ELECTRONIC ENGINEERING LTD.

Runner Series

WIRELESS AND WIRED CONTROL PANEL

Technician's Handbook

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How to Use this Handbook

The following program summary is an abridged version of all the Installation Guide describing the panel program addresses. This is intended as a quick guide for finding a program address and entering parameters quickly. In many address locations, there is a main address (for example, **P1E**), then a sub address (for example, **P1E 1E**). You must first enter the main address number, followed by the sub address, and then you can enter or set the actual parameters. The program addresses are in numerical order making them easy to find.

♦ To view the program parameters:

1. Press the **Program** key.
2. Enter the **Address** from the tables below.
3. Press the **Enter** key.

   The parameters for this address are displayed.
   Example, **1 - - 4 5 6 - 8**.

♦ To change the program parameter defaults:

1. Press the **Program** key.
2. Enter the **Address** from the tables below.
3. Press the **Enter** key.
4. Enter data or a numerical key to change the parameter.
5. Press the **Enter** key.

Column	Description
Address	Program address
Def	Parameter default ✓ = on
New	Your configuration setting (use pencil)
Opt.	Parameter number
SEQ	Sequence step number
✓	Default on all
✓*	Default **NOT** on all

Runner Series Quick Start Guide

The default settings of this panel have been chosen to allow the system to be up and running with a minimum of programming. Because of this there are normally only a handful of program addresses that need to be changed to get the system fully functional.

As a guide to getting the system up and running as quickly as possible we have summarised the most commonly used addresses for you below.

Just in case, you can always return the unit to the factory defaults, see **P200E** 44.

Programming the Unit

Step 1: Program the Keypad

The detailed instructions can be found in the Installation and Programming Guide.

- ❑ Set keypad address assignments as each keypad connected to the system must have a unique address
- ❑ Set the language (choose from those available)
- ❑ Edit the default zone, area, user and output names if required

Step 2: Program the User Codes

Address	Description
P1E 1-100E	Set the user code (password). Code 1 is P1E1E and defaults to 123. This means that User 1 automatically gets the code 123. Code 2 is P1E2E, this continues up to P1E100E for user 100.

Step 3: Set the Clock

Address	Description
P26E	Set the hour and date.

Step 4: Program the Zones

The panel uses two kinds of zones, hardwired and wireless.

Programming Hardwired Zones

SEQ	Address	Remarks/Example
1	**P122E 1-16E**	Set the zones in use as active Turn on option 1 (zone active).
2	**P121E 1-16E**	Select zone area assignment.
3	**P125E 1-8E**	Set zone type (hardwired) NC, EOL or double zone.

Programming Wireless Zones

SEQ	Address	Remarks/Example
1	P122E 1-16E	Set the zones in use as active. Turn on option 1 (zone active).
2	P121E 1-16E.	Select zone area assignment.
3	P122E	Set the zone type (radio zone).
4	P127E	Set radio zone detector type.
5	P164E	Learn (Recognize) the detector. For a detailed explanation see the Learn Radio Zone Codes section.

Step 5: Dialler and Telephone Numbers

SEQ	Address	Remarks/Example
1	P175E 1E	By default the Dialer is turned Off. To turn On the dialer, you must turn on Option 1 at address P175E1E.
2	P175E 3E	Set auto ring count. This is in case the dialled number has an answering service that only answers after a predetermined number of rings.
3	181E 1-8E	Program the phone numbers.
4	P182E 1-8E	Set the reporting format.
5	P62E 1-2E	In cases where the CID reporting format is used, program the account code.

Step 6: Assigning the Keypad Area

Address	Description
P71E 1-8E	Assign the keypad to the correct area.

Step 7: Program the Pendants

SEQ	Address	Remarks/Example
1	P1E 21-100E	Selecting a user for the pendant.
2	P2E 21-100E	Set the user as a radio user. Enter a 1 for crow pendants.
3	P18E 21-100E	Recognize the pendant.
4	P7E 21-100E	Set the radio user type. Enter a 1 for crow pendants.
5	P3E 21-100E	Select the pendant area.
6	P4E 21-100E	Set the user access options.
7	P8E 21-100E	Setting pendant privileges.

Step 8: Programming Proximity Reader

SEQ	Address	Remarks/Example
1	P99E 1-8E	Enable the front panel to Learn the reader.
2	P2E 1-100E	Select a user to be tag user.
3	P21E 1-100E	Learn the tag.
4	P3E 1-100E	Selecting the area for the tag.
5	P4E 1-100E	Setting the user access option.

Step 9: Armed Entry Delays

Address	Description
P144E 1-16E	Zone 1 entry delay is P146E1E and can have a value of 0-9999 seconds through to Zone 16 entry delay being at address P146E16E. A value of 0 means there is no delay.

Step 10: Stay Entry Delays

Address	Description
P145E 1-16E	Zone 1 entry delay when armed in Stay Mode is P147E1E and can have a value of 0-9999 seconds. The Stay Mode entry delay of Zone 16 is at address P147E16E. A value of 0 means that there is no delay.

Step 11: Setting the ARMED Exit Delay

Address	Description
P60E 1-2	Area A exit delay is programmed at P60E1E, Area B at P60E2E and can have a value of 0-255 seconds. A value of 0 means that there is no exit delay.

Step 12: Programming the STAY Exit Delay

Address	Description
P61E 1-2E	Area A Stay Mode exit delay is programmed at P61E1E, Area B at P61E2E and can have a value of 0-255 seconds. A value of 0 means that there is no stay exit delay.

Installation Summary Tables

USERS

Address	Description		Def	New
P1E 1-100	**PROGRAMMING USER CODES** Example = 123 codes can be either 1-6 or 4-6 digits depending on the configuration. The 100 user entries can be of mixed types, a keypad Code, Radio or Access key, but cannot exceed 100 entries. See also USER TYPE		✓	
P2E 1-100E	**USER TYPE** Code/Radio/Access tag-Card			
	0	Keypad Code User (PIN)	✓	
	1	Radio User (Users 21-100 only)		
	2	Access Tag/Card User		
	3	Both Code and Access Tag/Card User (Tag + PIN)		
	4	Either Code or Access Tag/Card User (Tag or PIN)		
P3E 1-100E	**USER AREA ASSIGNMENT**			
	1	Assigned to Area “A”	✓	
	2	Assigned to Area “B”		
P4E 1-100E	**USER CODE ACCESS OPTIONS**			
	1	Code can Arm Area	✓	
	2	Code can arm Stay Mode	✓	
	3	Code can Disarm Area	✓	
	4	Code can disarm Stay Mode	✓	
	5	Code is a Security Guard Code		
	6	Code will Arm Latchkey Mode		
	7	Call Divert Code		
	8	Spare		
P5E 1-100E	**USER CODE ACCESS OPTIONS** Defaults for user 1 = All on Defaults for users 2-100 = All off			
	1	User can Change their Code	✓	
	2	User can Change All Codes	✓	
	3	User can Allow Access to Installer Mode/Edit all Codes	✓	
	4	User can Change Telephone Numbers	✓	
	5	User can Change the Clock	✓	
	6	User can Change DTMF Command Codes	✓	
	7	User can Learn New Radio Devices	✓	
	8	User can Force a Download to Callback Number	✓	

P7E 21-100E	**RADIO USER TYPE**			
	0	General Pendant Type	✔	
	1	Crow Freelink Pendant		
	2	Ness Pendant		
P8E 1-100E	**RADIO USER PRIVILEGES**			
	1	Pendant Can Disarm at All Times		
	2	Pendant Causes Immediate Panic		
	3	Pendant Causes Delayed Panic (1.5 Sec)		
	4	Spare		
	5	Spare		
	6	Spare		
	7	Spare		
	8	Spare		
P9E 1-100E	**TIME ZONE ASSIGNED TO A USER**			
	1	User Controlled by Time Zone # 1		
	2	User Controlled by Time Zone # 2		
	3	User Controlled by Time Zone # 3		
	4	User Controlled by Time Zone # 4		
	5	User Controlled by Time Zone # 5		
	6	User Controlled by Time Zone # 6		
	7	User Controlled by Time Zone # 7		
	8	User Controlled by Time Zone # 8		
P10E 1-100E	**USER TO KEYPAD ASSIGNMENT**			
	1	Can Operate at Keypad # 1	✔	
	2	Can Operate at Keypad # 2	✔	
	3	Can Operate at Keypad # 3	✔	
	4	Can Operate at Keypad # 4	✔	
	5	Can Operate at Keypad # 5	✔	
	6	Can Operate at Keypad # 6	✔	
	7	Can Operate at Keypad # 7	✔	
	8	Can Operate at Keypad # 8	✔	

P11E 21-100E	**RADIO PENDANT PANIC BEEPS TO KEYPAD**			
	1	A Radio panic will Beep at Keypad # 1	✓	
	2	A Radio panic will Beep at Keypad # 2	✓	
	3	A Radio panic will Beep at Keypad # 3	✓	
	4	A Radio panic will Beep at Keypad # 4	✓	
	5	A Radio panic will Beep at Keypad # 5	✓	
	6	A Radio panic will Beep at Keypad # 6	✓	
	7	A Radio panic will Beep at Keypad # 7	✓	
	8	A Radio panic will Beep at Keypad # 8	✓	
P12E 1-100E	**USERS TO OUTPUT MASK**			
	1	User is Mapped to Output # 1		
	2	User is Mapped to Output # 2		
	3	User is Mapped to Output # 3		
	4	User is Mapped to Output # 4		
	5	User is Mapped to Output # 5		
	6	User is Mapped to Output # 6		
	7	User is Mapped to Output # 7		
	8	User is Mapped to Output # 8		
P13E 1-100E	**USER CAN TURN AN OUTPUT ON**			
	1	User Can Turn on Output # 1		
	2	User Can Turn on Output # 2		
	3	User Can Turn on Output # 3		
	4	User Can Turn on Output # 4		
	5	User Can Turn on Output # 5		
	6	User Can Turn on Output # 6		
	7	User Can Turn on Output # 7		
	8	User Can Turn on Output # 8		

P14E 1-100E	**USER CAN TURN AN OUTPUT OFF**			
	1	User Can Turn off Output # 1		
	2	User Can Turn off Output # 2		
	3	User Can Turn off Output # 3		
	4	User Can Turn off Output # 4		
	5	User Can Turn off Output # 5		
	6	User Can Turn off Output # 6		
	7	User Can Turn off Output # 7		
	8	User Can Turn off Output # 8		
P15E 1-100E	**RADIO PENDANT PANIC ALARM TO AN OUTPUT**			
	1	Radio panic to Output # 1	✓	
	2	Radio panic to Output # 2	✓	
	3	Radio panic to Output # 3		
	4	Radio panic to Output # 4		
	5	Radio panic to Output # 5		
	6	Radio panic to Output # 6		
	7	Radio panic to Output # 7		
	8	Radio panic to Output # 8		
P16E 1-100E	**ARMED BY USER # 4+2 REPORTING CODE** 4+2 Arm Code for Users 1-100			
P17E 1-100E	**DISARMED BY USER # 4+2 REPORTING CODE** 4+2 Disarm Code for Users 1-100			
P18E 21-100E	**LEARN RADIO PENDANT CODE** Only applies if the User Type P2E is set to 1			
P19E 21-100E	**DELETE A SPECIFIC RADIO PENDANT CODE** Only applies if the User Type P2E is set to 1			
P20E 0E	**FIND RADIO PENDANT MEMORY LOCATION** Enter this address and then operate the Radio Pendant to find its user number. Only applies if the User Type, P2E, is set to 1			
P21E 1-100E	**LEARN ACCESS TAG/CARD CODES** Learn Access Tag/Card Codes for Users 1-100. Only applies if the User Type, P2E, is set to 2, 3 or 4			
P22E 1-100E	**DELETE A SPECIFIC ACCESS TAG/CARD CODE** Delete a Specific Access Tag/Card Code for Users 1-100. Only applies if the User Type, P2E, is set to 2, 3 or 4			
P23E 0E	**FIND AN ACCESS TAG/CARD MEMORY LOCATION** **Only press 0E when using LED Keypad.** Enter this address and then operate the Access Tag/Card to find its user number. Only applies if the User Type, P2E, is set to 2, 3 or 4			

MISCELLANEOUS PANEL & CLOCK SETTINGS

P25E 1E	**INSTALLER CODE**		000000	
P25 2E	**DURESS DIGIT**		0 (disable)	
P25 3E	**DIAL REPORT DELAY** (0-255 sec)		0	
P25 4E	**RADIO DETECTOR SUPERVISED TIMER** (0-9999 min)		240 min (4 hours)	
P25 5E	**TWO TRIGGER TIMER** (0-255 sec)		60 sec	
P25 6E	**MAINS FAIL REPORTING DELAY** (0-9999 sec)		600 sec	
P25 7E	**RECEIVER FAIL DELAY (0-9999 SEC)**		0 sec (disable)	
P25 8E	**UPLOAD/DOWNLOAD SITE CODE NUMBER** (Up to 8 Characters)		None	
P25 9E	**TEMPORARY OUTPUT DISABLE** (Output 1-8)			
P25 10E	**MISCELLANEOUS PANEL OPTIONS**			
	1	Panel Tamper is 2k2 EOL	✓	
	2	Direct access to program mode for the installer code	✓	
	3	Disable Mains Fail Test		
	4	Listen-in to O/P # 1 Low Volume		
	5	Receiver Fail Lockout		
	6	Send output information to keypad bus		
	7	Cannot arm if the system battery is low		
	8	Installer Lockout		
P25 11E	**INSTALLER OPTIONS**			
	1	Entry to installer mode resets confirmed alarms		
	2	Entry to installer mode resets tamper alarms		
	3	Entry to installer mode resets low battery alarms		
	4	Entry to installer mode resets supervisory alarms		
	5	Spare		
	6	Spare		
	7	Spare		
	8	User codes must be 4-6 digits long		
P25 12E	**USER OPTIONS** This Option can **ONLY** be accessed from Client Mode			
	1	Hide user codes from installer		

P26	**SETTING THE REAL TIME CLOCK**		
P26 1E	**REAL TIME HOUR/MINUTE** (0-2359)		
P26 2E	R**EAL TIME DAY OF WEEK** (1-7) (1=Sunday, 2=Monday and so on)		
P26 3E	**REAL TIME DATE/MONTH/YEAR** Value **DDMMYY** (Date/Month/Year) Example 020904 = 2nd Sept 2004		
P26 4E	**DAYLIGHT SAVING IS ACTIVE** If LED #1 is On, Daylight Saving is currently active. Turn this bit ON if you are in Daylight Saving Time when the panel is installed.		
P27-P29	**DAYLIGHT SAVING SETTINGS START SUNDAY**		
P27 1E	**DAYLIGHT SAVING START SUNDAY** (0-5) (0=daylight saving start time disabled)	**1**	
P27 2E	**DAYLIGHT SAVING END SUNDAY** (0-5) (0=daylight saving end time disabled)	**3**	
P28 1E	**DAYLIGHT SAVING START MONTH** (1-12)	**10**	
P28 2E	**DAYLIGHT SAVING END MONTH** (1-12)	**3**	
P29 1E	**DAYLIGHT SAVING START HOUR** (0-23)	**2**	
P29 2E	**DAYLIGHT SAVING END HOUR** (0-23)	**2**	

OUTPUTS

P34E 1-8E	**PROGRAMMING OUTPUT OPTIONS A** Option A for Outputs 1-8 (Default = All Off)			
	1	Invert Output		
	2	Flash Output		
	3	Single Pulse to Output		
	4	Lockout Output		
	5	DTMF Remote Control can operate Output		
	6	User Can operate this Output		
	7	Control button Can Operate Output		
	8	Chime Alarms Flash this Output (linked to Pulse Timer)		
P35E 1-8E	**PROGRAMMING OUTPUT OPTIONS B**			
	1	Mains Fail to Output (Operates when P25E6E time out)		
	2	Fuse Failure to Output		
	3	Battery Low to output		
	4	Telephone Line Failure to Output		
	5	Supervised Radio Signal Failure		
	6	Sensor-Watch Alarm		
	7	System Tamper to Output	✓	
	8	Receiver Failure		
P36E 1-8E	**PROGRAMMING OUTPUT OPTIONS C** (Default outputs 1&2 = 1 and 3-8 all off)			
	1	Walk Test Pulse to Output	✓	
	2	Pulse Output every 5 seconds when Disarmed	✓	
	3	Pulse Output on Kiss-off Following Arming		
	4	Spare		
	5	Spare		
	6	Spare		
	7	Spare		
	8	Spare		

P37E 1-8E	**PROGRAMMING OUTPUT OPTIONS D**			
	1	Siren Driver to Output (requires a horn speaker, outputs 1&2)		
	2	Output reset timer Set = Min Clear = Sec		
	3	Output muted for 10 seconds on key-press if alarm		
	4	Not used		
	5	Not used		
	6	Not used		
	7	Not used		
	8	Monitored Output (1&2 only) can tell if siren cable is cut		
P38 1-8E	**OUTPUT ON DELAY TIME** Enter a value 0-9999 Seconds (Default = 0 Sec)			
P39E 1-8E	**OUTPUT PULSE TIME** Enter a value 0-255 for 1/10th Sec increments (Default =10 which is 1 sec)			
P40E 1-8E	**OUTPUT RESET TIME** Enter a value 0-9999 Seconds (Default = 600 Sec) (if option 2 at P37E is on the reset time is in minutes)			
P41E 1-8E	**OUTPUT CHIME MODE TIME** Enter a value 0-255 for 1/10th Sec increments (Default =10 which is 1 sec)			
P42E 1-8E	**START OF OUTPUT COMMAND CONTROL STATUS MESSAGES** Enter a value 0-99 (Default = 0)			
P43E 1-8E	**UN-MAP AN OUTPUT** Remove ALL defaults from the Output			
P44E 1-8E	**ASSIGNING A TIME-ZONE TO AN OUTPUT** Time-zones that control output 1-8. l Outputs 1-8 Enter a time-zone 1-8			

AREAS

P45E 1-2E	**AREAS A & B OPTIONS A** 1 = Area A and 2 = Area B.			
	1	Arm button required before code to set		
	2	Stay button required before code to set stay mode		
	3	Code required to set		
	4	Code required to bypass zones		
	5	Spare		
	6	Send Arm at the end of the Exit Delay		
	7	Can Arm only if All Zones are Sealed (Ready)		
	8	Can Arm Stay Mode only if All Zones are Sealed (Ready)		
P46E 1-2E	**AREAS A & B OPTIONS B** 1 = Area A and 2 = Area B			
	1	Use near and verified alarm reporting for all zones in this area		
	2	Area will arm at end of time-zone		
	3	Area will disarm at beginning of time-zone		
	4	Assign beeps to access tags		
	5	Spare		
	6	Spare		
	7	Spare		
	8	Spare		
P47E 1-2E	**AREAS A & B ARM INDICATION TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Arm Indication to Output enter a value of 1-8 for each of the 8 outputs. (Default = All Off)			
P48E 1-2E	**AREAS A & B STAY ARM INDICATION TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Stay Arm Indication to Output enter a value of 1-8 for each of the 8 outputs. (Default = All Off)			
P49E 1-2E	**AREAS A & B DISARM INDICATION TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Disarm Indication to Output enter a value of 1-8 for each of the 8 outputs. (Default = All Off)			
P50E 1-2E	**AREAS A & B PENDANT/ACC. TAG ARM BEEP TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Beep to Output enter a value of 1-8 for each of the 8 outputs. Output beeps once when armed (Default = All Off)			
P51E 1-2E	**AREAS A & B PENDANT/ACC. TAG STAY ARM BEEP TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Stay Arm Beep to Output enter a value of 1-8 for each of the 8 outputs. Output beeps once when stay armed (Default = All Off)			

P52E 1-2E	**AREAS A & B PENDANT/ACC TAG DISARM BEEP TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Disarm Beeps to Output enter a value of 1-8 for each of the 8 outputs. Output beeps twice when disarmed (Default = All Off)		
P53E 1-2E	**AREAS A & B PENDANT STAY/ACC. TAG DISARM BEEP TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Stay Disarm Beeps to Output enter a value of 1-8 for each of the 8 outputs. Output beeps twice when stay disarmed (Default = All Off)		
P54E 1-2E	**AREAS A & B ARM PULSE TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Arm Pulse to Output enter a value of 1-8 for each of the 8 outputs. (Default = All Off)		
P55E 1-2E	**AREAS A & B STAY ARM PULSE TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Stay Arm Pulse to Output enter a value of 1-8 for each of the 8 outputs. (Default = All Off)		
P56E 1-2E	**AREAS A & B DISARM PULSE TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Disarm Pulse to Output enter a value of 1-8 for each of the 8 outputs. (Default = All Off)		
P57E 1-2E	**AREAS A & B STAY DISARM PULSE TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Stay Disarm Pulse to Output enter a value of 1-8 for each of the 8 outputs. (Default = All Off)		
P58E 1-2E	**AREAS A & B ARMED MODE EXIT DELAY BEEPS TO KEYPAD** **1** = Area A and **2** = Area B Area A & B Armed Exit Delay Beeps to Keypad enter a value of 1-8 for each of the 8 outputs. (Default = ALL ON)		
P59E 1-2E	**AREAS A & B STAY ARMED MODE EXIT DELAY BEEPS TO KEYPAD** **1** = Area A and **2** = Area B Area A & B Stay Armed Exit Delay Beeps to Keypad enter a value of 1-8 for each of the 8 outputs. (Default = ALL OFF)		
P60E 1-2E	**AREAS A & B ARMED EXIT DELAY TIME** **1 =** AREA A AND **2 =** AREA B Area A & B Exit Delay Time enter a value 0-255 sec. (Default = 30 Seconds for Areas A&B		
P61E 1-2E	**AREAS A & B STAY ARMED EXIT DELAY TIME** **1** = Area A and **2** = Area B Area A & B Stay Exit Delay Time enter a value 0-255 sec. (Default = 30 Seconds for Areas A&B)		
P62E 1-2E	**AREAS A & B MONITORING ACCOUNT CODE NUMBER** **1** = Area A and **2** = Area B Area A & B Account Code number enter a value 0000-FFFF. (Default = 0000 for Areas A&B)		

P63E 1-2E	**AREAS A & B REMOTE COMMAND CONTROL CODE NUMBER** **1** = Area A and **2** = Area B Area A & B Remote Command Control code enter a 1-4 digit code 1-9999. (Default = 0 for Areas A&B)		
P64E 1-2E	**AREAS A & B START MSG NUMBER FOR COMMAND CONTROL** **1** = Area A and **2** = Area B Area A & B Start Message Number for Command Control enter a value 0-99. (Default = 0 for Areas A&B)		
P65E 1-2E	**AREAS A & B ARMED MODE EXIT DELAY TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Armed Exit Delay to Output enter a value 1-8 for Outputs 1-8. (Default = All off for areas A&B)		
P66E 1-2E	**AREAS A & B STAY MODE EXIT DELAY TO OUTPUT** **1** = Area A and **2** = Area B Area A & B Stay Exit Delay to Output enter a value 1-8 for Outputs 1-8. (Default = All off for areas A&B)		
P67E 1-2E	**AREAS A & B DELINQUENCY DELAY** **1** = Area A and **2** = Area B Area A & B Delinquency Delay enter a value 0-99 Days where 0 = Off. (Default = 0 for areas A&B)		
P68E 1-2E	**AREAS A & B AUTO ARM/DISARM TIME-ZONES** **1** = Area A and **2** = Area B Auto Arm/Disarm Time-zones enter a value 1-8 for Time-zones 1-8. (Default = All off for areas A&B)		

KEYPADS

P71E 1-2E	**KEYPAD AREA ASSIGNMENT** **1** = Area A and **2** = Area B Keypads Assigned to Areas. (Default = 1 and 2 only for both areas A and B) Example, 1 2 - - - - -			
P72E 1-8E		**KEYPAD BUTTON OPTIONS** The defaults are 1 2 3 - - - - - for all 8 keypads		
	1	**CHIME** or **CONTROL PROGRAM** buttons enabled	✓	
	2	**BYPASS** button enabled	✓	
	3	**PANIC** button enabled	✓	
	4	Delayed panic on **PANIC** button		
	5	**<1>** & **<3>** panic alarm enabled		
	6	**<4>** & **<6>** fire alarm enabled		
	7	**<7>** & **<9>** medical alarm enabled		
	8	Spare		
P73E 1-8E	**ALARM BEEPS & LED CONTROL TO KEYPAD**			
	1	Mains Fail Beeps Keypad Buzzer		
	2	Fuse Failure Beeps Keypad Buzzer		
	3	Battery Low Beeps Keypad Buzzer		
	4	Telephone Line Failure Beeps Keypad Buzzer		
	5	System Tamper Alarm Beeps Keypad Buzzer	✓	
	6	Receiver Fail Beeps Keypad Buzzer		
	7	Turn Off Keypad LED's when Armed		
	8	Turn Off Keypad & Backlight LED's on Mains Failure		
P74E 1-8E	**KEYPAD ARM BUTTON AREA ASSIGNMENT**			
	1	ARM Button assigned to Area A	✓	
	2	ARM Button assigned to Area B		
P75E 1-8E	**KEYPAD ARM BUTTON AREA OPTIONS**			
	1	ARM Button can Arm	✓	
	2	ARM Button can Stay Mode Arm		
	3	ARM Button can Disarm at All Times		
	4	ARM Button can Disarm Stay Mode at All Times		
	5	ARM Button can Reset Alarms		
	6	ARM Button can Arm Latchkey Mode		
	7	ARM Button can Disarm During Exit Delay	✓	
	8	ARM Button can Disarm Stay Mode During Exit Delay		

P76E 1-8E	**KEYPAD STAY BUTTON AREA ASSIGNMENT**			
	1	STAY Button assigned to Area A	✓	
	2	STAY Button assigned to Area B		
P77E 1-8E	**KEYPAD STAY BUTTON AREA OPTIONS** Defaults Keypad 1 = 2,4 Keypads 2-8 = 2,8			
	1	ARM Button can Arm		
	2	ARM Button can Stay Mode Arm	✓	
	3	ARM Button can Disarm at All Times		
	4	ARM Button can Disarm Stay Mode at All Times (Default on keypad 1 only)	✓*	
	5	ARM Button can Reset Alarms		
	6	ARM Button can Arm Latchkey Mode		
	7	ARM Button can Disarm During Exit Delay		
	8	ARM Button can Disarm Stay Mode During Exit Delay (Default on keypad 2-8 only)	✓*	
P78E 1-8E	**KEYPAD A BUTTON AREA ASSIGNMENT**			
	1	A Button assigned to Area A	✓	
	2	A Button assigned to Area B		
P79E 1-8E	**KEYPAD A BUTTON AREA OPTIONS**			
	1	A Button can Arm	✓	
	2	A Button can Stay Mode Arm		
	3	A Button can Disarm at All Times		
	4	A Button can Disarm Stay Mode at All Times		
	5	A Button can Reset Alarms		
	6	A Button can Arm Latchkey Mode		
	7	A Button can Disarm During Exit Delay	✓	
	8	A Button can Disarm Stay Mode During Exit Delay		
P80E 1-8E	**KEYPAD B BUTTON AREA OPTIONS**			
	1	B Button assigned to Area A		
	2	B Button assigned to Area A	✓	
P81E 1-8E	**KEYPAD B BUTTON AREA OPTIONS**			
	1	B Button can Arm	✓	
	2	B Button can Stay Mode Arm		
	3	B Button can Disarm at All Times		
	4	B Button can Disarm Stay Mode at All Times		
	5	B Button can Reset Alarms		
	6	B Button can Arm Latchkey Mode		
	7	B Button can Disarm During Exit Delay	✓	
	8	B Button can Disarm Stay Mode During Exit Delay		

P82E 1-8E	**KEYPAD TO OUTPUT MASK-ACCESS CONTROL**			
	1	Keypad is linked to Output # 1		
	2	Keypad is linked to Output # 2		
	3	Keypad is linked to Output # 3		
	4	Keypad is linked to Output # 4		
	5	Keypad is linked to Output # 5		
	6	Keypad is linked to Output # 6		
	7	Keypad is linked to Output # 7		
	8	Keypad is linked to Output # 8		
P83E 1-8E	**CONTROL BUTTON TO OUTPUT MASK (ACCESS CONTROL)**			
	1	Keypad Control Button is linked to Output # 1		
	2	Keypad Control Button is linked to Output # 2		
	3	Keypad Control Button is linked to Output # 3		
	4	Keypad Control Button is linked to Output # 4		
	5	Keypad Control Button s linked to Output # 5		
	6	Keypad Control Button is linked to Output # 6		
	7	Keypad Control Button s linked to Output # 7		
	8	Keypad Control Button is linked to Output # 8		
P84E 1-8E	**KEYPAD PANIC BUTTON OR 1&3 ALARM TO OUTPUTS**			
	1	Keypad panic button or 1&3 turns on output # 1	✓	
	2	Keypad panic button or 1&3 turns on output # 2	✓	
	3	Keypad panic button or 1&3 turns on output # 3		
	4	Keypad panic button or 1&3 turns on output # 4		
	5	Keypad panic button or 1&3 turns on output # 5		
	6	Keypad panic button or 1&3 turns on output # 6		
	7	Keypad panic button or 1&3 turns on output # 7		
	8	Keypad panic button or 1&3 turns on output # 8		
P85E 1-8E	**FIRE 4&6 ALARM TO OUTPUTS**			
	1	Keypad fire (4&6) alarm turns on Output # 1	✓	
	2	Keypad fire (4&6) alarm turns on Output # 2	✓	
	3	Keypad fire (4&6) alarm turns on Output # 3		
	4	Keypad fire (4&6) alarm turns on Output # 4		
	5	Keypad fire (4&6) alarm turns on Output # 5		
	6	Keypad fire (4&6) alarm turns on Output # 6		
	7	Keypad fire (4&6) alarm turns on Output # 7		
	8	Keypad fire (4&6) alarm turns on Output # 8		

P86E 1-8E	**MEDICAL 7&9 ALARM TO OUTPUTS**			
	1	Keypad Medical 7&9 Alarm turns on Output # 1	✓	
	2	Keypad Medical 7&9 Alarm turns on Output # 2	✓	
	3	Keypad Medical 7&9 Alarm turns on Output # 3		
	4	Keypad Medical 7&9 Alarm turns on Output # 4		
	5	Keypad Medical 7&9 Alarm turns on Output # 5		
	6	Keypad Medical 7&9 Alarm turns on Output # 6		
	7	Keypad Medical 7&9 Alarm turns on Output # 7		
	8	Keypad Medical 7&9 Alarm turns on Output # 8		
P87E 1-8E	**DURESS ALARM TO OUTPUTS**			
	1	Keypad Duress Alarm turns on Output # 1		
	2	Keypad Duress Alarm turns on Output # 2		
	3	Keypad Duress Alarm turns on Output # 3		
	4	Keypad Duress Alarm turns on Output # 4		
	5	Keypad Duress Alarm turns on Output # 5		
	6	Keypad Duress Alarm turns on Output # 6		
	7	Keypad Duress Alarm turns on Output # 7		
	8	Keypad Duress Alarm turns on Output # 8		
P88E 1-8E	**KEYPAD “TAMPER SWITCH” ALARM TO OUTPUTS**			
	1	Keypad Tamper Switch Alarm turns on Output # 1	✓	
	2	Keypad Tamper Switch Alarm turns on Output # 2	✓	
	3	Keypad Tamper Switch Alarm turns on Output # 3		
	4	Keypad Tamper Switch Alarm turns on Output # 4		
	5	Keypad Tamper Switch Alarm turns on Output # 5		
	6	Keypad Tamper Switch Alarm turns on Output # 6		
	7	Keypad Tamper Switch Alarm turns on Output # 7		
	8	Keypad Tamper Switch Alarm turns on Output # 8		
P89E 1-8E	**KEYPAD WRONG CODE ALARM TO OUTPUTS**			
	1	Keypad Wrong Code Alarm turns on Output # 1	✓	
	2	Keypad Wrong Code Alarm turns on Output # 2	✓	
	3	Keypad Wrong Code Alarm turns on Output # 3		
	4	Keypad Wrong Code Alarm turns on Output # 4		
	5	Keypad Wrong Code Alarm turns on Output # 5		
	6	Keypad Wrong Code Alarm turns on Output # 6		
	7	Keypad Wrong Code Alarm turns on Output # 7		
	8	Keypad Wrong Code Alarm turns on Output # 8		

P90E 1-8E	**MANUALLY OPERATED PANIC ALARM BEEPS TO KEYPADS**			
	1	A Panic Alarm at the selected keypad Beeps KP # 1	✓	
	2	A Panic Alarm at the selected keypad Beeps KP # 2	✓	
	3	A Panic Alarm at the selected keypad Beeps KP # 3	✓	
	4	A Panic Alarm at the selected keypad Beeps KP # 4	✓	
	5	A Panic Alarm at the selected keypad Beeps KP # 5	✓	
	6	A Panic Alarm at the selected keypad Beeps KP # 6	✓	
	7	A Panic Alarm at the selected keypad Beeps KP # 7	✓	
	8	A Panic Alarm at the selected keypad Beeps KP # 8	✓	
P91E 1-8E	**MANUALLY OPERATED PANIC ALARM BEEPS TO KEYPADS**			
	1	A Fire Alarm at the selected keypad Beeps KP # 1	✓	
	2	A Fire Alarm at the selected keypad Beeps KP # 2	✓	
	3	A Fire Alarm at the selected keypad Beeps KP # 3	✓	
	4	A Fire Alarm at the selected keypad Beeps KP # 4	✓	
	5	A Fire Alarm at the selected keypad Beeps KP # 5	✓	
	6	A Fire Alarm at the selected keypad Beeps KP # 6	✓	
	7	A Fire Alarm at the selected keypad Beeps KP # 7	✓	
	8	A Fire Alarm at the selected keypad Beeps KP # 8	✓	
P92E 1-8E	**MANUALLY OPERATED MEDICAL ALARM BEEPS TO KEYPADS**			
	1	A Medical Alarm at selected keypad Beeps KP # 1	✓	
	2	A Medical Alarm at selected keypad Beeps KP # 2	✓	
	3	A Medical Alarm at selected keypad Beeps KP # 3	✓	
	4	A Medical Alarm at selected keypad Beeps KP # 4	✓	
	5	A Medical Alarm at selected keypad Beeps KP # 5	✓	
	6	A Medical Alarm at selected keypad Beeps KP # 6	✓	
	7	A Medical Alarm at selected keypad Beeps KP # 7	✓	
	8	A Medical Alarm at selected keypad Beeps KP # 8	✓	
P93E 1-8E	**WRONG CODE OR KEYPAD TAMPER SWITCH ALARM BEEPS TO KEYPADS**			
	1	A Wrong Code or KP Tamper Alarm at Keypad 1-8 Beeps KP # 1	✓	
	2	A Wrong Code or KP Tamper Alarm at Keypad 1-8 Beeps KP # 2	✓	
	3	A Wrong Code or KP Tamper Alarm at Keypad 1-8 Beeps KP # 3	✓	
	4	A Wrong Code or KP Tamper Alarm at Keypad 1-8 Beeps KP # 4	✓	
	5	A Wrong Code or KP Tamper Alarm at Keypad 1-8 Beeps KP # 5	✓	
	6	A Wrong Code or KP Tamper Alarm at Keypad 1-8 Beeps KP # 6	✓	
	7	A Wrong Code or KP Tamper Alarm at Keypad 1-8 Beeps KP # 7	✓	
	8	A Wrong Code or KP Tamper Alarm at Keypad 1-8 Beeps KP # 8	✓	
P94E 1-8E	Chime Alarm Beep Time at a Keypad The Time the Chime Alarm sounds at Each Keypad enter a value 0-255 1/10th sec. (Default = 20 which is 2 Seconds)			

P98E 1-8E	**PROXIMITY READER LED TO OUTPUT MAPPING**			
	1	Proximity Reader 1-8 LED follows the state of Output # 1		
	2	Proximity Reader 1-8 LED follows the state of Output # 2		
	3	Proximity Reader 1-8 LED follows the state of Output # 3		
	4	Proximity Reader 1-8 LED follows the state of Output # 4		
	5	Proximity Reader 1-8 LED follows the state of Output # 5		
	6	Proximity Reader 1-8 LED follows the state of Output # 6		
	7	Proximity Reader 1-8 LED follows the state of Output # 7		
	8	Proximity Reader 1-8 LED follows the state of Output # 8		
P99E 1-8E	**LEARN PROXIMITY READER KEYPAD ADDRESS NUMBER** Enter a Keypad Address 1-8 (Default = 20 which is 2 Seconds)			

KEYSWITCHES

P111E 1-2E	KEY-SWITCH AREA ASSIGNMENT K/S 1 & 2 are assigned to Areas A or B (Default K/S # 1 = 1 and K/S # 2 = 2)			
P112E 1-2E	**KEY-SWITCH ACCESS & OPERATIONAL OPTIONS** K/S 1 & 2 Access & Operational Op**tions** 1 = K/S # 1 and 2 = K/S # 2			
	1	K/S can Arm Area		
	2	K/S can arm Stay Mode		
	3	K/S can Disarm Area		
	4	K/S can disarm Stay Mode		
	5	K/S has Security Guard Options		
	6	K/S will Arm Latchkey Mode		
	7	Key-switch is N/O (If turned off the K/S is N/C)		
	8	Key-switch is Momentary (If turned off the K/S is Latched)		

ZONES

P121E 1-16E	**PROGRAMMING ZONES TO AREAS** Assigning Zones to Areas A or B (Default = 1)			
	1	Assigned to Area A		
	2	Assigned to Area B		
P122E 1-16E	**Programming Zone Options A** (Default Zone 1-4 = 1,6,7,8) (Default Zone 5-8 = 1,7,8) (Default Zone 9-16 = 7,8)			
	1	Zone is Active	✓*	
	2	Zone is N/O (Off = N/C)		
	3	Spare		
	4	Keypad Zone		
	5	Zone is a Radio Zone		
	6	Zone is a Stay Mode Zone	✓*	
	7	Zone can be Manually Bypassed	✓	
	8	Zone can be Auto-Bypassed	✓	
P123E 1-16E	**PROGRAMMING ZONE OPTIONS B**			
	1	Zone is a Handover Zone		
	2	Zone is a Two Trigger Zone		
	3	Zone is a 24 Hour Zone		
	4	Zone is a 24 Hour Auto-reset Zone		
	5	Zone is a 24 Hour Fire Zone		
	6	Zone is a One-Shot Zone		
	7	Zone is a Chime Zone		
	8	Zone is a Permanent Chime Zone		
P124E 1-16E	**PROGRAMMING ZONE OPTIONS C**			
	1	Can Arm if Zone is not Ready		
	2	Sends Multiple Reports via Dialler	✓	
	3	Sensor-Watch Zone		
	4	Zone is on Soak Test		
	5	Zone will report to Area B Account Number		
	6	Zone will Not Report 24 hour Alarms via Dialler		
	7	Spare		
	8	Spare		

P125E 1-8E	**PROGRAMMING ZONE EOL (END-OF-LINE) OPTIONS** (Default = 3)			
	0	**Short circuit**		
	1	Terminated with a 1K resistor		
	2	Terminated with a 1K5 resistor		
	3	Terminated with a 2K2 resistor		
	4	Terminated with a 3K3 resistor	✔	
	5	Terminated with a 3K9 resistor		
	6	Terminated with a 4K7 resistor		
	7	Terminated with a 5K6 resistor		
	8	Terminated with a 6K8 resistor		
	9	Terminated with a 10K resistor		
	10	Terminated with a 12K resistor		
	11	Terminated with a 22K resistor		
	12	Terminated with a 2K2/4K7 resistor		
	13	Terminated with a 3K3/6K8 resistor		
	14	Terminated with a 2K2/4K7/8K2 resistor		
	15	Terminated with a 4K7/8K2 resistor		
P126E 1-8E	**PROGRAMMING ZONE RESPONSE** **1 to 8 Vibration mode** (Default = 9) For using the vibration mode Zone EOL-P125E, MUST be type 3 only) 1 = highest and 8 is lowest sensitivity level. **9 to 26 Normal zone mode** Response time = approx 200ms –1sec			
P127E 1-16E	**PROGRAMMING THE RADIO ZONE TYPE FROM THE LIST** Enter a value 1-35 (Default = 3)			
	0	Generic		
	1	Crow Merlin PIR (supervised signal ignored)		
	2	Crow Merlin PIR (supervised signal active)		
	3	Freelink with checksum (supervised signal active)	✔	
	4	Freelink with checksum (non-supervised)		
	5	Crow AE Series Battery low		
	6	Crow AE Radio Reed Switch		
	11	Ness Devices battery Low		
	12	Ness Radio Reed Switch		
	21	Electronics Line Radio PIR		
	31	Visonic K900 Radio PIR		
	32	Visonic Powercode (supervised signal ignored)		
	33	Visonic Powercode (supervised signal active)		
	34	Siemens (supervised signal ignored)		
	35	Siemens (supervised signal active)		

P128E 1-16E	**ARMED ZONE ALARMS TO OUTPUTS** (Default for zones 1-8 = 2 and for zones 9-16 = 1-8)			
	1	Zone Alarm Turns On Output # 1	✓*	
	2	Zone Alarm Turns On Output # 2	✓*	
	3	Zone Alarm Turns On Output # 3	✓*	
	4	Zone Alarm Turns On Output # 4	✓*	
	5	Zone Alarm Turns On Output # 5	✓*	
	6	Zone Alarm Turns On Output # 6	✓*	
	7	Zone Alarm Turns On Output # 7	✓*	
	8	Zone Alarm Turns On Output # 8	✓*	
P129E 1-16E	**STAY ARMED ZONE ALARMS TO OUTPUTS** (Default for zones 1-8 = 2 and for zones 9-16 = 1-8)			
	1	Stay Mode Zone Alarm Turns On Output # 1		
	2	Stay Mode Zone Alarm Turns On Output # 2	✓	
	3	Stay Mode Zone Alarm Turns On Output # 3		
	4	Stay Mode Zone Alarm Turns On Output # 4		
	5	Stay Mode Zone Alarm Turns On Output # 5		
	6	Stay Mode Zone Alarm Turns On Output # 6		
	7	Stay Mode Zone Alarm Turns On Output # 7		
P130E 1-16E	**24 HOUR ZONE ALARMS TO OUTPUTS** (Default for zones 1-8 all off and for zones 9-16 all on)			
	1	24 Hour Zone Alarm Turns On Output # 1		
	2	24 Hour Zone Alarm Turns On Output # 1		
	3	24 Hour Zone Alarm Turns On Output # 3		
	4	24 Hour Zone Alarm Turns On Output # 41		
	5	24 Hour Zone Alarm Turns On Output # 5		
	6	24 Hour Zone Alarm Turns On Output # 6		
	7	24 Hour Zone Alarm Turns On Output # 7		
	8	24 Hour Zone Alarm Turns On Output # 8		
P131E 1-16E	**CHIME ZONE ALARMS TO OUTPUTS**			
	1	Chime Zone Alarm Turns On Output # 1		
	2	Chime Zone Alarm Turns On Output # 2		
	3	Chime Zone Alarm Turns On Output # 3		
	4	Chime Zone Alarm Turns On Output # 4		
	5	Chime Zone Alarm Turns On Output # 5		
	6	Chime Zone Alarm Turns On Output # 6		
	7	Chime Zone Alarm Turns On Output # 7		
	8	Chime Zone Alarm Turns On Output # 8		

P132E 1-16E	**ZONE TAMPER ALARMS TO OUTPUTS**			
	1	Zone Tamper Alarm will Turn On Output # 1		
	2	Zone Tamper Alarm will Turn On Output # 2		
	3	Zone Tamper Alarm will Turn On Output # 3		
	4	Zone Tamper Alarm will Turn On Output # 4		
	5	Zone Tamper Alarm will Turn On Output # 5		
	6	Zone Tamper Alarm will Turn On Output # 6		
	7	Zone Tamper Alarm will Turn On Output # 7		
	8	Zone Tamper Alarm will Turn On Output # 8		
P134E 1-16E	**ARMED ZONE ALARM BEEPS TO KEYPADS**			
	1	Armed Zone Alarm Beeps Keypad #1	✓	
	2	Armed Zone Alarm Beeps Keypad #2	✓	
	3	Armed Zone Alarm Beeps Keypad #3	✓	
	4	Armed Zone Alarm Beeps Keypad #4	✓	
	5	Armed Zone Alarm Beeps Keypad #5	✓	
	6	Armed Zone Alarm Beeps Keypad #6	✓	
	7	Armed Zone Alarm Beeps Keypad #7	✓	
	8	Armed Zone Alarm Beeps Keypad #8	✓	
P135E 1-16E	**STAY MODE ZONE ALARM BEEPS TO KEYPADS**			
	1	Stay Mode Zone Alarm Beeps Keypad #1		
	2	Stay Mode Zone Alarm Beeps Keypad #2		
	3	Stay Mode Zone Alarm Beeps Keypad #3		
	4	Stay Mode Zone Alarm Beeps Keypad #4		
	5	Stay Mode Zone Alarm Beeps Keypad #5		
	6	Stay Mode Zone Alarm Beeps Keypad #6		
	7	Stay Mode Zone Alarm Beeps Keypad #7		
	8	Stay Mode Zone Alarm Beeps Keypad #8		
P136E 1-16E	**24 HOUR ZONE ALARM BEEPS TO KEYPADS**			
	1	24 Hour Zone Alarm Beeps Keypad #1	✓	
	2	24 Hour Zone Alarm Beeps Keypad #2	✓	
	3	24 Hour Zone Alarm Beeps Keypad #3	✓	
	4	24 Hour Zone Alarm Beeps Keypad #4	✓	
	5	24 Hour Zone Alarm Beeps Keypad #5	✓	
	6	24 Hour Zone Alarm Beeps Keypad #6	✓	
	7	24 Hour Zone Alarm Beeps Keypad #7	✓	
	8	24 Hour Zone Alarm Beeps Keypad #8	✓	

P137E 1-16E	**CHIME ZONE ALARM BEEPS TO KEYPADS**			
	1	Chime Zone Alarm Beeps Keypad #1	✓	
	2	Chime Zone Alarm Beeps Keypad #21	✓	
	3	Chime Zone Alarm Beeps Keypad #3	✓	
	4	Chime Zone Alarm Beeps Keypad #4	✓	
	5	Chime Zone Alarm Beeps Keypad #5	✓	
	6	Chime Zone Alarm Beeps Keypad #6	✓	
	7	Chime Zone Alarm Beeps Keypad #7	✓	
	8	Chime Zone Alarm Beeps Keypad #8	✓	
P139E 1-16E	**ZONE TAMPER ALARM BEEPS TO KEYPADS**			
	0	Not used		
	1	Zone Tamper Alarm Beeps Keypad #1	✓	
	2	Zone Tamper Alarm Beeps Keypad #2	✓	
	3	Zone Tamper Alarm Beeps Keypad #3	✓	
	4	Zone Tamper Alarm Beeps Keypad #4	✓	
	5	Zone Tamper Alarm Beeps Keypad #5	✓	
	6	Zone Tamper Alarm Beeps Keypad #6	✓	
	7	Zone Tamper Alarm Beeps Keypad #7	✓	
	8	Zone Tamper Alarm Beeps Keypad #8	✓	
P140E 1-16E	**RADIO SUPERVISE ALARM BEEPS TO KEYPADS**			
	1	Radio Supervise Alarm Beeps Keypad #1		
	2	Radio Supervise Alarm Beeps Keypad #1		
	3	Radio Supervise Alarm Beeps Keypad #3		
	4	Radio Supervise Alarm Beeps Keypad #4		
	5	Radio Supervise Alarm Beeps Keypad #5		
	6	Radio Supervise Alarm Beeps Keypad #6		
	7	Radio Supervise Alarm Beeps Keypad #7		
	8	Radio Supervise Alarm Beeps Keypad #8		

P141E 1-16E	**ZONE SENSOR-WATCH ALARM BEEPS TO KEYPADS**			
	1	Zone Sensor-watch Alarm Beeps Keypad #1		
	2	Zone Sensor-watch Alarm Beeps Keypad #2		
	3	Zone Sensor-watch Alarm Beeps Keypad #3		
	4	Zone Sensor-watch Alarm Beeps Keypad #4		
	5	Zone Sensor-watch Alarm Beeps Keypad #5		
	6	Zone Sensor-watch Alarm Beeps Keypad #6		
	7	Zone Sensor-watch Alarm Beeps Keypad #7		
	8	Zone Sensor-watch Alarm Beeps Keypad #8		
P142E 1-16E	**ARMED ZONE ENTRY DELAY BEEPS TO KEYPADS**			
	1	Armed Zone Entry Delay Beeps Keypad #1	✓	
	2	Armed Zone Entry Delay Beeps Keypad #2	✓	
	3	Armed Zone Entry Delay Beeps Keypad #3	✓	
	4	Armed Zone Entry Delay Beeps Keypad #4	✓	
	5	Armed Zone Entry Delay Beeps Keypad #5	✓	
	6	Armed Zone Entry Delay Beeps Keypad #6	✓	
	7	Armed Zone Entry Delay Beeps Keypad #7	✓	
	8	Armed Zone Entry Delay Beeps Keypad #8	✓	
P143E 1-16E	**STAY MODE ENTRY DELAY BEEPS TO KEYPADS**			
	1	Stay Mode Entry Delay Beeps Keypad #1	✓	
	2	Stay Mode Entry Delay Beeps Keypad #2	✓	
	3	Stay Mode Entry Delay Beeps Keypad #3	✓	
	4	Stay Mode Entry Delay Beeps Keypad #4	✓	
	5	Stay Mode Entry Delay Beeps Keypad #5	✓	
	6	Stay Mode Entry Delay Beeps Keypad #6	✓	
	7	Stay Mode Entry Delay Beeps Keypad #7	✓	
	8	Stay Mode Entry Delay Beeps Keypad #8	✓	
P144E 1-16E	**ARMED ZONE ENTRY DELAY TIMES** Enter a value 0-9999 seconds. (Default Zone # 1 = 20 Seconds, Zones # 2-16 = 0)			
P145E 1-16E	**STAY MODE ENTRY DELAY TIMES** Enter a value 0-9999 seconds. (Default Zones # 1-4=20 Seconds, Zones # 5-16=0)			
P146E 1-16E	**ZONE RE-TRIGGER TIMES** Enter a value of 0-255 minutes. (Default = 0 Minutes)			
P147E 1-16E	**ZONE ALARM 4+2 REPORTING CODE** Enter a two digit value 00-FF			
P148E 1-16E	**ZONE ALARM RESTORE 4+2 CODE** Enter a two digit value 00-FF			
P149E 1-16E	**ZONE NEAR ALARM 4+2 REPORTING CODE** Enter a two digit value 00-FF			

P150E 1-16E	**ZONE NEAR ALARM RESTORE 4+2 CODE** Enter a two digit value 00-FF			
P151E 1-16E	**ZONE NEAR ALARM RESTORE 4+2 CODE** Enter a two digit value 00-FF			
P152E 1-16E	**ZONE INTRUSION VERIFIED ALARM RESTORE 4+2 CODE** Enter a two digit value 00-FF			
P155E 1-16E	**ZONE BYPASS ALARM 4+2 REPORTING CODE** Enter a two digit value 00-FF			
P156E 1-16E	**ZONE BYPASS RESTORE 4+2 CODE** Enter a two digit value 00-FF			
P157E 1-16E	**ZONE ALARM CONTACT ID REPORTING CODE** (Default = 130)			
P158E 1-16E	**ZONE NEAR ALARM CONTACT ID REPORTING CODE** (Default = 138)			
P159E 1-16E	**ZONE INTRUSION VERIFIED ALARM CONTACT ID REPORTING CODE** (Default = 139)			
P160E 1-16E	**ZONE ALARM VOICE MESSAGE NUMBER** Enter a value 0-99 (Default = 1)			
P161E 1-16E	**AWAY ZONE ENTRY DELAY TO OUTPUTS**			
	1	Armed Zone Entry Delay to output #1		
	2	Armed Zone Entry Delay to output #2		
	3	Armed Zone Entry Delay to output #3		
	4	Armed Zone Entry Delay to output #41		
	5	Armed Zone Entry Delay to output #5		
	6	Armed Zone Entry Delay to output #6		
	7	Armed Zone Entry Delay to output #7		
	8	Armed Zone Entry Delay to output #8		
P162E 1-16E	**STAY MODE ENTRY DELAY TO OUTPUTS**			
	1	Stay Mode Entry Delay to output #1		
	2	Stay Mode Entry Delay to output #2		
	3	Stay Mode Entry Delay to output #3		
	4	Stay Mode Entry Delay to output #4		
	5	Stay Mode Entry Delay to output #5		
	6	Stay Mode Entry Delay to output #6		
	7	Stay Mode Entry Delay to output #7		
	8	Stay Mode Entry Delay to output #8		
P163E 1-16E	**SENSOR-WATCH TIMER** Enter a value 0-9999 Minutes (Default = 7200 minutes [120 Hours])			
P164E 1-16E	**ENROLLING (LEARN) RADIO ZONE CODES**			

P165E 1-16E	**DELETE A SPECIFIC RADIO ZONE CODE**
P166E 1-16E	**FIND RADIO ZONE MEMORY LOCATION** Finds the zone number of any Radio Zone code stored in the panel. When using the LED Keypad press the **0E** keys in sequence.

TIME ZONES

P170E 1-16E	**PROGRAMMING HOLIDAYS** Holidays 1-8 Days enter the values as **DDMMYY**			
P171E 1-16E	**PROGRAMMING TIME ZONE DAYS** Time Zones 1-8 Days (Default = All Off)			
	1	Sunday		
	2	Monday		
	3	Tuesday		
	4	Wednesday		
	5	Thursday		
	6	Friday		
	7	Saturday		
	8	Invert		
P172E 1-8E	**TIME ZONES 1-8 START TIME** Enter a value 0000-2359 (Default = 0000)			
P173E 1-8E	**TIME ZONES 1-8 END TIME** Enter a value 0000-2359 (Default = 0000)			
P174E 1-8E	**TIME ZONE 1-8 OPTIONS** (Default = All off)			
	1	Ignore Holidays		
	2	Spare		

DIALLER

P175E 1E	**DIALLER PROGRAMMING OPTIONS 1**			
	0	Not used		
	1	Dialler is Enabled		
	2	Fax Defeat		
	3	Disable Telephone Line Monitoring		
	4	DTMF or Pulse Dial (For DTMF 4&5 must be both OFF)		
	5	DTMF or Reverse Pulse Dial (For DTMF, 4&5 must be both OFF)		
	6	Send long DTMF tones during dialling		
	7	Auto Detect Modem Mode	✓	
	8	Bell 103 or V21		
P175E 2E	**DIALLER PROGRAMMING OPTIONS 2**			
	1	Step number on each call	✓	
	2	Upload/Download use callback		
	3	Upload/Download only if disarmed		
	4	Test calls only if armed		
	5	Spare		
	6	Hold line open following Domestic/Voice report for DTMF control		
	7	First to Open Last to Close Reporting		
	8	Spare		
P175E 3E	**AUTO-ANSWER RING COUNT** Enter a value 0-99 (Default = 25)		**25**	
P175E 4E	**TIME TO THE FIRST DIALLER TEST CALL** Enter a value 0-2359 (Default = 2300)		**2300**	
P175E 5E	**TEST CALL TIME PERIOD** Enter a value 0-255 hours 0 = No test (Default = 24)		**24**	
P175E 6E	**KEYPAD LISTEN-IN OPTIONS** (Default = 1-7)			
	1	Enabled During Dialling in Disarm State only	✓	
	2	Enabled During Dialling in Armed State only	✓	
	3	Enabled During Dialling in Stay Mode State only	✓	
	4	Enabled Throughout the call in Disarm State only	✓	
	5	Enabled Throughout the call in Armed State only	✓	
	6	Enabled Throughout the call in Stay Mode State only	✓	
	7	Listen-in Enabled when the panel answers a call	✓	
	8	Enabled at All Times		

P175E 7E	**OUTPUT # 1 LISTEN-IN OPTIONS** (Default = All Off)			
	1	Enabled During Dialling in Disarm State only		
	2	Enabled During Dialling in Armed State only		
	3	Enabled During Dialling in Stay Mode State only		
	4	Enabled Throughout the call in Disarm State only		
	5	Enabled Throughout the call in Armed State only		
	6	Enabled Throughout the call in Stay Mode State only		
	7	Listen-in Enabled when the panel answers a call		
	8	Enabled at All Times		
P175E 8E	**DIALLING PRE-FIX NUMBER** Enter a value 1-16 digits (Default = 0)		**0**	
P175E 9E	**PANIC ALARM CONTACT ID REPORTING CODE** (Default = 120)		**120**	
P175E 10E	**FIRE ALARM CONTACT ID REPORTING CODE** (Default = 110)		**110**	
P175E 11E	**MEDICAL ALARM CONTACT ID REPORTING CODE** Enter a value 1-4 digit code (1-9999) (Default = 0)		**0**	
P175E 12E	**OUTPUT COMMAND CONTROL CODE NUMBER** Enter a value 1-4 digit code (1-9999) (Default = 0)		**0**	
P175E 13E	**MICROPHONE ON/OFF CMD CONTROL CODE NUMBER** Enter a value 1-4 digit code (1-9999) (Default = 0)		**0**	
P175E 14E	**DIALLER ACKNOWLEDGE CODE** Voice/Domestic Acknowledge Code Enter a value 1-4 digit code (1-9999) (Default = 0)		**0**	
P175E 15E	**FORCE TEST CALL CODE** Enter a value 1-4 digit code (1-9999) (Default = 0 disables the feature)		**0**	
P176 1E-11E	**PROGRAMMING VOICE BOARD MESSAGES**			
P176E 1E	**KEYPAD OR RADIO PANIC ALARM VOICE MESSAGE NUMBER** Enter a value 0-99		**1**	
P176E 2E	**FIRE ALARM VOICE MESSAGE NUMBER** Enter a value 0-99		**1**	
P176E 3E	**MEDICAL ALARM VOICE MESSAGE NUMBER** Enter a value 0-99		**1**	
P176E 4E	**MAINS FAILURE VOICE MESSAGE NUMBER** Enter a value 0-99		**1**	
P176E 5E	**MAINS RESTORE VOICE MESSAGE NUMBER** Enter a value 0-99		**1**	
P176E 6E	**BATTERY LOW VOICE MESSAGE NUMBER** Enter a value 0-99		**1**	
P176E 7E	**BATTERY RESTORED VOICE MESSAGE NUMBER** Enter a value 0-99		**1**	

P176E 8E	**TAMPER (ZONE/RADIO/SYSTEM) VOICE MESSAGE NUMBER** Enter a value 0-99	**1**	
P176E 9E	**DURESS ALARM VOICE MESSAGE NUMBER** Enter a value 0-99	**1**	
P176E 10E	**LATCHKEY DISARM VOICE MESSAGE NUMBER** Enter a value 0-99	**1**	
P176E 11E	**MANUAL TEST INITIATED VOICE MESSAGE** Enter a value 0-99	**1**	

TELEPHONE NUMBERS

P181E 1-8E	**PROGRAMMING TELEPHONE NUMBER** Enter a value 1-16 digit code (Default = 0)		**0**	
P182E 1-8E	**TELEPHONE NUMBER REPORTING FORMATS**			
	1	Contact ID	✓	
	2	Domestic Dial		
	3	Pager		
	4	Speech Dialler		
	5	4+2 10pps (Handshake 1400/ Tone 1900)		
	6	4+2 10pps (Handshake 2300/ Tone 1800)		
	7	4+2 20pps (Handshake 1400/ Tone 1900)		
	8	4+2 20pps (Handshake 2300/ Tone 1800)		
	9	4+2 DTMF (with Checksum)		
P183E 1-8E	**TELEPHONE NUMBER REPORTING OPTIONS**			
	1	Stop Dialling if Kissed off	✓	
	2	Monitor Call Progress	✓	
	3	Blind Dial		
	4	Use Group Numbers for Contact ID Reporting		
	5	Spare		
	6	Auto Kiss-off for Voice/Domestic Reporting		
	7	Use the Dialling Pre-fix		
	8	Is to be used as the “Call-back” Number		
P184E 1-8E	**MAXIMUM DIAL ATTEMPTS PER TELEPHONE NUMBER** Enter a value 0-99		**20**	
P186E 1-8E	**DIALLER REPORTING OPTIONS A**			
	1	Report Mains Failure	✓	
	2	Report Battery Low	✓	
	3	Report Radio Battery Low	✓	
	4	Report Line Fail	✓	
	5	Report System Tamper	✓	
	6	Report Keypad Tamper	✓	
	7	Report Zone Tamper	✓	
	8	Report Radio Zone Tamper	✓	

P187E 1-8E	**DIALLER REPORTING OPTIONS B**			
	1	Report Duress Alarm	✓	
	2	Report Supervised Radio Alarm	✓	
	3	Report Zone Sensor-watch Alarm	✓	
	4	Report Manual Panic Alarm	✓	
	5	Report Manual Fire Alarm	✓	
	6	Report Manual Medical Alarm	✓	
	7	Report Radio Pendant Panic Alarm	✓	
	8	Report Zone Bypasses	✓	
P188E 1-8E	**DIALLER REPORTING OPTIONS C**			
	1	Report Arm/Disarm	✓	
	2	Report Stay Mode Arm/Disarm		
	3	Report Disarm only after an Activation		
	4	Report Stay Mode Disarm only after an Activation		
	5	Report Stay Mode Zone Alarms		
	6	Report Access to Program Mode		
	7	Report 24 Hour Alarms if Domestic/Voice mode set		
	8	Report Zone Restores	✓	
P189E 1-8E	**DIALLER REPORTING OPTIONS D**			
	1	Report Latchkey Disarm		
	2	Report Delinquent		
	3	Report Tests	✓	
	4	Report Fuse Failure	✓	
	5	Report Output 1 or 2 Fail		
	6	Spare		
	7	Spare		
	8	Spare		
P192E 1-8E	**DIVERT AREA EVENTS** (**1** = Area A and **2** = Area B)			
	1	Dial on away arm		
	2	Dial on away disarm		
	3	Dial on stay arm	✓	
	4	Dial on stay disarm	✓	
	5	Dial if Key-switch activation		
	6	Dial if Time zone activation		
	7	Dial if DTMF or PC activation		
	8	Dial if keypad ARM or STAY single button activation		

P193E 1-8E	**DIVERT NUMBER OPTIONS** (**1** = Divert on and **2** = Divert off)			
	1	Spare		
	2	Spare		
	3	Blind Dial		
	4	Spare		
	5	Spare		
	6	Spare		
	7	Use the Dialling Pre-fix		
	8	Spare		
P194E 1-8E	**DIVERT NUMBERS** (**1** = Divert on and **2** = Divert off) Enter a value 1-16 digits			
	1	Divert on		
	2	Divert off		

MISCELLANEOUS 4+2 PROGRAM OPTIONS

P195 1E-4E	**MAINS & BATTERY 4+2 REPORTING CODES**		
P195E 1E	**MAINS FAILURE 4+2 CODE** Enter a value of 2 digits (00-FF)		
P195 2E	**MAINS FAILURE RESTORE 4+2 CODE** Enter a value of 2 digits (00-FF)		
P195E 3E	**LOW BATTERY 4+2 CODE** Enter a value of 2 digits (00-FF)		
P195E 4E	**LOW BATTERY RESTORE 4+2 CODE** Enter a value of 2 digits (00-FF)		
P195E **5E-6E**	**MAINS & BATTERY 4+2 REPORTING CODES**		
P195E 5E	**4+2 ALARM CODE FOR SYS TAMPER** Enter a value of 2 digits (00-FF)		
P195E 6E	**4+2 ALARM CODE FOR SYS TAMPER RESTORE** Enter a value of 2 digits (00-FF)		
P195E 7E-8E	**REMOTE ARM/DISARM 4+2 REPORTING CODES**		
P195E 7E	**4+2 CODE FOR REMOTE ARMING (FULL ARM OR STAY MODE ARM)** Enter a value of 2 digits (00-FF)		
P195E 8E	**4+2 CODE FOR REMOTE DISARM** Enter a value of 2 digits (00-FF)		
P195E 9E	**DURESS ALARM 4+2 REP. CODE (FULL ARM OR STAY MODE ARM)** Enter a value of 2 digits (00-FF)		
P195E 10E	**AUTOMATIC TEST 4+2 REPORTING CODE** Enter a value of 2 digits (00-FF)		
P195E 11E	**ARMED BY ARM BUTTON 4+2 REPORTING CODE** Enter a value of 2 digits (00-FF)		
P195 E12E	**STAY MODE ARMING 4+2 REPORTING CODE** Enter a value of 2 digits (00-FF)		
P195 E13E	**DISARMED BY ARM OR STAY BUTTON 4+2 REP CODE** Enter a value of 2 digits (00-FF)		
P195E 14-15E	**ARMED/DISARM BY KEY-SW 4+2 REP CODE**		
P195E 14E	**4+2 ARM BY KEY-SWITCH CODE** Enter a value of 2 digits (00-FF)		
P195E 15E	**4+2 DISARM BY KEY-SWITCH CODE** Enter a value of 2 digits (00-FF)		
P195E 16E	**TIME ZONE ARM FAILURE 4+2 REPORTING CODE** Enter a value of 2 digits (00-FF)		
P195E 17E	**KEYPAD PANIC ALARM 4+2 REPORTING CODE** Enter a value of 2 digits (00-FF)		
P195E 18E	**KEYPAD PANIC ALARM 4+2 RESTORE REP CODE** Enter a value of 2 digits (00-FF)		

P195E 19E	**KEYPAD FIRE ALARM 4+2 REPORTING CODE** Enter a value of 2 digits (00-FF)		
P195E 20E	**KEYPAD FIRE ALARM 4+2 RESTORE REP CODE** Enter a value of 2 digits (00-FF)		
P195E 21E	**KEYPAD MEDICAL ALARM 4+2 REPORTING CODE** Enter a value of 2 digits (00-FF)		
P195E 22E	**KEYPAD MEDICAL ALARM 4+2 RESTORE REP CODE** Enter a value of 2 digits (00-FF)		
Panel Diagnostic & Default Options			
P200E 1E	**DISPLAY PANEL SOFTWARE VERSION NUMBER**		
P200E 2E	**DISPLAY KEYPAD ADDRESS NUMBER**		
P200E 3E	**DISPLAY AREAS ASSIGNED TO THIS KEYPAD** Displays Areas Assigned to this Keypad		
P200E 4E	**DISPLAY ACTIVE TIME ZONES**		
P200E 5E	**DISPLAY BATTERY VOLTAGE**		
P200E 6E	**WALK TEST MODE**		
P200E 7E	**WRITE TO EEPROM (DTU) BOARD**		
P200E 8E	**READ FROM EEPROM (DTU) BOARD**		
P200E 9E	**RESTORE USER & INSTALLER CODES PLUS TELEPHONE NUMBERS TO DEFAULTS**		
P200E 10E	**RESTORE ALL FACTORY DEFAULTS**		
P200E 11E	**CLEAR ALARM MEMORY BUFFER**		
P200E 12E	**INITIATE A CALL TO THE CALL-BACK**		

Installation Records

This section is to be used by the installer to record any changes made to the default values. There are three tables; Users, Zones and Phone Numbers.

User Configuration

User Information								Wireless							
	User	P1E	P2E	P3E	P4E	P5E	P7E	P8E	P11E	P15E	P9E	P10E	P12E	P12E	P14E
#	Name	Code	Type	Area	Access	Privileges	Type	Privileges	Beeps	Panic2OP	TimeZ	Keypad	Output	ON	OFF
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															

User Information								Wireless							
	User	P1E	P2E	P3E	P4E	P5E	P7E	P8E	P11E	P15E	P9E	P10E	P12E	P12E	P14E
#	Name	Code	Type	Area	Access	Privileges	Type	Privileges	Beeps	Panic2OP	TimeZ	Keypad	Output	ON	OFF
16															
17															
18															
19															
20															
21															
22															
23															
24															
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36															
37															
38															
39															
40															

User Information								Wireless							
	User	P1E	P2E	P3E	P4E	P5E	P7E	P8E	P11E	P15E	P9E	P10E	P12E	P12E	P14E
#	Name	Code	Type	Area	Access	Privileges	Type	Privileges	Beeps	Panic2OP	TimeZ	Keypad	Output	ON	OFF
41															
42															
43															
44															
45															
46															
47															
48															
49															
50															
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61															
62															
63															
64															
65															

User Information								Wireless							
	User	P1E	P2E	P3E	P4E	P5E	P7E	P8E	P11E	P15E	P9E	P10E	P12E	P12E	P14E
#	Name	Code	Type	Area	Access	Privileges	Type	Privileges	Beeps	Panic2OP	TimeZ	Keypad	Output	ON	OFF
66															
67															
68															
69															
70															
71															
72															
73															
74															
75															
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86															
87															
88															
89															
90															

User Information								Wireless							
	User	P1E	P2E	P3E	P4E	P5E	P7E	P8E	P11E	P15E	P9E	P10E	P12E	P12E	P14E
#	Name	Code	Type	Area	Access	Privileges	Type	Privileges	Beeps	Panic2OP	TimeZ	Keypad	Output	ON	OFF
91															
92															
93															
94															
95															
96															
97															
98															
99															
100															

Zone Configuration

		P121E	P122E	P123	P124E	P125E	P126E	P127E
ZONE	ZONE NAME	ASSIGNED AREA A/B	OPTION A	OPTION B	OPTION C	EOL	RESPONSE TIME	DETECTOR TYPE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

Phone Numbers

	P181E 8E	P182E 1-8E		P183E 1-8E
#	TELEPHONE NUMBER	FORMAT	RETRIES	REPORT OPTIONS
1				
2				
3				
4				
5				
6				
7				
8				

89CROW ELECTRONIC ENGINEERING LTD. (Crow) WARRANTY POLICY CERTIFICATE

This Warranty Certificate is given in favor of the purchaser (hereunder the "**Purchaser**") purchasing the products directly from Crow or from its authorized distributor.

Crow warrants these products to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the last day of the week and year whose numbers are printed on the printed circuit board inside these products (hereunder the "**Warranty Period**").

Subject to the provisions of this Warranty Certificate, during the Warranty Period, Crow undertakes, at its sole discretion and subject to Crow's procedures, as such procedures are form time to time, to repair or replace, free of charge for materials and/or labor, products proved to be defective in materials or workmanship under normal use and service. Repaired products shall be warranted for the remainder of the original Warranty Period.

All transportation costs and in-transit risk of loss or damage related, directly or indirectly, to products returned to Crow for repair or replacement shall be borne solely by the Purchaser.

Crow's warranty under this Warranty Certificate does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or any part thereof) by anyone other than Crow; (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product which Crow did not provide; (d) failure caused by software or hardware which Crow did not provide; (e) use or storage other than in accordance with Crow’s specified operating and storage instructions.

There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend beyond the description on the face hereof.

This limited Warranty Certificate is the Purchaser's sole and exclusive remedy against Crow and Crow's sole and exclusive liability toward the Purchaser in connection with the products, including without limitation - for defects or malfunctions of the products. This Warranty Certificate replaces all other warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise.

In no case shall Crow be liable to anyone for any consequential or incidental damages (inclusive of loss of profit, and whether occasioned by negligence of the Crow or any third party on its behalf) for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Crow does not represent that these products can not be compromised or circumvented; that these products will prevent any person injury or property loss or damage by burglary, robbery, fire or otherwise; or that these products will in all cases provide adequate warning or protection.

Purchaser understands that a properly installed and maintained product may in some cases reduce the risk of burglary, fire, robbery or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss or damage as a result.

Consequently, Crow shall have no liability for any personal injury; property damage or any other loss based on claim that these products failed to give any warning.

If Crow is held liable, whether directly or indirectly, for any loss or damage with regards to these products, regardless of cause or origin, Crow’s maximum liability shall not in any case exceed the purchase price of these products, which shall be the complete and exclusive remedy against Crow.

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