns the Stay Mode Disarm function to a pendant. The partition/s it will disarm has to be selected at options 1 & 2. If Stay Mode disarming is to be used for this pendant then Options 2 & 3 should be turned off.

Option 7 **Spare** 

Option 8 Pendant Disabled if panel is in Alarm - This option stops the pendant from working while the panel is in alarm. This feature should only be set if you feel that a pendant with disarming functions could be prone to misuse in an alarm condition.

Note: P152E through P158E are as above but applied to pendants 2-8

### RADIO PENDANT OPTIONS "B"

#### **RADIO PENDANT OPTIONS "B"- P161E-P168E**

This block of addresses (P161E - P168E) are used to select output control and Panic options for each of the 8 radio pendants. To prevent confusion, if a pendant is set to control an output or provide instant Panic, then you should turn off any Arm or Disarm options at addresses P151E-P158E.

Pendant 1 Opt B

P161E-Pendant #1 Options

1E Turn output ON - Default off

Turn output OFF - Default off 2E

3E Visonic Powercode Battery Low - Default off

- 4E Spare Default off
- **5E** Report Pendant Panic To Dialer Default off
- 6E Immediate Panic Alarm Default off
- **7E** Delayed Panic Alarm (1.5 Seconds) Default off
- **8E** Ness Battery Low Default off
- Option 1 **Turn Output On** This option allows the pendant to turn an output on. The output the pendant will turn On is programmed at address P101E-P108E. If the output reset time is set to Latched operation (set to "0") then you must also program Option 2 to the pendant to allow for turning the output Off.
- Option 2 **Turn Output Off** This option allows the pendant to turn an output off. The output the pendant will turn Off is programmed at address P101E-P108E. For this option to work, option 1 above must also be assigned to the pendant to allow the pendant to first turn the output on before it can turn it off.
- Option 3 **Visonic Powercode Battery Low -** If a Visonic Powercode Transmitter with battery low monitoring is used on the PW-8, setting this option will allow the battery signal to be correctly recognised.
- Option 4 Spare
- Option 5 **Report Panic to Dialer-** This option enables a panic alarm from a pendant to be sent via the dialer to a Monitoring Station.
- Option 6 **Immediate Panic Alarm -** If this option is on, pressing the pendant button will produce a pendant panic alarm. The Panic alarm can also be silent at the keypad or sound the keypad buzzer (see P175E)
- Option 7 **Delayed Panic Alarm-** If this option is on, the pendant button must be pressed continuously for 1.5 seconds or longer to produce a pendant panic alarm.
- Option 8 **Ness Battery Low -** If using a Ness pendant with battery low reporting, this option must be turned on to allow the battery low signal to be recognized properly.,

Note: P162E through P168E are as above but applied to pendants 2-8

### KEYPAD PARTITION ASSIGNMENT

A keypad must be assigned to a Partition before it can control the Partition (ie to allow Arm/Disarm facilities).

P171E Keypads Assigned to Partition "A" - Option Keypad 1-8 (Default = All keypads 1-8)

P172E Keypads Assigned to Partition "B" - Option keypad 1-8 (Default = None)

KeyPad in A 1 2 3 4 5 6 7 8

### **KEYPADS WITH PANIC BUTTON ENABLED**

The panic button on all keypads can be set for delayed or instant operation. If you do not want the Panic function enabled at any of the keypads you can dsable the operation at this address. This option may be useful where a keypad has to be installed in a public area.

P173E Keypads with the Panic Button Enabled - Option keypad 1-8 (Default = All keypads 1-8)

KP With Panic 1 2 3 4 5 6 7 8

### **KEYPADS PANIC (1&3)OR (CHIME&CONTROL) ENABLED**

An alternative Panic function to the dedicated panic button is to press the keypad buttons 1&3 simultaneously. If you do not want this Panic function enabled at any of the keypads you can disable the operation at this address. This option may be useful where a keypad has to be installed in a public area.

P174E

**Keypads with the Panic Buttons 1&3 or CHIME&CONTROL Enabled -** Option keypad 1-8 (Default = None)

Pa	nic	Со	mb	0	
	-		-		

#### **KEYPAD & RADIO PANIC ALARM TO KEYPAD BUZZER**

The two Keypad panic functions (P173E or P174E) plus the Radio Panic Alarms can be audible or silent at the keypads. If a silent panic is required the option must be turned off at this address. For an audible Panic Beep at the keypad/s turn this option on.

P175E Keypad & Radio Panic Alarm to Keypad Buzzer - Option keypad 1-8 (Default = All keypads 1-8)

Panic Beep KP 1 2 3 4 5 6 7 8

### KEYPADS FIRE (4&6) OR (CHIME&B) ENABLED

By pressing the buttons 4&6 or CHIME&B simultaneously it is possible to create a Fire alarm report to the dialer. **f** you want this Fire function enabled at any of the keypads you must enable the operation at this address.

P176E Keypads with the Panic Buttons 4&6 or CHIME&B Enabled - Option keypad 1-8 (Default = None)

Fire Combo	

### FIRE ALARM TO KEYPAD BUZZER

The two button fire function at the keypads (P176E) can be audible or silent at the keypads. If a silent fire alarm is required the option must be turned off at this address. For an audible Panic Beep at the keypad/s turn this option on.

Fire Beep KP

P177E Fire Alarm to Keypad Buzzer

Option keypad 1-8 (Default = None)

### **KEYPADS MEDICAL (7&9) OR (B&A) ENABLED**

By pressing the buttons 7&9 or B&A simultaneously it is possible to create a Medical alarm report to the dialer. If you want this Medical function enabled at any of the keypads you must enable the operation at this address.

P178E

M	ec	lic	al	C	o	ml	bo	
-	-	-	-	-	-	-	-	

### MEDICAL ALARM TO KEYPAD BUZZER

The two button medical function at the keypads (P178E) can be audible or silent at the keypads. If a silent medical alarm is required the option must be turned off at this address. For an audible Medical Beep at the keypad/s turn this option on.

M	ec	lic	E	3e	ep	þ	(P
-	-	-	-	-	-	-	-

P179E

**Medical Alarm to Keypad Buzzer -** Option keypad 1-8 (Default = None)

### STAY BUTTON CAN DISARM STAY MODE

The Alarm panel can be set up so that the "Stay" button at the keypad can be a single press to arm Stay Mode. During the Stay Armed state the "Stay" button can also be used to Disarm Stay Mode with a single press provided the keypad concerned has this option turned on. If you do not want single button disarming of STAY mode at any keypads then ensure this option is off for the keypad/s concerned. Also, after Stay Mode has been armed, if the "Enter" button is pressed, all exit & entry delays will be removed making the whole alarm instant. If the "Enter" button is not pressed then all exit and entry delays will apply.

P180E Stay Button can Disarm Stay Mode - Option keypad 1-8 (Default = 1 & 4)

S	ta	y (	Са	ın	Di	isa	arm
1	-	-	4	-	-	_	-

### MISCELLANEOUS PANEL OPTIONS # 1

This address (P169E) is used to select the first set of optional panel functions.

P169E 1E Turn Off keypad LEDS at the end of exit time - Default off

**2E** Keypad Panic Button delayed or instant - Default off

**3E** Installer Code has direct access to Program Mode - Default **on** 

Option 1 **Turn off keypad LEDS at end of exit time** - If this option is off (LED 1 Off) then the keypad LEDS remain working at all times. If it is on (LED 1 On), the keypad LEDS will automatically turn off at the end of the exit delay time (NOTE: the backlight LED's on an LED keypad will remain on). The LEDS will turn on again if the alarm is unset, an alarm occurs or any button on the keypad is pressed.

Option 2 **Keypad Panic Button delayed or instant** - If this option is off (LED 2 Off) any press of the "Panic" button on the LED keypads will result in an immediate panic alarm. If it is turned on (LED 2 On) there will now be a 2 second delay on the panic button. The button must be held down continuously for 2 seconds to create a panic alarm.

Option 3 Installer Code has direct access to Program Mode - If this option is off (LED 3 Off) the installer code cannot gain direct access to installation program mode. Access to installation program mode in this case must be via Client program Mode first (the owner must give authorization to the installer). If the option is on (LED 3 On) then the installer code will allow direct access to Installation program mode provided no areas are armed or in STAY mode.

Misc Option B

### MISCELLANEOUS PANEL OPTIONS # 2

This address (P170E) is used to select the second set of optional panel functions.

P170E 1E Panel Tamper NC or EOL - Defaul	t off
--	-------

- 2E Installer Lockout Default off
- 3E Disable Mains Fail Test Default off
- **4E** Arm only if sealed Default **on**
- No audible keypad beep on supervised radio fault Default off
   No audible keypad beep for zone Inactivity Timeout Default off
   "Control" button disables Day Zones( CHIME ) Default on
   Silent 24 Hour Alarms (No keypad Buzzer) Default off
- Option 1 Panel Tamper NC or EOL The Tamper input on the PW-8 control board (Tmp) requires sealing to clear the panel tamper alarm. If option 1 is on the panel must see a 2k2 resistor (EOL) across the Tmp & 0V terminals to ensure the tamper is sealed. If this option is turned off the a simple short circuit (NC) is all that is required to seal the panel tamper.
- Option 2 **Installer Lockout** Normally, if the panel is unset and powered up with the panel tamper open (in alarm) then the panel will automatically go into installer program mode. If this option is on, the panel will not automatically go into program mode and the only valid method of accessing program mode is via the installer code.
- Option 3 **Disable Mains Fail Test** If the panel must be run off a DC supply but the supply is too low to be wired into the AC terminals then this option completely disables the mains fail monitoring so the panel will not give a continuous system alarm.
- Option 4 **Arm only if sealed -** If this option is on then the panel can only be armed if all zones are sealed( Ready LED On), with the exception of those zones which can be unsealed if programmed at address P145E.
- Option 5 No audible keypad beep on supervised radio fault If a supervised radio detector fails to send a test signal within a preset period, an alarm will be generated. A supervised alarm will cause the system LED on the keypad to flash. If this option is off then all keypad buzzers will also sound continuously to warn of the problem. If this option is on, the buzzers will not sound on a supervised alarm but the system LED will still flash.
- Option 6 No audible keypad beep on zone inactivity timeout If a zone is set for inactivity monitoring (P150E) and it does not unseal at least once during the timeout period (P240E) an alarm will be generated. An inactivity timeout will cause the trouble LED on the keypad to flash and the zone led that failed will be on solid. If this option is off then all keypad buzzers will also sound continuously to warn of the problem. If this option is on, the buzzers will not sound on a zone inactivity alarm but the trouble LED will still flash.
- Option 7 "CONTROL" function disables day zones (CHIME) This option will disable the day zone monitoring when 'Control" is on. It is used to stop day zone beeps from occurring at the keypad or operating an output when not needed. To initiate the "Control" function the operator must press The "Control" button followed by the "Program" button. When the "Control" function is On the Program LED will flash.
- Option 8 **Silent 24 Hour Alarms (No keypad Buzzer)** If this option is on then any 24 hour alarms (P129,140 or 141E) will not cause the keypad buzzer to sound i.e. silent alarm.

Misc Option A - - - 4 - - 7 -

### **DURESS DIGIT**

This address (P230E) is used to program the duress digit. The duress digit is a number from 1-9 ("0" means the duress function is disabled) .To create a duress alarm the duress digit must be entered before a valid user code (eg If the code was "123" and the duress number was "4", then entering a code of "4123" "Enter" would create a duress alarm).

Duress Digit 0

**P230E** Duress Digit - Value 1-9 (Default = 0, Disabled)

### SETTING REAL TIME CLOCK

The Real Time Clock is used to Time & Date stamp the events in the Event Buffer. Ensure this is set correctly at the time of installation so that the events have the proper time and date associated with them. The clock is programmed in 24 hour format (e.g. 00:00-23:59).

P401E Real Time Clock Hour/Minute - Value 0-2359

P403E Real Time Clock Day of Week - Value 1-7 (where 1 = Sunday, 2 = Monday, 3 = Tuesday, etc)

P405E Real Time Clock Date - Value 1-31
P406E Real Time Clock Month - Value 1-12
P407E Real Time Clock Year - Value 0-99

Set Time HH:MM 18:23

# (Daylight Saving settings: NOT available in V8.64 panels and above)

The real time clock can have preset automatic adjustments for the start & finish of daylight saving if applicable. If a value of "0" is entered at addresses P408 & P411 then no daylight saving adjustments will apply. Otherwise set up the parameters for the country concerned and the adjustments will become automatic every year.

P408E Daylight Saving Start Sunday - Value 0-5 - Default = 1 (0=daylight saving start time disabled)

P409E Daylight Saving Start Month - Value 1-12 - Default = 10

**P410E** Daylight Saving Start Hour - Value 0-23 - Default = 2

**P411E** Daylight Saving End Sunday - Value 0-5 - Default = 3 (0=daylight saving end time disabled)

**P412E** Daylight Saving End Month - Value 1-12 - Default = 3

**P413E** Daylight Saving End Hour - Value 0-23 - Default = 3

When setting up a panel for the first time using daylight saving, you must ascertain whether daylight saving is currently ACTIVE. If it is you must enter in P414E then 1E to tell the panel that daylight saving is ON to sync the panel to daylight saving mode. If this is not done then when daylight saving finishes the panel will not adjust the clock.

P414E Daylight Saving is Active (If LED #1 is On, Daylight Saving is currently active)

### RESTORE FACTORY DEFAULTS

This address (P620E) is used to return the panel back to factory default settings.

P620E Restore Factory Defaults

Reset All Done

### RESTORING SELECTED DEFAULTS

P621E Restore User Codes to Default only.

P622E Restore all Program Addresses from 20-199 to Default

P623E Restore all Program Addresses from 200-399 to Default
P624E Restore all Program Addresses from 500-599 to Default
P625E Restore all Radio & Pendant codes to Default

Reset Addr 21-199 Done

### CLEAR ALARM MEMORY BUFFER

This address (P626E) is used to clear the panels alarm memory buffer.

P626E Clear Alarm Memory Buffer

Clear Mem Buffer Done

### **WALK TEST MODE**

This address (P627E) is used to enable walk-test mode while in installer program mode. By pressing P627E at the keypad, the keypad buzzer will beep at 1 second intervals to indicate walk-test mode is active. By walking past all of the detectors connected to the system and activating them, the associated zone light will latch up at the keypad to allow verification that all zones are working properly. By pressing the "Program" or "Enter" buttons, walk-test mode can be terminated and normal programming resumed.

Walk Test Mode

All Walk test activities will go into the event memory for display via the LCD keypad or LED keypad, in memory display mode

P627E Walk-test Mode

### WRITE TO EEPROM (DTU) BOARD

This address (P628E) is used to copy the panels program configuration to an external EPROM memory card (DTU-Data Transfer Unit) which can be plugged into the expansion socket on the control board.

P628E Write to EEPROM (DTU) Board

Write To EEPROM Done

### READ FROM EEPROM (DTU) BOARD

This address (P629E) is used to return the panels program configuration from an external EPROM memory card (DTU-Data Transfer Unit) which can be plugged into the expansion socket on the control board.

P629E Read from EEPROM (DTU) Board

Read fromEEPROM Done

### DIALER PROGRAMMING SECTION

The Dialer section of this alarm panel has many different programmable options. Some of these options require special function keys to select or program the options when entering telephone numbers or 4+2 codes. These special function keys and their corresponding keypad LED indications are listed in the following table.

LED KEYPAD BUTTON	LED KEYPAD INDICATION	LCD KEYPAD BUTTON	4+2 FUNCTION	TELEPHONE NUMBER SPECIAL FUNCTION
" <b>0</b> "	ARMED A	0	"0 or A"	N/A
"PANIC"	READY/BYP	CONTROL & 2	"B"	"#"
"MEMORY"	SYSTEM	CONTROL & 3	"C"	66+77
"CONTROL"	TROUBLE	CONTROL & 4	"D"	"2.5 sec Pause"
"ARM"	READY/BYP SYSTEM	CONTROL & 5	<b>"E</b> "	"Wait for 2nd Dial-tone"
"STAY"	READY/BYP	CONTROL & 6	"F"	"5 sec Pause"
	TROUBLE			

### DIALER PROGRAMMING OPTIONS

This address (P185E) is used to turn the dialer on and select other dialer related options.

Bell 103 or V21 - Default off

P185E	1E	Dialer is Enabled - Default on
	2E	Fax Defeat - Default on
	3E	Disable Telephone Line Monitoring - Default off
	4E	DTMF or Pulse Dialing - Default off (NOTE: Options 4 & 5 must be OFF for DTMF Dial)
	5E	DTMF or Reverse Pulse Dialing - Default off (NOTE: Options 4 & 5 must be OFF for DTMF Dial)
	6E	Spare - Default off
	7E	Auto-detect Modem - Default on

- Option 1 **Dialer is Enabled** If this option is turned off the dialer will be disabled. The option must be on to allow the dialer to make calls.
- Option 2 **Fax Defeat -** The panel can answer an in-coming call in two ways. The first is to set the auto-answer ring count to a convenient number (P249E) and let the phone ring until this number is reached at which time the panel will answer the call. The second method is to use fax defeat which entails calling the panel and letting it ring no more than 4 times, hanging up, then ringing back within 45 seconds. The panel will now answer the call on the first ring.
- Option 3 **Disable Telephone line Monitoring** If the panel is connected to a poor telephone line and the line failure alarm is appearing regularly, by turning this option on the panel will not do the line test.
- Option 4 **DTMF or Pulse Dial** If this option is On then the panel will dial using Normal Pulse Dialing format (eg the number 9 = 9 pulses) **NOTE: Options 4 & 5 must be OFF for DTMF Dial**
- Option 5 **DTMF or Reverse Pulse Dial -** If this option is On then the panel will dial using Reverse Pulse Dialing format (e.g. the number 9 = 1 pulse) **NOTE: Options 4 & 5 must be OFF for DTMF Dial**
- Option 6 Spare

8E

- Option 7 Auto-detect Modem If this option is on the panel will answer an in-coming call with the V21 acknowledge tone. If the modem does not respond within 5 seconds the panel will then generate the acknowledge tones for Bell 103 format. It will repeat this cycle twice and then hang-up if no communication with a modem is established.
- Option 8 **Bell 103 or V21 -** The dial up panel to PC link can be established using either Bell 103 or V21. If the auto-detect function at option 7 does not result in the best format for your modem then you can force the panel to only communicate in one format. If the LED is off the format is Bell 103, LED on means V21.

Dialer Options

### DIALER REPORTING OPTIONS "A"

This address (P186E) is used to enable or disable various alarm reports to the Dialer.

P186E 1E Report Duress Alarm - Default on Report Mains Fail - Default on

**3E** Report Battery Low - Default off

**4E** Report Radio Battery Low - Default **on** 

5E Report System Tamper - Default on6E Report Telephone line Failure - Default on

7E Report Supervised Radio Fault - Default on

**8E** Report Zone Inactivity Alarm - Default **on** 

Dialer Report 1

12 - 4 5 6 7 8

- Option 1 **Duress Alarm to Dialer -** If a duress alarm is created the panel can report the unsetting of the alarm under duress to a central monitoring company if this option is on.
- Option 2 **Report Mains Fail** If a mains failure is detected the panel can report this alarm to a central monitoring company if this option is on.
- Option 3 Report Battery Low If a battery low is detected the panel can report this alarm to a central monitoring company if this option is on.
- Option 4 Report Radio Battery Low If a Radio battery low is detected the panel can report this alarm to a central monitoring company if this option is on.
- Option 5 **Report System Tamper** If a control panel tamper is detected the panel can report this alarm to a central monitoring company if this option is on.
- Option 6 **Report Line Failure** If a telephone line failure is detected the panel can report this alarm to a central monitoring company if this option is on.
- Option 7 Report Supervised Radio Fault If a supervised radio device fails to report to the panel within a time then a radio failure is registered. If this option is turned on then the alarm will be reported to the monitoring company.
- Option 8 Report Zone Inactivity Alarm If a Zone is monitored for Inactivity (P150E) and the inactivity timer for that zone times out (P240E) an alarm will be generated. If this option is turned on then the alarm will be reported to the monitoring company.

### DIALER REPORTING OPTIONS "B"

This address (P187E) is used to enable or disable various alarm reports to the Dialer.

P187E 1E Report Keypad Panic Alarms - Default on

**2E** Report Keypad Manual Fire Alarms (4&6) - Default **on** 

**3E** Report Keypad Manual Medical Alarms (7&9) - Default **on** 

**4E** Spare

**5E** Spare

**6E** Spare

7E Spare 8E Spare Dialer Report 2

Option 1 Report Keypad Panic Alarms - If the single button "Panic" or the 2 button "1&3" Panic alarm features are enabled then turning this on option allows the Panic Alarm to be sent via the dialer to a monitoring

station.

- Report Keypad Fire Alarm If the 2 button "4&6" Fire alarm feature is enabled then turning this option Option 2 on allows the Fire Alarm to be sent via the dialer to a monitoring station.
- Report Keypad Fire Alarm If the 2 button "4&6" Fire alarm feature is enabled then turning this option Option 3 on allows the Fire Alarm to be sent via the dialer to a monitoring station.

# **DIALER REPORTING OPTIONS "C"**

This address (P188E) is used to enable or disable various alarm reports to the Dialer.

P188E 1E Report Arm/Disarm - Default on

2E Report Stay Mode Arm/Disarm - Default on

3E Report Disarm only after an Activation - Default off

4E Report Stay Mode Disarm only after an Activation - Default off

5E Report 24 Hour Alarms when set to Domestic/Voice mode - Default off

Send Arm immediately - Default off 6E

Send Zone alarms in Stay Mode - Default off **7E** 

Spare - Default off 8E

- Report Arm/Disarm If this option is on then all Arm/Disarm signals will be reported to a central Option 1 Monitoring Station if Contact ID or 4 + 2 is set as the reporting format.
- Option 2 Report Stay Mode Arm/Disarm - If this option is on then all Stay Mode Arm/Disarm signals will be reported to a central Monitoring Station if Contact ID or 4 + 2 is set as the reporting format.
- Option 3 Send unset after activation - If this option is on, the panel will not normally send an Arm/Disarm signal to the monitoring company, however, if a zone alarm occurs then the panel will send a Disarm following the disarming of the panel to show it has been turned off by a valid user.
- Option 4 Send Stay Mode unset after activation - If this option is on, the panel will not normally send a Stay Mode Arm/Disarm signal to the monitoring company, however, if a zone alarm occurs then the panel will send a Disarm and group bypass restore following the disarming of the panel to show it has been turned off by a valid user.
- Option 5 Report 24 Hour Alarms when set to Domestic/Voice mode - When the panel is set to send alarms via domestic or voice mode, NO alarms will normally be sent for 24 hour zones. If 24 hour alarms are required to be reported in Domestic/Voice mode then this option must be turned on.
- Option 6 Send Arm immediately - If this option is on, the arm report is sent immediately the panel is armed. If the option is turned off, the arm signal will be sent at the expiry of the exit delay timer.
- Option 7 Send Zone alarms in Stay Mode - If this option is on, any Stay Mode zone alarms will be reported via the dialer. If it is off, no Stay Mode zone alarms will be transmitted via the dialer.

Dialer Report 3
1 2 - - - - -

# KEYPAD LISTEN-IN OPTIONS

The panel provides the facilities to use the buzzer in the keypad as a speaker to listen to the call being made by the dialer. To use this feature a 5th wire must be connected between the panel and a keypad using the listen-in terminals.

P189E 1E Listen-in Enabled when dialing only and in Disarmed State - Default on

2F Listen-in Enabled when dialing only and in Armed State - Default on

3E Listen-in Enabled when dialing only and in Stay Mode - Default on

4E Listen-in Enabled through the entire call only in Disarmed state - Default on

5E	Listen-in Enabled through the entire call only in Armed State - Default on
6E	Listen-in Enabled through the entire call only in Stay Mode - Default on
7E	Listen-in Enabled when the panel answers a call - Default on
~=	Little Committee

**8E** Listen-in on at All Times - Default **off** 

Keypads Listen In 1 2 3 4 5 6 7 -

#### OUTPUT # 1 LISTEN-IN OPTIONS

The panel provides the facilities to use a horn speaker connected to Output 1 to listen to the call being made by the dialer. To use this feature a horn speaker MUST be connected to Output 1 and the output set for siren Mode (P31E Option 5).

P190E Listen-in Enabled when dialing only and in Disarmed State - Default off 2E Listen-in Enabled when dialing only and in Armed State - Default off 3E Listen-in Enabled when dialing only and in Stay Mode - Default off 4E Listen-in Enabled through the entire call only in Disarmed state - Default off 5E Listen-in Enabled through the entire call only in Armed State - Default off 6E Listen-in Enabled through the entire call only in Stay Mode - Default off **7E** Listen-in Enabled when the panel answers a call - Default off 8E Listen-in on at All Times - Default off

O/P 1 Listen In

#### PROGRAMMING TELEPHONE NUMBERS

The panel can be programmed with up 4 telephone numbers. The numbers can be up 16 digits long. Dial modifiers such as Pause can be programmed into the number sequence as per the chart below. See the table on page 38 for more information on the special telephone number characters/modifiers.

LED KEYPAD BUTTON	LCD KEYPAD BUTTON	FUNCTION TO BE PROGRAMMED	LED KEYPAD II INDICATION	<u>NDICATION</u>
"Panic" "Memory" "Control" "Arm" "Stay"	Control 2 Control 3 Control 4 Control 5 Control 6	# * 2.5 sec Pause Wait for 2nd Dial tone 5 sec Pause	READY/BYP SYSTEM TROUBLE READY/BYP & S READY/EXCL &	
P502E Telepho P503E Telepho	one # 1 - Value = 1 one # 2 - Value = 1 one # 3 - Value = 1 one # 4 - Value = 1	-16 digits -16 digits		Telephone No 3

# MAXIMUM RE-TRIES PER TELEPHONE NUMBER

The addresses (P245E-P248E) are used to select the maximum number of dial attempts the panel will make for each telephone number

P245E	Maximum Dial Attempts for Ph # 1 - Value 0-99 (Default = 3)	
P246E	Maximum Dial Attempts for Ph # 2 - Value 0-99 (Default = 3)	Retries Phone 3
P247E	Maximum Dial Attempts for Ph # 3 - Value 0-99 (Default = 3)	Retifes i florie 5
P248E	Maximum Dial Attempts for Ph # 4 - Value 0-99 (Default = 3)	3
		3

#### PROGRAMMING TELEPHONE NUMBER REPORT FORMAT

This block of addresses (P241E - P244E) are used to set the reporting format which will be sent when an alarm occurs for each of the telephone numbers.

P241E-Telephone #1 Options 1E Contact ID Domestic Dial (Default = 2)3E Pager 4E Voice Dialer 5E 4 + 2 (Pulsed) 10 pps (1400 hz Handshake, 1800 hz transmit Tone) 6E 4 + 2 (Pulsed) 10 pps (1400 hz Handshake, 1900 hz transmit Tone) 4 + 2 (Pulsed) 10 pps (2300 hz Handshake, 1800 hz transmit Tone) 7E 8E 4 + 2 (Pulsed) 10 pps (2300 hz Handshake, 1900 hz transmit Tone) 9E 4 + 2 (Pulsed) 20 pps (1400 hz Handshake, 1800 hz transmit Tone) **10E** 4 + 2 (Pulsed) 20 pps (1400 hz Handshake, 1900 hz transmit Tone) 4 + 2 (Pulsed) 20 pps (2300 hz Handshake, 1800 hz transmit Tone) **12E** 4 + 2 (Pulsed) 20 pps (2300 hz Handshake, 1900 hz transmit Tone) **13E** 4 + 2 DTMF

Phone 1 Format 2

- Option 1 **Contact ID** If this option is set for the telephone number, the panel will send a Contact ID message to a Monitoring Station.
- Option 2 **Domestic Dial** If this option is set for the telephone number, the panel is expecting to dial a residential telephone number when an alarm occurs. The message sent consists of a siren tone over the phone to PW-8 the person called that an alarm is in progress. The alarm can be cancelled by the person called by pressing any button on a touch tone phone during the quiet period. If the alarm is cancelled by a valid user code the dialer will stop any further calls. If the alarm is not reset or kissed off, the dialer will attempt to report the alarm/s again when the test time comes around. If you don't wish this to happen turn off all of the test days at P404E.
- Option 3 Pager Report alarm events using CROW "Pager" format. This format utilizes Telecoms' 026 pager network or other public subscriber networks, etc, to send numeric messages to a compatible pager. (NOTE: The client account number should not start with a "0")
- Option 4 Voice Dialer If the optional voice board is fitted to the panel then selecting this option for the telephone number will allow preset voice messages to be sent via the telephone following an alarm. If the alarm is not reset or kissed off, the dialer will attempt to report the alarm/s again when the test time comes around. If you don't wish this to happen turn off all of the test days at P404E.
- Option 5 **4 + 2 (10 pps) -** This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 1400 hz and the transmit tone from the panel will be at 1800hz at 10 pulses per second.
- Option 6 4 + 2 (10 pps) This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 1400 hz and the transmit tone from the panel will be at 1900hz at 10 pulses per second.
- Option 7 4 + 2 (10 pps) This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 2300 hz and the transmit tone from the panel will be at 1800hz at 10 pulses per second.
- Option 8 **4 + 2 (10 pps) -** This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 2300 hz and the transmit tone from the panel will be at 1900hz at 10 pulses per second.
- Option 9 4 + 2 (20 pps) This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 1400 hz and the transmit tone from the panel will be at 1800hz at 20 pulses per second.

- Option 10 4 + 2 (20 pps) This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 1400 hz and the transmit tone from the panel will be at 1900hz at 20 pulses per second.
- Option 11 4 + 2 (20 pps) This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 2300 hz and the transmit tone from the panel will be at 1800hz at 20 pulses per second
- Option 12 **4 + 2 (20 pps) -** This option transmits a 4 digit account code followed by a 2 digit event code to a central monitoring station. The handshake tone from the monitoring station must be 2300 hz and the transmit tone from the panel will be at 1900hz at 20 pulses per second.
- Option 13 4 + 2 (DTMF) This option transmits a 4 digit account code followed by a 2 digit event code plus a checksum using DTMF signals to a central monitoring station. The handshake tone from the monitoring station must be 1400 hz /2300 hz.

Note: P242E through P244E are as above but apply to Telephone # 2-4

#### PROGRAMMING TELEPHONE NUMBER REPORT OPTIONS

This block of addresses (P181E - P184E) are used to set the reporting options for each telephone number

P181E-Telephone #1 Options 1E Stop if Kissed Off - Default on

**2E** Stay Call Progress - Default **on** 

3E Blind Dial - Default off

**4E** Use Group Codes or Multiple Accounts - Default off

**5E** Send Restores - Default **on** 

**6E** Send test Call to Monitoring Station - Default off

**7E** Spare - Default off **8E** Spare - Default off

Tel 1 Options

- Option 1 Stop if Kissed Off– If this option is turned on for the telephone number, the dialer will stop sending the alarm if the signal is kissed off and will not proceed with any other telephone numbers for that event. If not kissed off the dialer will continue for the maximum dial re-tries then cease reporting the alarm. If the event is not kissed off and the maximum re-tries limit is reached then the event is marked as unsent and will be added to the next event that causes the dialer to report. If this option is not turned on, the dialer will send the event for the maximum re-tries count or until kissed off but it will then proceed with any other telephone numbers also programmed.
- Option 2 **Stay Call Progress** Stay call progress means that the dialer monitors the status of the dialing 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 3 **Blind Dial** When the dialer 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 dal 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 2 seconds after looping the line. (used where non standard or low level dial tone exists)
- Option 4 Use Separate Accounts or Group Number When sending an alarm using Contact ID, the panel can either send separate account codes to report the two partitions (the default setting LED 4 Off) or, use one account code (Partition A) and use the group number to identify the two partitions.
- Option 5 **Send Restores -** When an alarm is generated the panel automatically sends a restore when the alarm is reset. If the monitoring company does not want restores they may be turned off with this option.
- Option 6 **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.

Note: P182E through P184E are as above but applied to telephone numbers 2-4

# **CONTACT ID or 4+2 ACCOUNT CODES**

The account code is the 4 digit number that identifies the panel to the Monitoring Station. If send Group numbers is set for Contact ID then the account number used is Partition "A". The special characters B,C,D,E & F can be entered at these addresses if required (see the table on page 35 for instructions).

P506E Account Code For Partition "A" - Value = 4 character code (Default = 0000)
P507E Account Code For Partition "B" - Value = 4 character code (Default = 0000)

Account No B

# ZONE CONTACT ID CODE

This block of addresses (P321E - P328E) are used to set the Contact ID code that a Zone will transmit in an alarm. If a value of "0" or the "Bypass" button is entered at any of these addresses then the zone will not report via the Dialer.

P321E	Zone # 1 Contact ID Code - 3 Digit Number (Default = 130)
P322E	Zone # 2 Contact ID Code - 3 Digit Number (Default = 130)
P323E	Zone # 3 Contact ID Code - 3 Digit Number (Default = 130)
P324E	Zone # 4 Contact ID Code - 3 Digit Number (Default = 130)
P325E	Zone # 5 Contact ID Code - 3 Digit Number (Default = 130)
P326E	Zone # 6 Contact ID Code - 3 Digit Number (Default = 130)
P327E	Zone # 7 Contact ID Code - 3 Digit Number (Default = 130)
P328E	Zone # 8 Contact ID Code - 3 Digit Number (Default = 130)

CID for Zone1

130

# PANIC ALARM CONTACT ID CODE

This address (P329E) is used to set the Contact ID code that a Keypad "Panic" or "1&3" alarm will transmit.

**P329E** Keypad Panic Alarm Contact ID Code - 3 Digit Number (Default = 120)

CID for Panic 120

# FIRE ALARM CONTACT ID CODE

This address (P330E) is used to set the Contact ID code that a Keypad Fire "4&6" alarm will transmit.

P330E Keypad Fire Alarm Contact ID Code - 3 Digit Number (Default = 110)

CID for Fire

#### MEDICAL ALARM CONTACT ID CODE

This address (P331E) is used to set the Contact ID code that a Keypad Medical "7&9" alarm will transmit.

CID for Medic 100

#### PROGRAMMING DIALER 4 + 2 REPORTING CODES

The dialer is capable of reporting most events in 4+2 format to a monitoring station. There are various 4+2 formats (see telephone mode options on page 39). The 4+2 format consists of a 4 character account code, plus a 2 character event code. The account & event codes can be any combination of the values 1234567890BCDEF (see programming chart on page 35). If a value of "00" is programmed into any 4+2 address (or the "Bypass" key is entered at a selected 4+2 address) then no report will be generated for that event.

# ZONE ALARM 4 + 2 REPORTING CODE

This block of addresses (P511E - P518E) are used to set the 4 + 2 code that a Zone will transmit in an alarm.

```
P511E
           Zone # 1 4 + 2 Code - 2 Digit Number (Default = 01)
P512E
           Zone # 2 4 + 2 Code - 2 Digit Number (Default = 02)
                                                                              4+2 Alarm Zone 1
           Zone # 3 4 + 2 Code - 2 Digit Number (Default = 03)
P513E
           Zone # 4 4 + 2 Code - 2 Digit Number (Default = 04)
P514E
                                                                              A1
           Zone # 5 4 + 2 Code - 2 Digit Number (Default = 05)
P515E
           Zone # 6 4 + 2 Code - 2 Digit Number (Default = 06)
P516E
           Zone # 7 4 + 2 Code - 2 Digit Number (Default = 07)
P517E
           Zone #8 4 + 2 Code - 2 Digit Number (Default = 08)
P518E
```

#### ZONE ALARM 4 + 2 RESTORE CODE

This block of addresses (P521E - P528E) are used to set the 4 + 2 code that a Zone will transmit when it is restored following an alarm.

```
P521E
           Zone # 1 4 + 2 Code - 2 Digit Number (Default = 11)
           Zone # 2 4 + 2 Code - 2 Digit Number (Default = 12)
P522E
           Zone #3 4 + 2 Code - 2 Digit Number (Default = 13)
P523E
                                                                             4+2 Restr Zone 1
P524E
           Zone # 4 4 + 2 Code - 2 Digit Number (Default = 14)
           Zone # 5 4 + 2 Code - 2 Digit Number (Default = 15)
P525E
                                                                              11
           Zone # 6 4 + 2 Code - 2 Digit Number (Default = 16)
P526E
           Zone #7 4 + 2 Code - 2 Digit Number (Default = 17)
P527E
           Zone #8 4 + 2 Code - 2 Digit Number (Default = 18)
P528F
```

#### ZONE BYPASSED 4 + 2 CODE

This block of addresses (P581E - P588E) are used to set the 4 + 2 code that a Zone will transmit if it is manually or automatically excluded at the time of Arming.

```
P581E
           Zone # 1 Bypassed 4 + 2 Code - 2 Digit Number (Default = 21)
P582E
           Zone # 2 Bypassed 4 + 2 Code - 2 Digit Number (Default = 22)
           Zone # 3 Bypassed 4 + 2 Code - 2 Digit Number (Default = 23)
P583E
           Zone # 4 Bypassed 4 + 2 Code - 2 Digit Number (Default = 24)
P584E
                                                                             4+2 Byp Zone 1
P585E
           Zone # 5 Bypassed 4 + 2 Code - 2 Digit Number (Default = 25)
P586E
           Zone # 6 Bypassed 4 + 2 Code - 2 Digit Number (Default = 26)
                                                                             21
P587E
           Zone # 7 Bypassed 4 + 2 Code - 2 Digit Number (Default = 27)
P588E
           Zone # 8 Bypassed 4 + 2 Code - 2 Digit Number (Default = 28)
```

# **ZONE BYPASSE RESTORE 4 + 2 CODE**

This block of addresses (P591E - P598E) are used to set the 4 + 2 code that a Zone will transmit if a manual or automatic exclusion has been restored.

```
P591E Zone # 1 Bypass Restore 4 + 2 Code - 2 Digit Number (Default = 31)
```

```
P592E Zone # 2 Bypass Restore 4 + 2 Code - 2 Digit Number (Default = 32)
P593E Zone # 3 Bypass Restore 4 + 2 Code - 2 Digit Number (Default = 33)
P594E Zone # 4 Bypass Restore 4 + 2 Code - 2 Digit Number (Default = 34)
P595E Zone # 5 Bypass Restore 4 + 2 Code - 2 Digit Number (Default = 35)
P596E Zone # 6 Bypass Restore 4 + 2 Code - 2 Digit Number (Default = 36)
P597E Zone # 7 Bypass Restore 4 + 2 Code - 2 Digit Number (Default = 37)
P598E Zone # 8 Bypass Restore 4 + 2 Code - 2 Digit Number (Default = 38)
```

4+2BypRestZone1
31

# MISCELLANEOUS 4 + 2 REPORTING CODES

This block of addresses are used to set the 4 + 2 code for Miscellaneous reporting functions

```
System Tamper 4 + 2 Code - 2 Digit Number (Default = 86)
P519E
P531E
           Panic Alarm 4 + 2 Code - 2 Digit Number (Default = 88)
P532E
           Fire Alarm 4 + 2 Code - 2 Digit Number (Default = 89)
P533E
           Medical Alarm 4 + 2 Code - 2 Digit Number (Default = 90)
P537E
           Low Battery 4 + 2 Code - 2 Digit Number (Default = 94)
                                                                             4+2 Low Battery
P538E
           Mains Failure 4 + 2 Code - 2 Digit Number (Default = 95)
                                                                             94
P590E
           Automatic Test 4 + 2 Code - 2 Digit Number (Default = 85)
```

#### MISCELLANEOUS 4 + 2 RESTORE CODES

This block of addresses are used to set the 4 + 2 code for Miscellaneous restore reporting functions

```
P529E System Tamper Restore 4 + 2 Code - 2 Digit Number (Default = 87)

P534E Panic Alarm Restore 4 + 2 Code - 2 Digit Number (Default = 91)

P535E Fire Alarm Restore 4 + 2 Code - 2 Digit Number (Default = 92)

P536E Medical Alarm Restore 4 + 2 Code - 2 Digit Number (Default = 93)

P539E Low Battery Restore 4 + 2 Code - 2 Digit Number (Default = 96)

P540E Mains Failure Restore 4 + 2 Code - 2 Digit Number (Default = 97)

92
```

#### ARMED BY USER 4 + 2 CODE

This block of addresses are used to set the 4 + 2 code that will transmitted each time an individual User Arms the alarm system.

```
Armed by User # 1 4 + 2 Code - 2 Digit Number (Default = 41)
P541E
            Armed by User # 2 4 + 2 Code - 2 Digit Number (Default = 42)
P542E
            Armed by User # 3 4 + 2 Code - 2 Digit Number (Default = 43)
P543E
            Armed by User # 4 4 + 2 Code - 2 Digit Number (Default = 44)
P544E
            Armed by User # 5 4 + 2 Code - 2 Digit Number (Default = 45)
P545E
            Armed by User # 6 4 + 2 Code - 2 Digit Number (Default = 46)
P546E
            Armed by User # 7 4 + 2 Code - 2 Digit Number (Default = 47)
P547E
            Armed by User # 8 4 + 2 Code - 2 Digit Number (Default = 48)
P548E
            Armed by User # 9 4 + 2 Code - 2 Digit Number (Default = 49)
P548E
                                                                              41
            Armed by User #10 4 + 2 Code - 2 Digit Number (Default = 50)
P550E
```

4+2 Arm User 1 41 P569E Armed by "ARM" Button or Key-switch 4 + 2 Code - 2 Digit Number (Default = 81)

P570E Stay Mode Arming 4 + 2 Code - 2 Digit Number (Default = 82)

#### DISARMED BY USER 4 + 2 CODE

This block of addresses are used to set the 4 + 2 code that will transmitted each time an individual User Disarms the alarm system.

```
P551E
           Disarmed by User # 1 4 + 2 Code - 2 Digit Number (Default = 51)
P552E
           Disarmed by User # 2 4 + 2 Code - 2 Digit Number (Default = 52)
           Disarmed by User # 3 4 + 2 Code - 2 Digit Number (Default = 53)
P553E
           Disarmed by User # 4 4 + 2 Code - 2 Digit Number (Default = 54)
P554E
           Disarmed by User # 5 4 + 2 Code - 2 Digit Number (Default = 55)
P555E
           Disarmed by User # 6 4 + 2 Code - 2 Digit Number (Default = 56)
P556E
           Disarmed by User # 7 4 + 2 Code - 2 Digit Number (Default = 57)
P557E
           Disarmed by User #8 4 + 2 Code - 2 Digit Number (Default = 58)
P558E
           Disarmed by User # 9 4 + 2 Code - 2 Digit Number (Default = 59)
P559E
           Disarmed by User #10 4 + 2 Code - 2 Digit Number (Default = 60)
P560E
           Disarmed by "Arm" Button or Key-switch 4 + 2 Code - 2 Digit Number (Default = 83)
P579E
```

4+2 DisArm User1 51

# ARMED BY RADIO USER 4 + 2 CODE

This block of addresses are used to set the 4 + 2 code that will transmitted each time an individual User Arms the alarm system via there Radio Key.

```
P561E
           Armed by Radio User # 1 4 + 2 Code - 2 Digit Number (Default = 61)
P562E
           Armed by Radio User # 2 4 + 2 Code - 2 Digit Number (Default = 62)
P563E
           Armed by Radio User # 3 4 + 2 Code - 2 Digit Number (Default = 63)
P564E
           Armed by Radio User # 4 4 + 2 Code - 2 Digit Number (Default = 64)
P565E
           Armed by Radio User # 5 4 + 2 Code - 2 Digit Number (Default = 65)
P566E
           Armed by Radio User # 6 4 + 2 Code - 2 Digit Number (Default = 66)
P567E
           Armed by Radio User # 7 4 + 2 Code - 2 Digit Number (Default = 67)
           Armed by Radio User #8 4 + 2 Code - 2 Digit Number (Default = 68)
P568E
```

4+2RadioArmUser 61

# **DISARMED BY RADIO USER 4 + 2 CODE**

This block of addresses are used to set the 4 + 2 code that will transmitted each time an individual User Disarms the alarm system via there Radio Key.

```
Disarmed by Radio User # 1 4 + 2 Code - 2 Digit Number (Default = 71)
P571E
P572E
           Disarmed by Radio User # 2 4 + 2 Code - 2 Digit Number (Default = 72)
P573E
           Disarmed by Radio User #3 4 + 2 Code - 2 Digit Number (Default = 73)
P574E
           Disarmed by Radio User # 4 4 + 2 Code - 2 Digit Number (Default = 74)
P575E
           Disarmed by Radio User # 5 4 + 2 Code - 2 Digit Number (Default = 75)
           Disarmed by Radio User # 6 4 + 2 Code - 2 Digit Number (Default = 76)
P576E
           Disarmed by Radio User #7 4 + 2 Code - 2 Digit Number (Default = 77)
P577E
           Disarmed by Radio User #8 4 + 2 Code - 2 Digit Number (Default = 78)
P578E
```

4+2RadioArmUser 71

# DISARMED UNDER DURESS 4 + 2 CODE

This address is used to set the 4 + 2 code that will transmitted if the alarm system is disarmed under duress. **P580E** Duress Alarm 4 + 2 Code - 2 Digit Number (Default = 84)

#### PROGRAMMING VOICE BOARD MESSAGES

This block of addresses (P251E - P258E) are used to select a voice message that a Zone will transmit in an alarm. For this option to work the optional Voice Board Must be fitted. If a value of "0" or the "Bypass" button is entered at any of these addresses then the zone will not report via the Dialer in either **Voice or Domestic** modes.

P251E Zone 1 Voice Message Number - (Default = 1) Value= 0-99
P252E Zone 2 Voice Message Number - (Default = 1)
P253E Zone 3 Voice Message Number - (Default = 1)
P254E Zone 4 Voice Message Number - (Default = 1)
P255E Zone 5 Voice Message Number - (Default = 1)
P256E Zone 6 Voice Message Number - (Default = 1)
P257E Zone 7 Voice Message Number - (Default = 1)
P258E Zone 8 Voice Message Number - (Default = 1)

Zone 4 Msg No

# MISCELLANEOUS VOICE BOARD MESSAGES

This block of addresses (P259E - P262E) are used to select a voice message that various Alarms will transmit via the dialer. For this option to work the optional Voice Board Must be fitted. If a value of "0" or the "Bypass" button is entered at any of these addresses then the alarm will not report via the Dialer in either **Voice or Domestic** modes.

**P259E** Panic Alarm Voice Message Number - (Default = 1) Value= 0-99

P260E Fire Alarm Voice Message Number - (Default = 1)

P261E Medical Alarm Voice Message Number - (Default = 1)
P262E Battery Low Voice Message Number - (Default = 1)

Medic Msg No

1

# START MESSAGE NUMBER FOR DTMF CONTROL

This address (P250E) sets the start message for the DTMF remote control messages. The remote control messages are set in a fixed sequence (refer to the addendum sheet supplied with the 90 second voice board for this list). If the voice board is being used to indicate alarms using voice messages and DTMF remote control is also being used, the alarm messages must be recorded first. When all alarm messages have been recorded you can then record the remote control messages eg if you have 9 alarm messages recorded before the remote control messages, the value entered at this address must be 10. A value other than "0" must be entered at this address for the function to work.

P250E Start of DTMF Remote Control Messages - (Default = 0) Value= 0-99

Start of Msgs

U

# DTMF REMOTE CONTROL CODES

This block of addresses (P334E - P337E) are used to program the 4 digit DTMF Remote Control Codes. These codes allow a valid user to set or unset the alarm, turn outputs On or Off or enable the microphone input from a remote telephone. Please refer to the User Operating guide or the addendum sheet supplied with the voice board for the full operational sequence.

P334E Remote Control Code for Area "A" - (Default = 0)
P335E Remote Control Code for Area "B" - (Default = 0)
P336E Remote Control Code for Output Control - (Default = 0)
P337E Remote Control Code to Enable the Microphone Input -

DTMF control A

0

(Default = 0)

#### **AUTO-ANSWER RING COUNT**

The auto-answer ring count is the number of rings the panel must count before answering an in-coming call. For Fax defeat to work the auto-answer ring count must be set to a number other than "0". (typically 25 rings)

P249E Auto-answer Ring Count - Value 0-99 (0= Auto-answer disabled) - Default = 8

#### MAINS FAIL REPORTING DELAY

This address (P319E) is used to set a timer that delays the reporting of Mains Failure to a Monitoring Station. If the mains voltage returns before the timer expires then no report is sent.

P319E Mains Failure Report Delay - Value 0-9999 Seconds (Default = 600)

Mains Fail Report 600

#### SETTING DIALER TEST REPORT PARAMETERS

This option sets the days of the week and the time when an automatic test report is sent to a central monitoring station. PLEASE NOTE: If daylight saving adjustments are set (P408-P413) do not set the value at P402 to be a value between 1-3 am otherwise unwanted results will occur at the start & finish of daylight saving. Also, if a Domestic or Voice mode alarm is initiated but not reset or kissed off, when the test time comes around the dialer will attempt to report the event/s again. To prevent this from happening, turn off ALL days at P404E.

P402E Automatic Test Report Hour/Minute - Value 0-2359

**P404E** Automatic Test Report Day/s of Week - Value 1-7 (where 1 = Sunday, 2 = Monday, 3 = Tuesday, etc)

#### UPLOAD/DOWNLOAD SITE CODE NUMBER

The upload/download site code number must be entered if the panel is set for auto-answer as this provides a security access level to the panel. The number can be up to 8 characters in length. Valid characters for this number are 0-9, B-F (refer to the chart on page 35).

P505E Site Code Number - 8 characters

Up/Dn Security C

# PW-8 PROGRAM SUMMARY GUIDE

The following program summary is an abbreviated version of all the PW-8 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 Dialer are not necessarily grouped together. To identify Dialer options each heading relating to the Dialer are highlighted by an "\*\*" either side of the heading.

# **Programming User Codes**

P1E	User Code # 1 - Default = 123 (If erased by mistake the code will default to 987654)	Page 13
P2E	User Code # 2	Page 13
P3E	User Code # 3	Page 13
P4E	User Code # 4	Page 13
P5E	User Code # 5	Page 13
P6E	User Code # 6	Page 13
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 - Installer Code ( Default = 000000)	Page 13

# **User Code Options**

P21E	User Options Code # 1 (Default 1-8)	P21E-P30E Options	Page 14
P22E	User Options Code # 2 (Default 1-6)	1 = Assigned to Area "A"	Page 14
P23E	User Options Code # 3 (Default 1-6)	2 = Assigned to Area "B"	Page 14
P24E	User Options Code # 4 (Default 1-6)	3 = Code can Arm Area	Page 14
P25E	User Options Code # 5 (Default 1-6)	4 = Code can Disarm Area	Page 14
P26E	User Options Code # 6 (Default 1-6)	5 = Code can arm Stay Mode	Page 14
P27E	User Options Code # 7 (Default 1-6)	6 = Code can disarm Stay Mode	Page 14
P28E	User Options Code # 8 (Default 1-6)	7 = User can Change their Code	Page 14
P29E	User Options Code # 9 (Default 1-6)	8 = User can Change Codes 1-10	Page 14
P30E	User Options Code # 10 (Default 1-6)		Page 14

# Programming Output Options "A"

P31	E Options for Output # 1 (Default None)	P31E-P34E Options	Page 14
P32	E Options for Output # 2 (Default None)	1 = Invert Output	
P33	E Options for Output # 3 (Default None)	2 = Flash Output	
P34	E Options for Output # 4 (Default 1 )	3 = Single Pulse to Output	
P35	E Options for Output # 5 (Default None)	4 = Lockout Output	
P36	E Options for Output # 6 (Default None)	5 = Siren Driver to output	
P37	E Options for Output # 7 (Default None)	6 = "Control" button & DTMF Remote Control can ope	rate O/P
P38	E Options for Output # 8(Default None)	7 = Output Flashes on 24 Hour Alarm	
		8 = Day zones linked to Pulse Timer (Chime)	

# Programming Output Options "B"

P41E	Options for Output # 1 (Default 1,2,5)	P41E-P48E Options	Page 15
P42E	Options for Output # 2 (Default 1,2,5)	1 = Pendant Panic to Output	
P43E	Options for Output # 3 (Default None)	2 = Keypad Panic to Output	
P44E	Options for Output # 4 (Default None)	3 = Keypad Fire to Output	
P45E	Options for Output # 5 (Default None)	4 = Keypad Medical to output	
P46E	Options for Output # 6 (Default None)	5 = System Tamper to Output	

P47E P48E	Options for Output # 7 (Default None) Options for Output # 8 (Default None)	6 = Duress Alarm to Output 7 = Mains Fail to Output 8 = Battery Low to output	
Мар	ping Zone Alarms To Ou	tputs	
P51E P52E P53E P54E P55E P56E P57E P58E	Normal Zone Alarms 1-8 to Output # 1 Normal Zone Alarms 1-8 to Output # 2 Normal Zone Alarms 1-8 to Output # 3 Normal Zone Alarms 1-8 to Output # 4 Normal Zone Alarms 1-8 to Output # 5 Normal Zone Alarms 1-8 to Output # 6 Normal Zone Alarms 1-8 to Output # 7 Normal Zone Alarms 1-8 to Output # 8	(Default= All Zones) (Default= None) (Default= None) (Default= None) (Default= None) (Default= None) (Default= None)	Page 16 Page 16 Page 16 Page 16 Page 16 Page 16 Page 16
Мар	ping Stay Zone Alarms 7	Γο Outputs	
P61E P62E P63E P64E P65E P66E P67E P68E	Stay Mode Zone Alarms 1-8 to Output a Stay Mode Zone Alarms 1-8 to Output a	# 2 (Default= All Zones) # 3 (Default= None) # 4 (Default= None) # 5 (Default= None) # 6 (Default= None) # 7 (Default= None)	Page 16 Page 16 Page 16 Page 16 Page 16 Page 16 Page 16
Мар	ping 24 Hour Zone Alarn	ns To Outputs	
P71E P72E P73E P74E P75E P76E P77E P78E	24 Hour Zone Alarms 1-8 to Output # 1 24 Hour Zone Alarms 1-8 to Output # 2 24 Hour Zone Alarms 1-8 to Output # 3 24 Hour Zone Alarms 1-8 to Output # 4 24 Hour Zone Alarms 1-8 to Output # 5 24 Hour Zone Alarms 1-8 to Output # 6 24 Hour Zone Alarms 1-8 to Output # 7 24 Hour Zone Alarms 1-8 to Output # 8	(Default= All Zones) (Default= None) (Default= None) (Default= None) (Default= None) (Default= None) (Default= None)	Page 16 Page 16 Page 16 Page 16 Page 16 Page 17 Page 17
Мар	ping Day Zones ( CHIME	E ) To Outputs	
P81E P82E P83E P84E P85E P86E P87E P88E	Day Zones 1-8 to Output # 1 (Default= Day Zones 1-8 to Output # 2 (Default= Day Zones 1-8 to Output # 3 (Default= Day Zones 1-8 to Output # 4 (Default= Day Zones 1-8 to Output # 5 (Default= Day Zones 1-8 to Output # 6 (Default= Day Zones 1-8 to Output # 7 (Default= Day Zones 1-8 to Output # 8 (Default=	None) None) None) None) None) None)	Page 17
Мар	ping Zone Tampers To C	Outputs	
P91E P92E P93E	Zone Tamper 1-8 to Output # 1 (Default Zone Tamper 1-8 to Output # 2 (Default Zone Tamper 1-8 to Output # 3 (Default Zone Tamper 1-8 to	t= 1-8)	Page 17 Page 17 Page 17

P94E P95E P96E P97E P98E	Zone Tamper 1-8 to Output # 4 (D Zone Tamper 1-8 to Output # 5 (D Zone Tamper 1-8 to Output # 6 (D Zone Tamper 1-8 to Output # 7 (D Zone Tamper 1-8 to Output # 8 (D	efault= None) efault= None) efault= None)			Page 17 Page 17 Page 17 Page 17 Page 17
		Mapping	Radio Ke	eys To	Outputs
P102E P103E P104E P105E P106E P107E	Radio Key 1-8 to Output # 1 (Defa Radio Key 1-8 to Output # 2 (Defa Radio Key 1-8 to Output # 3 (Defa Radio Key 1-8 to Output # 4 (Defa Radio Key 1-8 to Output # 5 (Defa Radio Key 1-8 to Output # 6 (Defa Radio Key 1-8 to Output # 7 (Defa Radio Key 1-8 to Output # 8 (Defa	ult= None) ult= None) ult= None) ult= None) ult= None) ult= None)			Page 17
		Ter	mporary	Output	Disable
P109E	Temporary Output Disable - Outp	out 1-8			Page 18
			Partiti	ion "A"	Options
	t= 4 & 5)	P110E Options  1 = Arm Button Required Before 2 = Stay Button Required Before 3 = Code required to Set 4 = Arm Button can disarm durir 5 = Stay Button can disarm Stay 6 = No Exit beeps to Keypads in 7 = Enable Key-switch 8 = Key-switch Mode	e Code to Set S ng Exit Delay y Mode at any t	·	Page 18
		Partit	tion "A" (	Output	Options
P112E P113E P114E P115E P116E P117E	Area "A" Opt. O/P # 1 (Default= N Area "A" Opt. O/P # 2 (Default= N Area "A" Opt. O/P # 3 (Default= 18 Area "A" Opt. O/P # 4 (Default= 7) Area "A" Opt. O/P # 5 (Default= N Area "A" Opt. O/P # 6 (Default= N Area "A" Opt. O/P # 7 (Default= N Area "A" Opt. O/P # 8 (Default= N	2 = Arm Status to Output 2 = Stay Arm Status to Output 3 = Disarm Status to Output 3 = Disarm Status to Output 4 = Pendant Chirps on Ar 5 = Pendant Chirps on Status 5 = Pendant Chirps on Di	out rm cay Mode Arm isarming utput		Page 19
			Partiti	ion "B"	Options
	t= 4 & 5)	P120E Options  1 = Arm Button Required Before 2 = Stay Button Required Before 3 = Code required to Set 4 = Arm Button can disarm durir 5 = Stay Button can disarm Stay 6 = No Exit beeps to Keypads in 7 = Enable Key-switch 8 = Key-switch Mode	e Code to Set S ng Exit Delay y Mode at any t		Page 20

#### Partition "B" Output Options P121E Area "B" Opt. O/P # 1 (Default= None) P121E-P128E Options P122E Area "B" Opt. O/P # 2 (Default= None) P123E Area "B" Opt. O/P # 3 (Default= None) P124E Area "B" Opt. O/P # 4 (Default= 7) P125E Area "B" Opt. O/P # 5 (Default= None) P126E Area "B" Opt. O/P # 6 (Default= None) P127E Area "B" Opt. O/P # 6 (Default= None) P128E Area "B" Opt. O/P # 7 (Default= None) P128E Area "B" Opt. O/P # 8 (Default= None) P128E Area "B" Opt. O/P # 8 (Default= None) P128E Area "B" Opt. O/P # 8 (Default= None) P128E Area "B" Opt. O/P # 8 (Default= None) P128E Area "B" Opt. O/P # 8 (Default= None) P128E Area "B" Opt. O/P # 8 (Default= None) P128E Area "B" Opt. O/P # 8 (Default= None) P128E Area "B" Opt. O/P # 8 (Default= None) Page 20 8 = Pulse on Disarming to Output **Programming Zone EOL Options** P130E Zone EOL Options - Value 1-8 (Default = OFF) Page 21 \*\*Programming Zone Options\*\* Page 23 P129E 24 Hour Fire Zone Zones 1-8 ( Default = No zones) Page 22 P131E Partition "A" Zones Zones 1-8 ( Default = All zones) P132E Partition "B" Zones P133E Zone is NC or NO Zones 1-8 ( Default = No zones) Page 22 Zones 1-8 ( Default = All zones are NC) Page 22 Page 22 P134E Radio Zone Input Zones 1-8 ( Default = No zones) P135E Manually Bypass Zone P136E Auto-Bypass Zone P137E Handover Zone Zones 1-8 ( Default = All zones) Page 22 Zones 1-8 ( Default = No zones) Page 22 Zones 1-8 ( Default = Zone 2) Page 22 P138E Two Trigger Zone P139E Stay Mode Zone P140E 24 Hour Zone Zones 1-8 ( Default = No zones) Page 22 Zones 1-8 ( Default = Zone 1) Page 22 Zones 1-8 ( Default = No zones) Page 23 P141E Non-Latching 24 Hour Zone Zones 1-8 ( Default = No zones) Page 23 P142E Lockout Zone Zones 1-8 ( Default = No zones) Page 23 P143E Day Zone ( CHIME ) Zones 1-8 ( Default = No zones) Page 23 P144E Permanent Day Zone (CHIME) Zones 1-8 ( Default = No zones) Page 23 P145E Can Arm if not Sealed Zones 1-8 ( Default = No zones) Page 23 P146E Report excludes to Dialer Zones 1-8 ( Default = All zones) Page 23 P147E Multiple Alarms to Dialer Zones 1-8 ( Default = All zones) Page 23 Page 23 P148E Report Zone Tampers to Dialer Zones 1-8 ( Default = All zones) P149E Zones Report to Area B Account Zones 1-8 ( Default = No zones) Page 23 P150E Zones with Inactivity Timer Zones 1-8 ( Default = No zones) Page 23 Radio Pendant Options "A" Page 28 P151E Radio Key # 1 Opt (Default= 1,3,4) P151E-P158E Options P152E Radio Key # 2 Opt (Default= 1,3,4) 1 = Assigned to Area "A" Page 28 P153E Radio Key # 3 Opt (Default= 1,3,4) 2 = Assigned to Area "B" Page 28 P154E Radio Key # 4 Opt (Default= 1,3,4) 3 = Can Arm Area Page 28 P155E Radio Key # 5 Opt (Default= 1,3,4) 4 = Can Disarm Area Page 28 P156E Radio Key # 6 Opt (Default= 1,3,4) 5 = Can arm Stay Mode Page 28 P157E Radio Key # 7 Opt (Default= 1,3,4) 6 = Can disarm Stay Mode Page 28 P158E Radio Key # 8 Opt (Default= 1,3,4) 7 = Spare Page 28 8 = Disabled if Panel is in Alarm \*\*Radio Pendant Options "B"\*\* P161E Radio Key # 1 Options (Default= None) P161E-P168E Options Page 28 P162E Radio Key # 2 Options (Default= None) 1 = Pendant Can Turn Output On Page 28 P163E Radio Key # 3 Options (Default= None) 2 = Pendant Can Turn Output Off Page 28 P164E Radio Key # 4 Options (Default= None) 3 = Visonic Powercode Battery Low Page 28

P167E Radio Key # 7 Options (Default	None) 5 = Send Panic Alarm Through Dialer	Page 28 Page 28 Page 28 Page 28
	Miscellaneous Panel Option	ons # 1
P169E Misc. Panel Options # 1 (Default= 3)	P169E Options  1 = Turn KP LED's when Armed  2 = Keypad "Panic" Button instant or delayed  3 = Direct access to program mode for the installer code.	Page 31
	Miscellaneous Panel Option	ons # 2
P170E Misc. Panel Options (Default= 4,7)	P170E Options  1 = Panel Tamper NC or EOL  2 = Installer Lockout  3 = Disable Mains Fail Test  4 = Arm only if sealed  5 = No audible keypad beep on supervised radio fault  6 = No audible keypad beep on Zone Inactivity Timeout  7 = "Control" Button Disables Day Zones  8 = Silent 24 Hour Zone (No Keypad Beep)	Page 32
	Keypad Partition Ass	ignment
	"A" - Value Keypad 1-8 (Default= All Keypads) "B" - Value Keypad 1-8 (Default= No Keypads)	Page 29 Page 29
	Keypads with Panic Button	Enabled
P173E Keypads with Panic Button Ena	bled - Value Keypad 1-8 (Default= All Keypads)	Page 29
Keypads Pa	nic (1&3) or (CHIME&CONTROL)	Enabled
P174E Keypads panic 1 & 3 or CHIME&	CONTROL Enabled - Value Keypad 1-8 (Default= No Key	pads) Page 30
Keypad	and Radio Panic Beeps to Keypad	Enabled
P175E Keypad & Radio Panic Beeps to	Keypad Enabled - Value Keypad 1-8 (Default= All Keypad	<b>ds)</b> Page 30
K	eypads Fire (4&6) or (CHIME&B)	Enabled
P176E Keypads FIRE 4 & 6 or CHIME8	B Enabled - Value Keypad 1-8 (Default= No Keypads)	Page 30
P177E Fire Beep to Keypad Enabled -	Fire Beep to Keypad I Value Keypad 1-8 (Default= No Keypads)	E <b>nabled</b> Page 30

## Keypads Medical (7&9) or (A&B) Enabled

P178E Keypads Medical 7 & 9 or A&B Function Enabled - Value Keypad 1-8 (Default= No Keypads) Page 31

P179E Medical Beep to Keypad Enabled - Value Keypad 1-8 (Default= No Keypads) Page 31

#### Stay Button can Disarm when in Stay Mode Enabled

P180E Stay Button can Disarm when in Stay Mode - Value Keypad 1-8 (Default 1 & 4) Page 31

# \*\*Telephone Number Reporting Options\*\*

P181E Options for Telephone # 1	P181E-P184E Options (Default =1,2,5)	Page 40
P182E Options for Telephone # 2	1 = Stop Dialing if Kissed off	Page 40
P183E Options for Telephone # 3	2 = Stay Call Progress	Page 40
P184E Options for Telephone # 4	3 = Blind Dial	Page 40
	4 = Use Group Numbers for Contact ID	
	F - Sand Pactores	

5 = Send Restores 6 = Send Test Calls 7 = Spare

7 = Spare 8 = Spare

# \*\*Dialer Programming Options\*\*

P185E Dialer options P185E Options (Default =1,2, 7) Page 35

1 = Dialer is Enabled 2 = Fax Defeat

3 = Disable Telephone Line Monitoring

4 = DTMF or Pulse Dial (For DTMF, 4&5 must both be OFF)

5 = DTMF or Reverse Pulse Dial (For DTMF, 4&5 must both be OFF)

6 = Spare

7 = Auto Detect Modem Mode

8 = Bell 103 or V21

#### \*\*Dialer Reporting Options "A"\*\*

P186E Dialer Options "A" P186E Options (Default = 1,2,4,5,6,7,8) Page 36

1 = Report Duress Alarm
2 = Report Mains Fail
3 = Report Battery low
4 = Report Radio Battery Low
5 = Report system Tamper
6 = Report Line Fail

7 = Report Supervised Radio Alarm 8 = Report Zone Inactivity Alarm

# \*\*Dialer Reporting Options "B"\*\*

P187E Dialer Options for "B" P187E Options (Default = 1,2,3) Page 36

1 = Report Manual Panic Alarm2 = Report Manual Fire Alarm3 = Report Manual Medical Alarm

	**Dialer Reporting Option	ns "C"**
P188E Dialer Options for "B"	P188E Options (Default = 1,2)  1 = Report Arm/Disarm  2 = Report Stay Mode Arm/Disarm  3 = Report Disarm only after an Activation  4 = Report Stay Mode Disarm only after an Activation  5 = Report 24 Hour Alarms when set to Domestic/Voice mo  6 = Send arm immediate or after exit delay  7 = Report Zone alarms in Stay Mode  8 = Spare  **Keypad Listen-in Options  **Comparison of the state of the	
	<b></b>	
P189E Keypad Listen-in Options	P189E Options (Default = 1-7)  1 = Enabled During Dialing in Disarm State only  2 = Enabled During Dialing in Armed State only  3 = Enabled During Dialing in Stay Mode State only  4 = Enabled Throughout the call in Disarm State only  5 = Enabled Throughout the call in Armed State only  6 = Enabled Throughout the call in Stay Mode State only  7 = Listen-in Enabled when the panel answers a call  8 = Enabled at All Times	Page 37
	**Output # 1 Listen-in Op	otions**
P190E Output # 1 Listen-in Options	P190E Options (Default = None)  1 = Enabled During Dialing in Disarm State only  2 = Enabled During Dialing in Armed State only  3 = Enabled During Dialing in Stay Mode State only  4 = Enabled Throughout the call in Disarm State only  5 = Enabled Throughout the call in Armed State only  6 = Enabled Throughout the call in Stay Mode State only  7 = Listen-in Enabled when the panel answers a call  8 = Enabled at All Times	Page 38
	Output Delay C	N time
P202E Output 2 Delay ON Time - Value P203E Output 3 Delay ON Time - Value P204E Output 4 Delay ON Time - Value P205E Output 5 Delay ON Time - Value P206E Output 6 Delay ON Time - Value P207E Output 7 Delay ON Time - Value	e 0-255 Seconds (Default = 0 Sec)	Page 25 Page 25 Page 25 Page 25 Page 25 Page 25 Page 25 Page 25
Da	y Mode (CHIME ) to Keypad Buzze	r Timer
	Buzzer Time - Value 0-99 1/10 Seconds (Default ; 20 =2 Sec) Buzzer Time - Value 0-99 1/10 Seconds (Default ; 20 =2 Sec)	Page 24 Page 24
	Output Day Mod	de Time
P212E Output 2 Day Mode ON Time - \	Value 0-99 1/10 Seconds (Default ; 20 =2 Sec) Value 0-99 1/10 Seconds (Default ; 20 =2 Sec) Value 0-99 1/10 Seconds (Default ; 20 =2 Sec)	Page 25 Page 25 Page 25

P215E P216E P217E	<ul> <li>E Output 4 Day Mode ON Time - Value 0-99 1/10 Seconds (Default; 20 = 2 Sec)</li> <li>E Output 5 Day Mode ON Time - Value 0-99 1/10 Seconds (Default; 20 = 2 Sec)</li> <li>E Output 6 Day Mode ON Time - Value 0-99 1/10 Seconds (Default; 20 = 2 Sec)</li> <li>E Output 7 Day Mode ON Time - Value 0-99 1/10 Seconds (Default; 20 = 2 Sec)</li> <li>E Output 8 Day Mode ON Time - Value 0-99 1/10 Seconds (Default; 20 = 2 Sec)</li> </ul>				
Progi	ramming Exit Delays				
	19E Partition "A" Exit Delay Time - Value 0-255 Seconds (Default = 60 Sec) 20E Partition "B" Exit Delay Time - Value 0-255 Seconds (Default = 60 Sec)				
Outp	out Pulse Time				
P222E P223E P224E P225E P226E P227E	Output 1 Pulse Time - Value 0-99 1/10 Seconds (Default; 20 =2 Sec) Output 2 Pulse Time - Value 0-99 1/10 Seconds (Default; 20 =2 Sec) Output 3 Pulse Time - Value 0-99 1/10 Seconds (Default; 20 =2 Sec) Output 4 Pulse Time - Value 0-99 1/10 Seconds (Default; 20 =2 Sec) Output 5 Pulse Time - Value 0-99 1/10 Seconds (Default; 20 =2 Sec) Output 6 Pulse Time - Value 0-99 1/10 Seconds (Default; 20 =2 Sec) Output 7 Pulse Time - Value 0-99 1/10 Seconds (Default; 20 =2 Sec) Output 8 Pulse Time - Value 0-99 1/10 Seconds (Default; 20 =2 Sec) Output 8 Pulse Time - Value 0-99 1/10 Seconds (Default; 20 =2 Sec)				
Two	Trigger Timer				
P229E	29E Two Trigger Timer - Value 0-255 Seconds (Default = 60 Sec)				
Dure	ss Digit				
P230E	230E Duress Digit - Value 1-9 (Default = 0 Duress Function Disabled)				
Radio	o Zone Detector Options	S			
P232E P233E P234E P235E P236E P237E	235E Options for Zone # 5 (Default= 0) 4 = Crow Merlin PIR (supervised signal active) 11 = Ness Devices battery Low				
Radio	o Detector Supervised 7	Timer			
P239E	239E Radio Detector Supervised Timer - 0-255 Minutes (Default = 240 Minutes)				
Zone	Inactivity Timer				
P240E	240E Zone Inactivity Timer - 0-255 Hours (Default = 120 Hours)				

	**	Telephone Number Reporting	Options**
P242E	Reporting Opts. Ph # 1 (Default= 2) Reporting Opts. Ph # 2 (Default= 2) Reporting Opts. Ph # 3 (Default= 2) Reporting Opts. Ph # 4 (Default= 2)	P241E-P244E Options  1 = Contact ID  2 = Domestic Dial  3 = Pager  4 = Speech Dialer  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	Page 39 Page 39 Page 39 Page 39
	**Maxin	num Re-Tries per Telephone	Number**
P246E P247E	Maximum re-Tries for PH No. 1 - Value Maximum re-Tries for PH No. 2 - Value Maximum re-Tries for PH No. 3 - Value Maximum re-Tries for PH No. 4 - Value	e 0-99 (Default = 3) e 0-99 (Default = 3)	Page 38 Page 38 Page 38
	Page 39		
		**Auto-Answer Ri	ng Count**
P249E	Auto-Answer Ring Count - Value 0-99	(Default = 8)	Page 46
	**Start	of DTMF Remote Control N	/lessages**
P250E	Start of DTMF Remote Control Messag	ges - Value 0-99 (Default = 0)	Page 45
	*	*Programming Voice Board N	/lessages**
P252E P253E P254E P255E P256E P257E	Zone 1 Voice Message Number - (Defa Zone 2 Voice Message Number - (Defa Zone 3 Voice Message Number - (Defa Zone 4 Voice Message Number - (Defa Zone 5 Voice Message Number - (Defa Zone 7 Voice Message Number - (Defa Zone 8 Voice Message Number - (Defa	ault = 1)	Page 45
P252E P253E P254E P255E P256E P257E	Zone 1 Voice Message Number - (Defa Zone 2 Voice Message Number - (Defa Zone 3 Voice Message Number - (Defa Zone 4 Voice Message Number - (Defa Zone 5 Voice Message Number - (Defa Zone 6 Voice Message Number - (Defa Zone 7 Voice Message Number - (Defa Zone 8 Voice Message Number - (Defa	ault = 1)	Page 45
P252E P253E P254E P255E P256E P257E P258E P259E P260E	Zone 1 Voice Message Number - (Defa Zone 2 Voice Message Number - (Defa Zone 3 Voice Message Number - (Defa Zone 4 Voice Message Number - (Defa Zone 5 Voice Message Number - (Defa Zone 6 Voice Message Number - (Defa Zone 7 Voice Message Number - (Defa Zone 8 Voice Message Number - (Defa **  Panic Alarm Voice Message Number - (Medical	ault = 1)  *Miscellaneous Voice Board N  • (Default = 1) Default = 1) er - (Default = 1)	Page 45
P252E P253E P254E P255E P256E P257E P258E P259E P260E P261E	Zone 1 Voice Message Number - (Defa Zone 2 Voice Message Number - (Defa Zone 3 Voice Message Number - (Defa Zone 4 Voice Message Number - (Defa Zone 5 Voice Message Number - (Defa Zone 6 Voice Message Number - (Defa Zone 7 Voice Message Number - (Defa Zone 8 Voice Message Number - (Defa **  Panic Alarm Voice Message Number - (Medical	ault = 1)  *Miscellaneous Voice Board N  • (Default = 1) Default = 1) er - (Default = 1)	Page 45

P303E P304E P305E P306E P307E P308E	Zone 2 Entry Delay Time - Value 0-255 Seconds (Default = 20 Sec) Zone 3 Entry Delay Time - Value 0-255 Seconds (Default = 0 Sec) Zone 4 Entry Delay Time - Value 0-255 Seconds (Default = 0 Sec) Zone 5 Entry Delay Time - Value 0-255 Seconds (Default = 0 Sec) Zone 6 Entry Delay Time - Value 0-255 Seconds (Default = 0 Sec) Zone 7 Entry Delay Time - Value 0-255 Seconds (Default = 0 Sec) Zone 8 Entry Delay Time - Value 0-255 Seconds (Default = 0 Sec)	Page 24 Page 24 Page 24 Page 24 Page 24 Page 24 Page 24
Outp	ut Reset Time	
P312E P313E P314E P315E P316E P317E	•	Page 25 Page 25 Page 25 Page 25 Page 25 Page 25 Page 25 Page 25
**Ma	ains Fail Reporting Delay**	
P319E	Mains Fail Reporting Delay - Value 0-9999 Seconds (Default = 600 Sec)	Page 46
**Zo	ne Contact ID Reporting Code**	
P322E P323E P324E P325E P326E P327E	Contact ID Code for Zone 1 (Default=130) Contact ID Code for Zone 2 (Default=130) Contact ID Code for Zone 3 (Default=130) Contact ID Code for Zone 4 (Default=130) Contact ID Code for Zone 5 (Default=130) Contact ID Code for Zone 6 (Default=130) Contact ID Code for Zone 7 (Default=130) Contact ID Code for Zone 8 (Default=130)	Page 41 Page 41 Page 41 Page 41 Page 41 Page 41 Page 41
** <b>K</b> e	ypad Panic Alarm Contact ID Reporting Code**	
P329E	Keypad Panic ("Panic" or "1&3") Contact ID Code (Default=120)	Page 41
**Ke	ypad Fire Alarm Contact ID Reporting Code**	
P330E	Keypad Fire (4&6) Contact ID Code (Default=110)	Page 41
** <b>K</b> e	ypad Medical Alarm Contact ID Reporting Code**	
P331E	Keypad Medical (7&9) Contact ID Code (Default=100)	Page 42
**DT	TMF Remote Control Codes**	
P335E P336E	DTMF Remote Control Code for Area "A" - 4 Digits (Default = 0) DTMF Remote Control Code for Area "B" - 4 Digits (Default = 0) DTMF Remote Control Code for Outputs - 4 Digits (Default = 0) DTMF Remote Control Code to Turn on Microphone - 4 Digits (Default = 0)	Page 45 Page 45 Page 45 Page 45

	Setting Real Tim	ne Clock
P401E P403E P405E P406E	Real Time Hour/Minute - Value 0-2359  Real Time Day of Week - Value 1-7 (1=Sunday, 2=Monday ,etc)  Real Time Clock Date - Value 1-31  Real Time Clock Month - Value 1-12	Page 33
P407E	Real Time Clock Year - Value 0-99	Page 33
Dayl	ight Saving settings: NOT available in V8.64 panels ar	nd
abov	e)	
P408E P409E P410E P411E	Daylight Saving Start Sunday - Value 0-5 - Default = 1 (0=daylight saving start time disabled Daylight Saving Start Month - Value 1-12 - Default = 10 Daylight Saving Start Hour - Value 0-23 - Default = 2 Daylight Saving End Sunday - Value 0-5 - Default = 3 (0=daylight saving end time disabled)	
P412E P413E P414E	Daylight Saving End Month - Value 1-12 - Default = 3  Daylight Saving End Hour - Value 0-23 - Default = 2  Daylight Saving is Active (If LED #1 is On, Daylight Saving is currently active)	
	**Test Call Time o	f Day**
		_
P402E P404E	Test Call Hour/Minute - Value 0-2359 Test Call Days of the Week - Value 1-7 (1=Sunday, 2= Monday, etc)	Page 46
	**Programming Telephone Nur	mbers**
P501E P502E P503E P504E	Programming Telephone Number # 2 - Value 1-16 Digits Programming Telephone Number # 3 - Value 1-16 Digits	Page 38 Page 38 Page 38 Page 38
	**Upload/Download Site Code Nu	ımber**
P505E	Upload/Download Site Code Number - 8 Characters (Default = None)	Page 46
	**Contact ID Account (	Codes**
	Contact ID Partition "A" Account Code Number - 4 Digits (Default = 0000) Contact ID Partition "B" Account Code Number - 4 Digits (Default = 0000)	Page 41 Page 41
	**Zone Alarm 4+2 Reporting	Code**
P512E P513E P514E P515E P516E P517E	4+2 Alarm Code for Zone 1 (Default=01) 4+2 Alarm Code for Zone 2 (Default=02) 4+2 Alarm Code for Zone 3 (Default=03) 4+2 Alarm Code for Zone 4 (Default=04) 4+2 Alarm Code for Zone 5 (Default=05) 4+2 Alarm Code for Zone 6 (Default=06) 4+2 Alarm Code for Zone 7 (Default=07) 4+2 Alarm Code for Zone 8 (Default=08)	Page 42 Page 42 Page 42 Page 42 Page 42 Page 42 Page 42
P519E	**System Tamper 4+2 Reporting 4+2 Alarm Code for System Tamper (Default=86)	Code** Page 43

** <b>Z</b> o	ne Alarm Restore 4+2 Reporting Code**	
P522E P523E P524E P525E P526E P527E	4+2 Alarm Restore Code for Zone 1 (Default=11) 4+2 Alarm Restore Code for Zone 2 (Default=12) 4+2 Alarm Restore Code for Zone 3 (Default=13) 4+2 Alarm Restore Code for Zone 4 (Default=14) 4+2 Alarm Restore Code for Zone 5 (Default=15) 4+2 Alarm Restore Code for Zone 6 (Default=16) 4+2 Alarm Restore Code for Zone 7 (Default=17) 4+2 Alarm Restore Code for Zone 8 (Default=18)	Page 42 Page 42 Page 42 Page 42 Page 42 Page 42 Page 42 Page 42
**Sy	stem Tamper Restore 4+2 Reporting Code**	
	4+2 Alarm Code for System Tamper Restore (Default=87) SCellaneous Alarm 4+2 Reporting Codes**	Page 43
P531E	Panic Alarm 4+2 Code (Default=88)	Page 43
P532E	Fire Alarm 4+2 Code (Default=89)	Page 43
P533E	Medical Alarm 4+2 Code (Default=90)	Page 43
**Mi	scellaneous Alarm 4+2 Restore Codes**	
P534E	Panic Alarm Restore 4+2 Code (Default=91)	Page 43
P535E	Fire Alarm Restore 4+2 Code (Default=92)	Page 43
P536E	Medical Alarm Restore 4+2 Code (Default=93)	Page 43
**Ma	ains & Battery 4+2 Reporting Codes**	
P537E	Low Battery 4+2 Code (Default=94)	Page 43
P538E	Mains Failure 4+2 Code (Default=95)	Page 43
**Ma	ains & Battery 4+2 Restore Codes**	
P539E	Low Battery Restore 4+2 Code (Default=96)	Page 43
P540E	Mains Failure restore 4+2 Code (Default=97)	Page 43
**Ar	med by User # 4+2 Reporting Code**	
P542E P543E P544E P545E P546E	4+2 Arm Code for User 1 (Default=41) 4+2 Arm Code for User 2 (Default=42) 4+2 Arm Code for User 3 (Default=43) 4+2 Arm Code for User 4 (Default=44) 4+2 Arm Code for User 5 (Default=45) 4+2 Arm Code for User 6 (Default=46) 4+2 Arm Code for User 7 (Default=47)	Page 43 Page 43 Page 43 Page 43 Page 43 Page 43

P549E	4+2 Arm Code for User 8 (Default=48) 4+2 Arm Code for User 9 (Default=49) 4+2 Arm Code for User 10 (Default=50)			Page 43 Page 43 Page 43
	**Disarmed by User #	4+2	Reporting	Code**
P552E P553E P554E P555E P556E P557E P558E P559E	4+2 Disarm Code for User 1 (Default=51) 4+2 Disarm Code for User 2 (Default=52) 4+2 Disarm Code for User 3 (Default=53) 4+2 Disarm Code for User 4 (Default=54) 4+2 Disarm Code for User 5 (Default=55) 4+2 Disarm Code for User 6 (Default=56) 4+2 Disarm Code for User 7 (Default=57) 4+2 Disarm Code for User 8 (Default=58) 4+2 Disarm Code for User 9 (Default=59) 4+2 Disarm Code for User 10 (Default=60)  **Armed by Radio Pendant User #	4+2	Reporting	Page 44
	4+2 Arm Code for Radio User 1 (Default=61)			Page 44
P563E P564E P565E P566E P567E	4+2 Arm Code for Radio User 2 (Default=62) 4+2 Arm Code for Radio User 3 (Default=63) 4+2 Arm Code for Radio User 4 (Default=64) 4+2 Arm Code for Radio User 5 (Default=65) 4+2 Arm Code for Radio User 6 (Default=66) 4+2 Arm Code for Radio User 7 (Default=67) 4+2 Arm Code for Radio User 8 (Default=68)			Page 44
	**Armed by "Arm" Button	4+2	Reporting	Code**
P569E	4+2 Arm by "Arm" Button or Key-switch Code (Default=81)			Page 44
	**Stay Mode Arming	4+2	Reporting	Code**
P570E	4+2 Stay Mode Arming Code (Default=82)			Page 44
	**Disarmed by Radio Pendant User #	4+2	Reporting	Code**
P572E P573E P574E P575E P576E P577E P578E	4+2 Disarm Code for Radio User 1 (Default=71) 4+2 Disarm Code for Radio User 2 (Default=72) 4+2 Disarm Code for Radio User 3 (Default=73) 4+2 Disarm Code for Radio User 4 (Default=74) 4+2 Disarm Code for Radio User 5 (Default=75) 4+2 Disarm Code for Radio User 6 (Default=76) 4+2 Disarm Code for Radio User 7 (Default=77) 4+2 Disarm Code for Radio User 8 (Default=78) 4+2 Disarm by Arm or Stay Button or Key-switch (Default=83)			Page 44
	**Duress Alarm	4+2	Reporting	Code**
P580E	4+2 Duress Alarm Code (Default=84)			Page 45

**Z0	one Bypassed 4+2 Reporting Code**	
P582E P583E P584E P585E P586E P587E	4+2 Bypass Message for Zone 1 (Default=21) 4+2 Bypass Message for Zone 2 (Default=22) 4+2 Bypass Message for Zone 3 (Default=23) 4+2 Bypass Message for Zone 4 (Default=24) 4+2 Bypass Message for Zone 5 (Default=25) 4+2 Bypass Message for Zone 6 (Default=26) 4+2 Bypass Message for Zone 7 (Default=27) 4+2 Bypass Message for Zone 8 (Default=28)	Page 42 Page 42 Page 42 Page 42 Page 42 Page 42 Page 42 Page 42
** <b>A</b> ı	utomatic Test 4+2 Reporting Code**	
P590E	4+2 Automatic Test Code (Default=85)	Page 43
**Z0	one Bypassed 4+2 Restore Code**	
P592E P593E P594E P595E P596E P597E	4+2 Bypass Restore Message for Zone 1 (Default=31) 4+2 Bypass Restore Message for Zone 2 (Default=32) 4+2 Bypass Restore Message for Zone 3 (Default=33) 4+2 Bypass Restore Message for Zone 4 (Default=34) 4+2 Bypass Restore Message for Zone 5 (Default=35) 4+2 Bypass Restore Message for Zone 6 (Default=36) 4+2 Bypass Restore Message for Zone 7 (Default=37) 4+2 Bypass Restore Message for Zone 8 (Default=38)	Page 42 Page 43 Page 43 Page 43 Page 43 Page 43 Page 43
Radi	o Zone Code Loading	
P602E P603E P604E P605E P605E P603E	Load Radio Code for Zone # 1 Load Radio Code for Zone # 2 Load Radio Code for Zone # 3 Load Radio Code for Zone # 4 Load Radio Code for Zone # 1 Load Radio Code for Zone # 2 Load Radio Code for Zone # 3 Load Radio Code for Zone # 3 Load Radio Code for Zone # 4	Page 26 Page 26 Page 26 Page 26 Page 26 Page 26 Page 26 Page 26
Radi	o Pendant Code Loading	
P612E P613E P614E P615E P616E P617E	Load Radio Pendant Code # 1 Load Radio Pendant Code # 2 Load Radio Pendant Code # 3 Load Radio Pendant Code # 4 Load Radio Pendant Code # 5 Load Radio Pendant Code # 6 Load Radio Pendant Code # 7 Load Radio Pendant Code # 8	Page 27 Page 27 Page 27 Page 27 Page 27 Page 27 Page 27 Page 27
Rest	ore All Factory Defaults	
	Restore All Factory Defaults	Page 33
	ore User Code Defaults	
P621E	Restore User Code Defaults	Page 33

	Restore Addresses 20-199 to Factory D	efaults
P622E	Restore Addresses 20-199 to Factory Defaults	Page 33
	Restore Addresses 200-399 to Factory D	efaults
P623E	Restore Addresses 200-399 to Factory Defaults  Restore Addresses 500-599 to Factory D	Page 34
P624E	Restore Addresses 500-599 to Factory Defaults	Page 34
	Restore All Radio Zone & Pendants to Factory D	efaults
P625E	Restore All Radio Zone & Pendants to Factory Defaults  Clear Alarm Memory	Page 34 <b>Buffer</b>
P626E	Clear Alarm Memory Buffer	Page 34
	Walk Tes	t Mode
P627E	Walk Test Mode	Page 34
	Write to EEPROM (DTU)	Board
P628E	Write to EEPROM (DTU) Board	Page 34
	Read from EEPROM (DTU)	Board
P629E	Read from EEPROM (DTU) Board	Page 34

# **Contact ID Code Summary**

In addition to the programmable Contact ID code assignments defined at P 321E - P331E there are a number of event codes with extensions pre-defined as listed below. This extensions list is for your reference only and can not be re-assigned.

Event	Code	Extension	Comment
Cabinet Tamper Zone Tamper - Low (short circuit)	137 137	000 001 to 004	Panel & Sat Tamper etc Zone Input 1-4
Zone Tamper - High (open circuit)	137	005 to 008	Zone Input 1-4
Keypad Panic (or 1&3)  Keypad Fire (4&6)  Keypad Medical (7&9)  Arm by "ARM key (Quick Arm)	through to 110 through to 100 through to 408	001 008 001 008 001 008 000	At keypad #1 At keypad #8 At keypad #1 At keypad #8 At keypad #1 At keypad #8
Arm by user code	401	001	User #1
Arm by Radio key	through to 400	010 001	user #10 Radio User #1
Arm by Command Control (remote set)	through to 407	008 000	Radio User #8 Command Control arm/disarm
Arm by Keyswitch	409	001	Area "A" Keyswitch Arm/Disarm
	409	002	Area "B" Keyswitch Arm/Disarm
Arm by Up/Download	407	000	Remote PC arm/disarm
Radio key Panic	120	001	Radio key pendant #1
		008	Radio key pendant #8
Radio PIR / Reed Switch Activation	130	001	Zone 1
System Battery Low	through to 302	008 000	Zone 8 Control Panel Battery low
Mains Fail	301	000	230v mains to control panel lost
Radio PIR / Reed Switch Battery Low	384	001	Zone 1
Radio PIR Supervised Alarm	through to 381	008 001	Zone 8 Zone 1
Zone Inactivity Alarm Radio key Battery Low	through to 391 through to 384	008 001 008 021	Zone 8 Zone 1 Zone 8 Radio key #1
TEST Calls	through to	022 023 028 000	Radio key #2 Radio key #3 Radio key #8 24 hour test
Zone Excludes	570	001	Exclude Zone 1
Phone Line Failure	through to 351	008 000	Exclude Zone 8 Reported when line is restored
Monitor Mode (part set)	441	000	Arm by "Monitor" Button
		001	User 1
Duress Alarm	through to 121 through to	010 001 008	User 10 Duress at Keypad #1 Duress at keypad #8

# Software changes with the POWER WAVE V8.61 (JAN 2002)

There have been a couple of changes to the panel to allow new features. These changes are documented below so that the differences between this version of the panel and earlier versions (software version V8.60 and below) can be identified.

#### The changes are;

- 1) A new event has been added to the event memory. When viewing the alarm events in memory mode there is a new "System" first event which is "the dialer failed to get a **kiss-off**". The event is displayed on the LED keypad as a system # 8 event (refer to the table on page 9).
- 2) A new feature has been added to the "STAY" mode arming sequence. When arming "STAY" mode all exit and entry delays will apply as programmed, however if the "Enter" button is pressed after arming "STAY" mode, then all exit and entry delays will be cancelled for that armed cycle making everything instant.
- 3) A new program address has been added, P169E. This address provides three new options, see page 28 for details on these new features.
- 4) The monitoring account numbers have moved from P332E (Area A account) & P333E (Area B account) to P506E (Area A) & P507E (Area B). This change has been made to allow the letters B,C,D,E & F to be programmed into the account codes (see page 38 for details).
- 5) There has been a change to the way 24 hour alarms can be reported if using Domestic or Voice alarm modes. Option # 6 at address P188E now can enable or fully **disable 24 hour alarm reports** in these two modes. In earlier software versions a 24 hour alarm would always report an alarm in Domestic or Voice mode if the alarm was armed but could also be programmed to report when disarmed as well. Now if option 6 is OFF there will be NO 24 hour alarms reported. If option 6 is ON then 24 hour alarms will ALWAYS report regardless of the Arm/Disarm state.
- 6) There has been a new option added at address P188E, option #7. This option now allows the ability to control whether STAY mode zone alarms will be reported via the dialer or not. If option 7 is turned ON, all STAY mode zone alarms will report via the dialer, if OFF then no STAY mode zone alarms will be sent. This option is essentially designed to work in combination with option 2 at P188E. If full reporting of the part set alarm state (Monitor Mode) is required then option 2 & 7 will be turned on. If alarms only are required for the part set mode then option 2 will be off and 7 on (this inhibits the arm/disarm report that may not be required in a residential situation). Finally, if both options 2 & 7 are off then the part set mode is purely a local audible alarm with not alarm reporting via the dialer.
- 7) There is a new zone configuration in the panel. This new option allows zone doubling to occur (4k7 & 8k2 Resistors) without the need to use the 2k2 tamper resistor. When using this configuration an open or short circuit on the input will result in both zones being un-sealed but NO zone tamper (refer to the drawing on page 5).
- 8) The Radio Pendant Panic would always cause the keypad buzzer to sound as well when the alarm was activated. The radio pendant panic alarm is now linked to the keypad panic alarms at address P175E. If all of the LEDS are Off at address P175E then any Keypad or Radio Pendant generated panic alarms will not cause the keypad buzzer to sound (silent panic alarm). If the LEDS are on at address P175E then the buzzer will sound when one of these alarms is generated (audible panic alarm).

## Software changes with the PW8 V8.64 (July 2002)

The Daylight Savings adjustment (P408E-P414E) was removed to make room for the new Crow Freelink Wireless PIR & Reed switch protocol (see address P231E-P238E). At the same time a User Code with Option 8 ON at addresses P21E-P30E can now also change the Telephone numbers and the Real Time Clock from Client Program Mode.