



ELECTRONIC ENGINEERING LTD.

Runner Series

8/16 ZONE WIRELESS AND WIRED
ALARM CONTROL PANEL

COVERS:

RUNNER-16 (16 ZONE IN POLY BOX)

&

RUNNER-8 (8 ZONE IN POLY BOX)

&

Runner-Plus (16 Zone in Compact Box)

Technician's Handbook

Version 9.08.9A/L

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Tech Support:

Dear Crow Products Installer,

Please contact your Crow Products Supplier for Technical Assistance. In the rare occasion that your supplier is unable to assist you, they will contact Crow for Technical assistance specific to your concerns and will then be able to assist you.

Warning:

This equipment must only be installed and maintained by qualified service personnel.

Designed & Manufactured to Meet:

AS/NZS:4301/93 + AS/NZS:3260 (A:1-4) + CISPR-22 (2006) + AS/ACIF S001 +
AS/ACIF S002:2005 + AS/ACIF S004:2004



N345 - Product # CRPW08G

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 in 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**

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 Runner-8 1-8E	Set the zones in use as active Turn on option 1 (zone active).
2	P121E 1-16E Runner-8 1-8E	Select zone area assignment.
3	P125E 1-8E Runner-8 1-4E	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. Option-1 = Area A, Option-2 = Area B
3	P122E 1-16E	Set the zone type (Radio Zone = Option-5 ON)
4	P127E 1-16E	Set radio zone detector type.
5	P164E 1-16E	Learn (Recognize) the detector. For a detailed explanation see ENROLLING (LEARN) RADIO ZONE CODES section on page-35.

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. 1=CID, 2=Domestic, 3=Voice
5	P62E 1-2E	CID Account Code can be programmed here in cases the Dialler will be reporting in CID (Contact-ID) format.

Step 6: Assigning the Keypad Area

Address	Description
P71E 1-8E	Assign the keypad to the correct area. Option-1 = Area A, Option-2 = Area B

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.
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Step 9: Armed Entry Delays

Address	Description
P144E 1-16E Runner-8 1-8E	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 Runner-8 1-8E	Zone 1 entry delay when armed in Stay Mode is P145E1E and can have a value of 0-9999 seconds. The Stay Mode entry delay of Zone 16 is at address P145E16E. 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.

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USERS

Address	Description	Def	New
P1E 1-100	PROGRAMMING USER CODES Example = 1234 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 User 1 Code=123	✓*	
P2E 1-100E	USER TYPE Code/Radio/Access tag-Card Defaults for user 1-40 =4 Defaults for users 41-100 =1		
	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 User 1-100 = 1		
	1 Assigned to Area "A"	✓	
	2 Assigned to Area "B"		
P4E 1-100E	USER CODE ACCESS OPTIONS User 1-40 = 1,2,3,4,8 User 41,45,49,53,57, = 1,3,4,8 User 42,46,50,54,58 = 2,4,8 User 43,47,51,55,59 = 8,(Delay Panic – see P8E) User 44,48,52,56,60 = 8,(Output-4 control – see P12E 4E, P13 4E, P14E 4E) User 61,66,71,76,81,86,91,96 = 3,4,8 User 62,67,72,77,82,87,92,97 = 1,8 User 63,68,73,78,83,88,93,98 = 2,8 User 64,69,74,79,84,89,94,99 = 8,(Output-4 control – see P12E 4E, P13 4E, P14E 4E) User 65,70,75,80,85,90,95,100 = 8, (Delay Panic – see P8E) (All other Users are not assigned in this location)		
	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 User can View Event Memory	✓	

P5E 1-100E	USER CODE ACCESS OPTIONS		
	Defaults for user 1 = 2,3,4,5,6,7,8		
	Defaults for users 2-100 = 1		
	1	User can Change their Code (Default for users 2-100)	✓
	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	✓*
P7E 21-100E	RADIO USER TYPE (Applies to Users 21-100 Only)		
	User 21-100 = 1		
	0	Generic (general Pendant Type)	
	1	Crow Freewave Pendant	✓
P8E 21-100E	RADIO USER PRIVILEGES		
	User 21-42,45,46,49,50,53,54,57,58,61,65,66,70,71,75,76,80,81,85,86,90,91,95,96,100 = 1		
	User 43,47,51,55,59,65,70,75,80,85,90,95,100 = 3		
	(All other Users are not assigned in this location)		
	1	Pendant Can Disarm at All Times	✓*
	2	Pendant Causes Immediate Panic	
	3	Pendant Causes Delayed Panic (1.5 Sec)	✓*
	4	Pendant only works during entry delay	
	5	This User is a dedicated Duress Code	
	6	Spare	
P9E 1-100E	TIME ZONE ASSIGNED TO A USER		
	Users 1-100=None		
	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		
	User 1-100 :All Keypads		
	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		
	User 21-100 :All Keypads		
	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		
	Users 44,48,52,56,60,64,69,74,79,84,89,94,99=4		
	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		
	Users 44,48,52,56,60,64,69,74,79,84,89,94,99=4		
	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		
	Users 44,48,52,56,60,64,69,74,79,84,89,94,99=4		
	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		
	Users 21-100=1,2		
	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)	2880 min	
P25 5E	TWO TRIGGER TIMER (0-255 sec)	60 sec	
P25 6E	MAINS FAIL REPORTING DELAY (0-9999 sec)	900 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 Default: 1,2, 6		
	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 (no signal or jamming)	
	6	Send output information to keypad bus	✓
	7	Cannot arm if the system battery is low & AC Fail	
	8	Installer Lockout	
P25 11E	INSTALLER OPTIONS Default: None		
	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	Cannot arm if missing keypad	
	6	Cannot arm if phone line fail	
	7	Keypad Lockout after 10 faults codes	
	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	none
P25	MISCELLANEOUS USER OPTIONS		

13E	Default : 2		
	1	Code Required to View Memory	
	2	Cancel Handover Zone Function in Stay Mode	✓
	3	Output Control from Keypad is Disabled when Armed	
	4	Keypad Codes are Disabled During Entry Delay	
	5	No Keypad Indications while Armed	
	6	Monitored KP Buss Output Board	
	7	Enable Keypad Tamper	
	8	Limit Events & Dialler to 3 of any one type	
P26	SETTING THE REAL TIME CLOCK		
P26 1E	REAL TIME HOUR/MINUTE (0-2359)		
P26 2E	REAL 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 020906 = 2nd Sept 2006		
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			
	Output 1,3,5,6,7,8 = None			
	Output 2 = 2			
	Output 4 = 3			
	1	Invert Output		
	2	Flash Output - Output 2	✓	
	3	Single Pulse to Output - Output 4	✓	
	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			
	Defaults for outputs 1,2,3 = 7			
	Defaults for outputs 4-8 = none			
	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	Zone Radio Supervised Signal Failure		
	6	Sensor-Watch Alarm		
7	System Tamper to Output (only for Outputs 1 & 2 & 3)	✓*		
8	Receiver Failure			
P36E 1-8E	PROGRAMMING OUTPUT OPTIONS C			
	Outputs 1,2 = 1			
	Outputs 3-8= None			
	1	Walk Test Pulse to Output (only for Outputs 1 & 2)	✓*	
	2	Pulse Output every 5 seconds when Disarmed		
	3	Pulse Output on Kiss-off Following Arming		
	4	Pulse Output on Kiss-off Following a Zone Alarm		
	5	Disable During dial Delay (P25E 3E)		
	6	Spare		
7	Spare			
8	Spare			

P37E 1-8E	PROGRAMMING OUTPUT OPTIONS D		
	Default for outputs 1-8 : None		
	1	Siren Driver to Output (requires a horn speaker, outputs 1&2)	
	2	Output Reset/Chime Timers are in Minutes	
	3	Output muted for 10 seconds on key-press if alarm	
	4	Turn Output OFF during Two Way Voice Mode	
	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 1-8 = 0 Sec	0	
P39E 1-8E	OUTPUT PULSE TIME Enter a value 0-255 for 1/10th Sec increments Output 1 = 3 Output 2 = 7 Output 3 = 3 Output 4 = 10 Default 5-8 = 0	←	
P40E 1-8E	OUTPUT RESET TIME Enter a value 0-9999 Seconds (Default = 300 Sec) (if option 2 at P37E is on the reset time is in minutes) Output 1 = 300 Output 2 = 0 (Latching) Output 3 = 300 Output 4 = 5 Default 5-8 = 0	←	
P41E 1-8E	OUTPUT CHIME MODE TIME Enter a value 0-255 for 1/10th Sec increments Default 1-8 = 20 (2Sec)	20	
P42E 1-8E	START OF OUTPUT COMMAND CONTROL STATUS MESSAGES Enter a value 0-99 Outputs 1-8 = 0	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. 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. Default Area 1&2 = None		
	1 Arm button required before code to Arm (set)		
	2 Stay button required before code to Arm (set) stay mode		
	3 Code required to Arm (set)		
	4 Code required to bypass zones		
	5 Spare		
	6 Send Arm (Closing) 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 Default Area 1&2 = None		
	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 Cannot Arm if Zone Unsealed at end of Exit Delay		
	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 Area 1&2 = None		
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 Area 1&2 = None		
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 Area 1&2 = none		
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 Area 1&2 = Outputs 1,2,3	←	
P51E 1-2E	AREAS A & B PENDANT/ACC. TAG STAY ARM BEEP TO OUTPUT	←	

	<p>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 Area 1&2 = Outputs 1,2</p>		
<p>P52E 1-2E</p>	<p>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 Area 1&2 = Outputs 1,2,3</p>	←	
<p>P53E 1-2E</p>	<p>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 Area 1&2 = Outputs 1,2</p>	←	
<p>P54E 1-2E</p>	<p>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. Area 1&2 = None</p>		
<p>P55E 1-2E</p>	<p>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. Area 1&2 = None</p>		
<p>P56E 1-2E</p>	<p>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. Area 1&2 = None</p>		
<p>P57E 1-2E</p>	<p>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. Area 1&2 = None</p>		
<p>P58E 1-2E</p>	<p>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 = Only Keypads 1,2</p>	1,2	
<p>P59E 1-2E</p>	<p>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 = Only Keypads 1,2</p>	1,2	
<p>P60E 1-2E</p>	<p>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 Area 1&2 = 60 Sec</p>	60	
<p>P61E 1-2E</p>	<p>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 = Default Area 1&2 = 60 Sec</p>	60	

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 Area 1&2 = 0000		
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 Area 1&2 = 0		
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 Area 1&2 = 0		
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 Area 1&2 = None		
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 Area 1&2 = None		
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 Area 1&2 = 0		
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 Area 1&2 = None		

KEYPADS

P71E 1-8E	KEYPAD AREA ASSIGNMENT Option 1 = Area A and Option 2 = Area B Default = All 8 Keypads assigned to area A (Eg: If Keypad-3 is to be assigned to Area-B, then Press; P71E 3E (for Keypad-3) then 2E (for Area-B))				
P72E 1-8E	KEYPAD BUTTON OPTIONS Default Keypads 1 - 8 = 1 - 8				
	1	CHIME or CONTROL PROGRAM buttons enabled	✓		
	2	BYPASS button enabled	✓		
	3	PANIC button enabled	✓		
	4	Delayed panic on PANIC button	✓		
	5	<1>+<3> (on LED K/P) or <CONTROL>+<CHIME> (on LCD K/P) = Panic Alarm Enabled	✓		
	6	<4>+<6> (on LED K/P) or <A>+ (on LCD K/P) = Fire Alarm Enabled	✓		
	7	<7>+<9> (on LED K/P) or +<CHIME> (on LCD K/P) = Medical Alarm Enabled	✓		
8	Stay Armed Beep to Keypad	✓			
P73E 1-8E	ALARM BEEPS & LED CONTROL TO KEYPAD Keypads 1-8: Options 5, 8 ON.				
	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 /after 90 sec if not touched			
8	Turn Off Keypad & Backlight LED's on Mains Failure	✓			
P74E 1-8E	KEYPAD ARM BUTTON AREA ASSIGNMENT Keypads 1-8: Option 1 ON.				
	1	ARM Button assigned to Area A	✓		
2	ARM Button assigned to Area B				
P75E 1-8E	KEYPAD ARM BUTTON AREA OPTIONS Keypads 1-8: Options 1, 7 ON.				
	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		
	Keypads 1-8: Option 1 ON.		
	1	STAY Button assigned to Area A	✓
	2	STAY Button assigned to Area B	
P77E 1-8E	KEYPAD STAY BUTTON AREA OPTIONS Keypads 1-8 = 2,8		
	1	STAY Button can Arm	
	2	STAY Button can Stay Mode Arm	✓
	3	STAY Button can Disarm at All Times	
	4	STAY Button can Disarm Stay Mode at All Times	
	5	STAY Button can Reset Alarms	
	6	STAY Button can Arm Latchkey Mode	
	7	STAY Button can Disarm During Exit Delay	
	8	STAY Button can Disarm Stay Mode During Exit Delay	✓
P78E 1-8E	KEYPAD A BUTTON AREA ASSIGNMENT		
	Keypads 1-8 = 1		
	1	A Button assigned to Area A	✓
	2	A Button assigned to Area B	
P79E 1-8E	KEYPAD A BUTTON AREA OPTIONS		
	Keypads 1-8 = 1, 7.		
	1	A Button can Arm	✓
	2	A Button can Stay Mode Arm	
	3	A Button can Disarm at All Times	
	4	A Button can Disarm Stay Mode at All Times	
	5	A Button can Reset Alarms	
	6	A Button can Arm Latchkey Mode	
	7	A Button can Disarm During Exit Delay	✓
	8	A Button can Disarm Stay Mode During Exit Delay	
P80E 1-8E	KEYPAD B BUTTON AREA OPTIONS		
	Keypads 1-8 = none		
	1	B Button assigned to Area A	
	2	B Button assigned to Area B	
P81E 1-8E	KEYPAD B BUTTON AREA OPTIONS		
	Keypads 1-8 = 1, 7 (see also next page)		
	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		
	Keypads 1-8 = 1-8 ON		
	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)		
	Keypads 1-8 = 1-8 ON		
	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 is linked to Output # 5	✓
	6	Keypad Control Button is linked to Output # 6	✓
	7	Keypad Control Button is 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		
	Keypads 1-8: Options 1, 2 ON.		
	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		
	Keypads 1-8 = 1, 2 (see also next page)		
	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		
	Keypads 1-8 = 2		
	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		
	Keypads 1-8 = None.		
	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		
	Keypads 1-8 = None		
	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		
	Keypads 1-8 = 1 & 2 (see also next page)		
	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		
	Keypads 1-8 = 1-8 ON		
	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 FIRE ALARM BEEPS TO KEYPADS		
	Keypads 1-8 = 1-8 ON		
	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		
	Keypads 1-8 = 1-8 ON		
	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		
	Keypads 1-8: None (see also previous page)		
	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. Keypads1-8 = 20 (2 Seconds)	20	
P98E 1-8E	PROXIMITY READER LED TO OUTPUT MAPPING Keypads 1-8 = None.		
	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		

KEYSWITCHES

P111E 1-2E	KEY-SWITCH AREA ASSIGNMENT K/S 1 & 2 are assigned to Areas A or B K/S # 1 = None K/S # 2 = None		
P112E 1-2E	KEY-SWITCH ACCESS & OPERATIONAL OPTIONS K/S 1 & 2 Access & Operational Options 1 = K/S # 1 and 2 = K/S # 2 K/S#1=1,3,7,8 K/S#2= 1,3,7,8		
	1 K/S can Arm Area	<input checked="" type="checkbox"/>	
	2 K/S can arm Stay Mode	<input type="checkbox"/>	
	3 K/S can Disarm Area	<input checked="" type="checkbox"/>	
	4 K/S can disarm Stay Mode	<input type="checkbox"/>	
	5 K/S has Security Guard Options	<input type="checkbox"/>	
	6 K/S will Arm Latchkey Mode	<input type="checkbox"/>	
	7 Key-switch is N/O (If turned off the Key-switch is N/C)	<input checked="" type="checkbox"/>	
	8 Key-switch is Momentary (If turned off the K/S is Latched)	<input checked="" type="checkbox"/>	

ZONES

P121E 1-16E Runner-8 1-8E	PROGRAMMING ZONES TO AREAS Assigning Zones to Areas A or B Default Zones 1-16=1		
	1	Assigned to Area A	✓
	2	Assigned to Area B	
P122E 1-16E Runner-8 1-8E	Programming Zone Options A Default Zone 1-8= 1,6,7 Default Zone 9-16 = 6,7		
	1	Zone is Active (Runner-8=only Zones 1-4 / Runner-16 =only Zones 1-8)	✓
	2	Zone is N/O (Off = N/C)	
	3	Not an Exit Delay Zone (from Ver:9.06 & above)	
	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 Runner-8 1-8E	PROGRAMMING ZONE OPTIONS B Default Zone 1-16= none		
	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	Spare	
	7	Zone is a Chime Zone	
	8	Zone is a Permanent Chime Zone	
P124E 1-16E Runner-8 1-8E	PROGRAMMING ZONE OPTIONS C Defaults for zones 1-16 = 1,2		
	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	Pulse Output on Kiss-off Following a Zone Alarm	
	8	Exit Terminator Zone	

P125E 1-8E Runner-8 1-4E	PROGRAMMING ZONE EOL (END-OF-LINE) OPTIONS Default Zones1-8=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 Runner-8 1-4E	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 Default Zones1-8=9		9	
P127E 1-16E Runner-8 1-8E	PROGRAMMING THE RADIO ZONE TYPE FROM THE LIST Enter a value 1-35 Default Zones1-16=3			
	0	Generic		
	1	Crow Merlin PIR (supervised signal ignored - 433MHz AM)		
	2	Crow Merlin PIR (supervised signal active - 433MHz AM)		
	3	Freewave w/Checksum (supervision Active -433 or 916MHz FM)	✓	
	4	Freewave w/Checksum (supervision NonActive-433~916MHz FM)		
	5	Crow AE series battery Low (304MHz AM)		
	6	Crow AE series Radio Reed Switch (304MHz AM)		
	11	Ness Radio devices Battery Low (304MHz AM)		
	12	Ness Radio Reed Switch (304MHz AM)		
	21	Electronics Line Radio PIR - 433MHz AM		
	31	Visonic K900 Radio PIR		
	32	Visonic Power code (supervised signal ignored - 433MHz AM)		
	33	Visonic Power code (supervised signal active - 433MHz AM)		
	34	Siemens (Supervised Signal Ignored)		
	35	Siemens (Supervised Signal Active)		

P128E 1-16E Runner-8 1-8E	ARMED ZONE ALARMS TO OUTPUTS		
	Default Zones1-16=1,2,3		
	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 Runner-8 1-8E	STAY ARMED ZONE ALARMS TO OUTPUTS		
	Default Zones1-16=1,2,3		
	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 Runner-8 1-8E	24 HOUR ZONE ALARMS TO OUTPUTS		
	Default Zones1-16=1,2,3		
	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 (Remove digit-1)	
	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 Runner-8 1-8E	CHIME ZONE ALARMS TO OUTPUTS		
	Default Zones1-16=None.		
	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 Runner-8 1-8E	ZONE TAMPER ALARMS TO OUTPUTS		
	Default Zones1-16=1,2,3		
	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 Runner-8 1-8E	ARMED ZONE ALARM BEEPS TO KEYPADS		
	Default Zones1-16=1,2		
	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 Runner-8 1-8E	STAY MODE ZONE ALARM BEEPS TO KEYPADS		
	Default Zones1-16=1,2		
	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 Runner-8 1-8E	24 HOUR ZONE ALARM BEEPS TO KEYPADS		
	Default Zones1-16=1,2		
	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 Runner-8 1-8E	CHIME ZONE ALARM BEEPS TO KEYPADS Default Zones1-16=1,2		
	1	Chime Zone Alarm Beeps Keypad #1	✓
	2	Chime Zone Alarm Beeps Keypad #2	✓
	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 Runner-8 1-8E	ZONE TAMPER ALARM BEEPS TO KEYPADS Default Zones1-16=1,2		
	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 Runner-8 1-8E	RADIO SUPERVISE ALARM BEEPS TO KEYPADS Default Zones1-16=None		
	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 Runner-8 1-8E	ZONE SENSOR-WATCH ALARM BEEPS TO KEYPADS Default Zones1-16=None		
	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 Runner-8 1-8E	ARMED ZONE ENTRY DELAY BEEPS TO KEYPADS Default Zones1-16=1,2		
	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 Runner-8 1-8E	STAY MODE ENTRY DELAY BEEPS TO KEYPADS Default Zones1-16=1		
	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 Runner-8 1-8E	ARMED ZONE ENTRY DELAY TIMES Enter a value 0-9999 seconds. Default for zone 1 : 20 sec Default for zones 2-16 : 0 sec		←
P145E 1-16E Runner-8 1-8E	STAY MODE ENTRY DELAY TIMES Enter a value 0-9999 seconds. Default for zone 1-2 : 20 sec Default for zones 3-16 : 0 sec		←
P146E 1-16E Runner-8 1-8E	ZONE RE-TRIGGER COUNT (ZONE LOCKOUT COUNTER) Enter a value of 0-15 Triggers. Default = 0 Triggers (=Unlimited Zone Triggers)		

P147E 1-16E Runner-8 1-8E	ZONE ALARM 4+2 REPORTING CODE Enter a two digit value 00-FF		
P148E 1-16E Runner-8 1-8E	ZONE ALARM RESTORE 4+2 CODE Enter a two digit value 00-FF		
P149E 1-16E Runner-8 1-8E	ZONE NEAR ALARM 4+2 REPORTING CODE Enter a two digit value 00-FF		
P150E 1-16E Runner-8 1-8E	ZONE NEAR ALARM RESTORE 4+2 CODE Enter a two digit value 00-FF		
P151E 1-16E Runner-8 1-8E	ZONE NEAR ALARM RESTORE 4+2 CODE Enter a two digit value 00-FF		
P152E 1-16E Runner-8 1-8E	ZONE INTRUSION VERIFIED ALARM RESTORE 4+2 CODE Enter a two digit value 00-FF		
P155E 1-16E Runner-8 1-8E	ZONE BYPASS ALARM 4+2 REPORTING CODE Enter a two digit value 00-FF		
P156E 1-16E Runner-8 1-8E	ZONE BYPASS RESTORE 4+2 CODE Enter a two digit value 00-FF		
P157E 1-16E Runner-8 1-8E	ZONE ALARM CONTACT ID REPORTING CODE (Default = 130)		
P158E 1-16E Runner-8 1-8E	ZONE NEAR ALARM CONTACT ID REPORTING CODE (Default = 138)		
P159E 1-16E Runner-8 1-8E	ZONE INTRUSION VERIFIED ALARM CONTACT ID REPORTING CODE (Default = 139)		
P160E 1-16E Runner-8 1-8E	ZONE ALARM VOICE MESSAGE NUMBER Enter a value 0-99 (Default = 1)		

P161E 1-16E Runner-8 1-8E	AWAY ZONE ENTRY DELAY TO OUTPUTS Default Zones1-16=None		
	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 #4 1 (Remove digit-1)	
	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 Runner-8 1-8E	STAY MODE ENTRY DELAY TO OUTPUTS Default Zones1-16=None		
	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 Runner-8 1-8E	SENSOR-WATCH TIMER Enter a value 0-9999 Minutes Default Zones 1-16= 7200 minutes [120 Hours]	7200	
P164E 1-16E Runner-8 1-8E	ENROLLING (LEARN) RADIO ZONE CODES		
P165E 1-16E Runner-8 1-8E	DELETE A SPECIFIC RADIO ZONE CODE		
P166E 1-16E Runner-8 1-8E	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 OE keys in sequence.		

P167E 1-16E	ZONE NEAR ALARM to OUTPUT		
	Default Zones1-16=None		
Runner-8 1-8E	1	Zone near alarm to output 1	
	2	Zone near alarm to Output 2	
	3	Zone near alarm to Output 3	
	4	Zone near alarm to Output 4	
	5	Zone near alarm to Output 5	
	6	Zone near alarm to Output 6	
	7	Zone near alarm to Output 7	
	8	Zone near alarm to Output 8	
P168E 1-16E	ZONE CONFIRMED ALARM to OUTPUT		
	Default Zones1-16=None		
Runner-8 1-8E	1	Zone confirmed alarm to output 1	
	2	Zone confirmed alarm to Output 2	
	3	Zone confirmed alarm to Output 3	
	4	Zone confirmed alarm to Output 4	
	5	Zone confirmed alarm to Output 5	
	6	Zone confirmed alarm to Output 6	
	7	Zone confirmed alarm to Output 7	
	8	Zone confirmed alarm to Output 8	

TIME ZONES

P170E 1-8E	PROGRAMMING HOLIDAYS Holidays 1-8 Days enter the values as DDMMYY		
P171E 1-8E	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 Zones 1-8 = None		
	1	Ignore Holidays	
	2	Spare	

DIALLER

P175E 1E	DIALLER PROGRAMMING OPTIONS 1		
	Default = ,2,6,7		
	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	<div style="border: 1px solid black; padding: 2px; display: inline-block;">(Must be ON for Aust.)</div> Send long DTMF tones during dialling ->	✓
7	Auto Detect Modem Mode	✓	
8	Force V21 Mode		
P175E 2E	DIALLER PROGRAMMING OPTIONS 2		
	Default =6		
	1	Step number on each call	
	2	Upload/Download use callback	
	3	Upload/Download only if disarmed	
	4	Test calls only if armed	
	5	Test Time Period is in days	
	6	Hold line open following Domestic/Voice report for DTMF control	✓
	7	First to Open Last to Close Reporting	
8	Alarm Enables Answer (2 way Voice)		
P175E 3E	AUTO-ANSWER RING COUNT Enter a value 0-99 Default =17		17
P175E 4E	TIME TO THE FIRST DIALLER TEST CALL Enter a value 0-2359 (Default = 04:30)		0430
P175E 5E	TEST CALL TIME PERIOD Enter a value 0-255 hours 0 = No test Default = 168		168
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 = None			
	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 = None			
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 = 100		100	
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	Keypad can also Force a 'Test Call' – Press the < Control > & < 0 > Buttons Together and the Dialler will report a 'Test Call'.
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 Telephone No 1,2 = 1 Telephone No 3-8 = 0		
	1 Contact ID (Only for Phone 1 & 2)	✓*	
	2 Domestic Dial		
	3 Pager		
	4 Speech Dialler (requires the 90sec voice module)		
	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)		
	10 SIA		
	11 SIA Slow		
P183E 1-8E	TELEPHONE NUMBER REPORTING OPTIONS Telephone No 1-2 = 1,2,4 Telephone No 3-8 = 1,2		
	1 Stop Dialling if Kissed off	✓	
	2 Monitor Call Progress	✓	
	3 Blind Dial		
	4 Use Group Numbers for Contact ID Reporting	✓*	
	5 Stay On-line after Alarm report for two way voice		
	6 Auto Kiss-off for Voice/Domestic Reporting		
	7 Use the Dialling Pre-fix		
	8 Is to be used as the "Call-back" Number (Only For Telephone No 8)		
P184E 1-8E	MAXIMUM DIAL ATTEMPTS PER TELEPHONE NUMBER Enter a value 0-99 Telephone 1-8 = 3.	3	
P186E 1-8E	DIALLER REPORTING OPTIONS A Telephone No 1-8 = 1-8		
	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		Telephone No 1-8 = 1-8.	
	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		Telephone No 1-2 = 1,2,3,4,5,7,8	
	Telephone No 3-8 = 5,7,8			
	1	Report Arm/Disarm	✓*	
	2	Report Stay Mode Arm/Disarm	✓*	
	3	Report Disarm only after an Activation	✓*	
	4	Report Stay Mode Disarm only after an Activation	✓*	
	5	Report Stay Mode Zone Alarms	✓	
	6	Report Access to Program Mode		
7	Report 24 Hour Alarms if Domestic/Voice mode set	✓		
8	Report Zone Restores	✓		
P189E 1-8E	DIALLER REPORTING OPTIONS D			
	Telephone No 1-2 = 3,4,5			
	Telephone No 3-8 = 4,5			
	1	Report Latchkey Disarm		
	2	Report Delinquent		
	3	Report Tests Telephone No 1&2 -->	✓*	
	4	Report Fuse Failure	✓	
	5	Report Output 1 or 2 Fail	✓	
6	Report RTC (Real Time Clock) Time changed			
7	Report Keypad Buss Trouble			
8	Report RF Interference (Jamming) Detected			
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)= None		
	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	
P196E 1-16E Runner-8 1-8E	ZONE ALARM SIA REPORTING CODE Value from 1-14		
P197E 1E	PANIC alarm SIA reporting code Value from 1-14		
P197E 2E	FIRE alarm SIA reporting code Value from 1-14		
P197E 3E	MEDICAL alarm SIA reporting code Value from 1-14		

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 (DTU Must be set to 'write' enable)
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
P200E 13E	INSTALLER mode entry (if Option-2 in 25E 10E (Installer Direct Access) is Off, then to get into Installers Mode, you Must first enter Client (User Prog) mode and go to P200E 13E and enter the Installers Code.
P200E 14E	RSSI – In this mode, the control panel keypad will display the RSSI (Signal) Strength Level of wireless detectors and remotes. Must have the 9F (916MHz) Freewave Receiver Ver:3.8+ and LCD Keypad Ver:2.10+

Connection Wiring Diagrams:

RUNNER-16

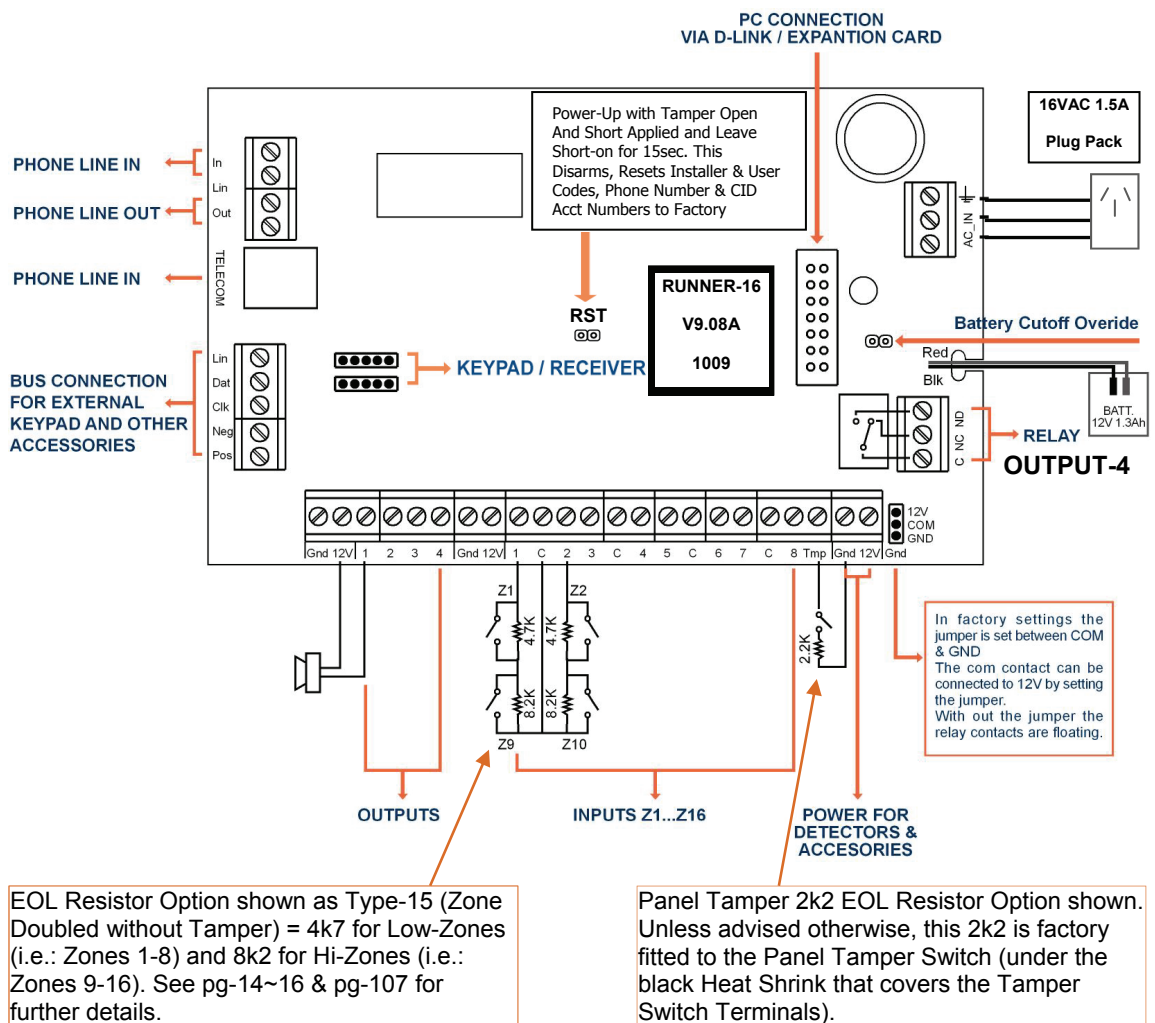


Standard MINI-housing

Runner-16

The Runner-16 board may be supplied in three different enclosures:

- ❑ Standard MINI-housing (Front Screws for cover & space for 12V 7AH Bat).
- ❑ PW-housing (large with bottom screws for cover & space for 12V 7AH Bat). This enclosure can accommodate the Runner GPRS (P/N: CRRUN001) Module.
- ❑ Compact-housing (has built-in Large LCD Keypad + Siren & space for 12V 1.3AH Bat). Due to its smaller size, this enclosure is more suited for Wireless systems.



Runner-16 In Mini Box Specification :

Operating Voltage (By Plug Pack - Transformer): 16V AC ,50Hz 1.5Amps (=25VA).

Back Up Battery: Sealed Lead Acid type 12V /1.3A up to 12V /7Ah

Battery Dynamic Test : Every 6 seconds.

Current Consumption:

Standby:

Control Panel = 40mA

Keypad = 60-130mA Depending on Button and Display backlight intensity.

Maximum Current Drain allowed from the Control Panel:

Standby: 400mA (0.4A)

Alarm: 800mA (0.8A)

Inputs:

- 16 wired Zones (Provided by Full Programmable Zone Inputs 1-8 Zone Doubled).
- Programmable Wired Tamper Input. Also used for Key-Switch Operation (when Programmed).

Outputs:

Output#1&2: Open Collector Type , 0.75A* @12V DC. By Default, O/P-1 is for 12V Siren, O/P-2 is for Strobe.

Output#3&4: Open Collector Type , 0.5A* @12V DC. By Default, O/P-3 is for 12V Internal Piezo Siren.

Output#4: Relay Change Over Contacts Capability: 2A* @12V DC. By Default, O/P-4 will provide a Single Pulse for Garage Door Control when activated by a Wireless (Radio) User. **If Output-4 (or any Output) will be used to operate an Electric Lock or any device with similar power requirements, an External Power Supply MUST be used. Any such device that damages the Control Panel may Void Warranty.**

*** NOTE-1: The above stated ratings are the Load Carrying Capacity of the Outputs. The Total Power Consumption of the System Must NEVER Exceed the 800mA System Limit when the System is in Alarm.**

*** NOTE-2: Outputs-1 & 2 are capable of driving Horn Speaker type sirens. However, Horn Speakers draw much greater current (typically (0.5A) 500mA Each) from the system. This is approx 60% of the systems Current Capacity. Please be mindful of this when calculating Total Power Consumption from the system.**

Protections:

12V Out : Each output power protected by Auto-Resettable Fuse 0.75A.

Battery Out: Protected by Auto-Resettable Fuse 2.5A.

POS (Keypad Buss +12Volt Supply): Protected by Auto-Resettable Fuse 0.75A.

Physical:

Size (cm): Standard Mini-housing = 29.5 (W) x 25 (H) x 8 (D)

Weight (kg) : Standard Mini-housing = 1.2

Operating Temperature*: -10 to 50° C. **(Please Read the Warning note below)**

Storage Temperature: -20 to 60°C.

Humidity: 85% relative humidity @ 30° C

(* WARNING: Exposing the Control Panel to High (above 50° C) Temperatures (such as when installed in the roof) may Damage the Control Panel which may cause Degraded Performance. Such Damage is considered Abuse and/or Misuse that may void Warranty).

Connection Diagram: RUNNER-8

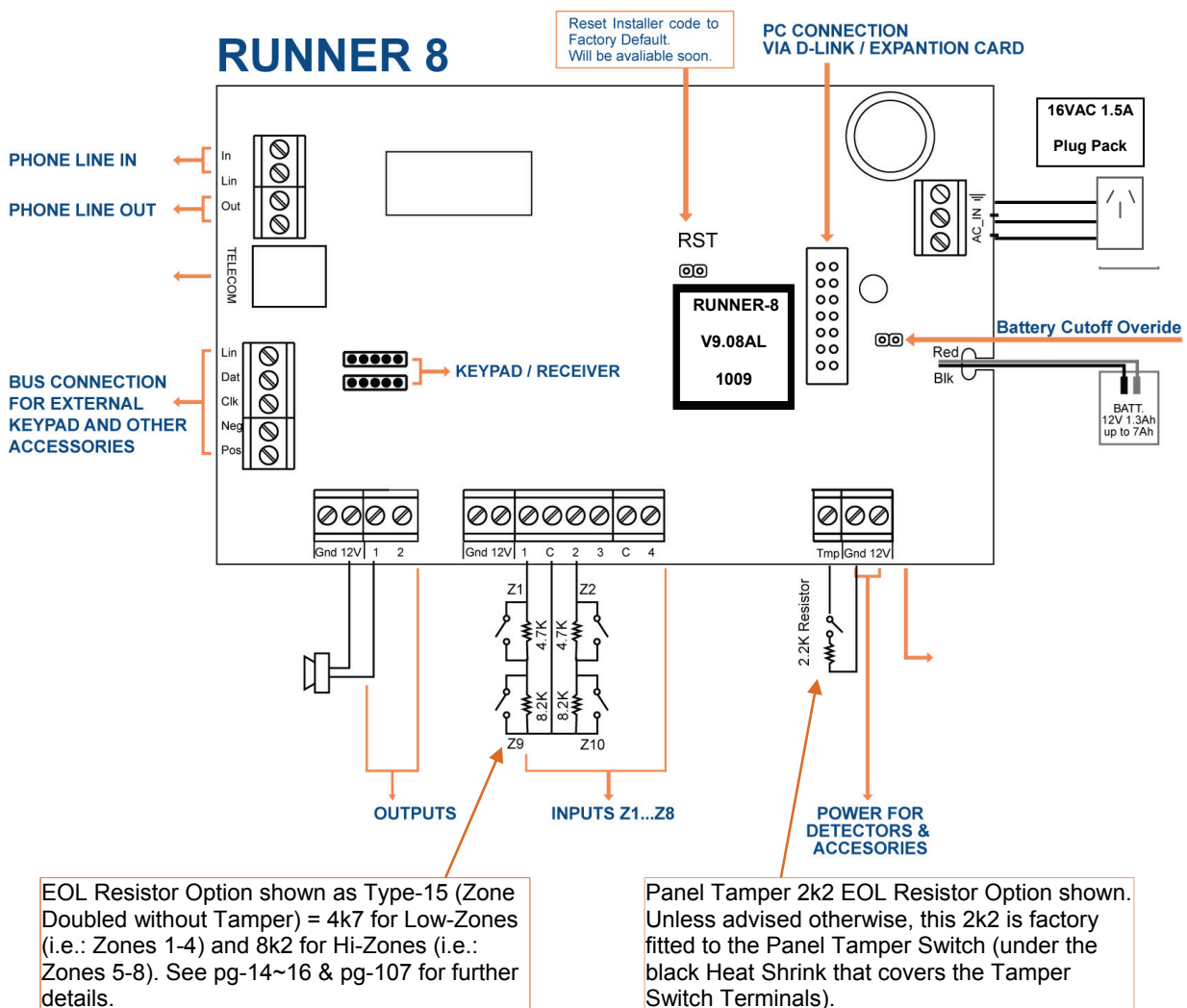


Standard MINI-housing

Runner – 8

The Runner-8 board is supplied in the Standard MINI Housing:

- Standard MINI-housing (with Front Screws for cover & space for 12V 7AH Bat).



Battery Spec.: Sealed Lead-Acid Rechargeable Battery 12V/1.3Ah up to 12V /7Ah in the Mini and PW-housings.

Battery Cutoff Level: (When AC mains fails) : $10 \pm 0.3V$

(* **WARNING:** Exposing the Control Panel to High Temperatures (above $50^{\circ}C$ such as when installed in the roof) may Damage the Control Panel and cause Erratic Performance. Such Damage is considered Abuse and/or Misuse that may void Warranty).

Runner-8 In Mini Box Specification :

Operating Voltage (By Plug Pack - Transformer): 16V AC ,50Hz 1.5Amps (=25VA).

Back Up Battery: Sealed Lead Acid type 12V /1.3A up to 12V /7Ah

Battery Dynamic Test : Every 6 seconds.

Current Consumption:

Standby:

Control Panel = 40mA

Keypad = 60-130mA Depending on Button and Display backlight intensity.

Maximum Current Drain allowed from the Control Panel:

Standby: 400mA (0.4A)

Alarm: 800mA (0.8A)

Inputs:

- 8 wired Zones (Provided by Full Programmable Zone Inputs 1-4 Zone Doubled).
- Programmable Wired Tamper Input. Also used for Key-Switch Operation (when Programmed).

Outputs:

Output#1&2: Open Collector Type , 0.75A* @12V DC. By Default, O/P-1 is for 12V Siren, O/P-2 is for Strobe.

*** NOTE-1: The above stated ratings are the Load Carrying Capacity of the Outputs. The Total Power Consumption of the System Must NEVER Exceed the 800mA System Limit when the System is in Alarm.**

*** NOTE-2: Outputs-1 Only is capable of driving a Horn Speaker type siren. However, Horn Speakers draw much greater current (typically (0.5A) 500mA Each) from the system. This is approx 60% of the systems Current Capacity. Please be mindful of this when calculating Total Power Consumption from the system.**

Protections:

12V Out : Each output power protected by Auto-Resettable Fuse 0.75A.

Battery Out: Protected by Auto-Resettable Fuse 2.5A.

POS (Keypad Buss +12Volt Supply): Protected by Auto-Resettable Fuse 0.75A.

Physical:

Size (cm): Standard Mini-housing = 29.5 (W) x 25 (H) x 8 (D)

Weight (kg) : Standard Mini-housing = 1.2

Operating Temperature*: -10 to 50° C. **(Please Read the Warning note below)**

Storage Temperature: -20 to 60°C.

Humidity: 85% relative humidity @ 30° C

(* WARNING: Exposing the Control Panel to High (above 50° C) Temperatures (such as when installed in the roof) may Damage the Control Panel which may cause Degraded Performance. Such Damage is considered Abuse and/or Misuse that may void Warranty).

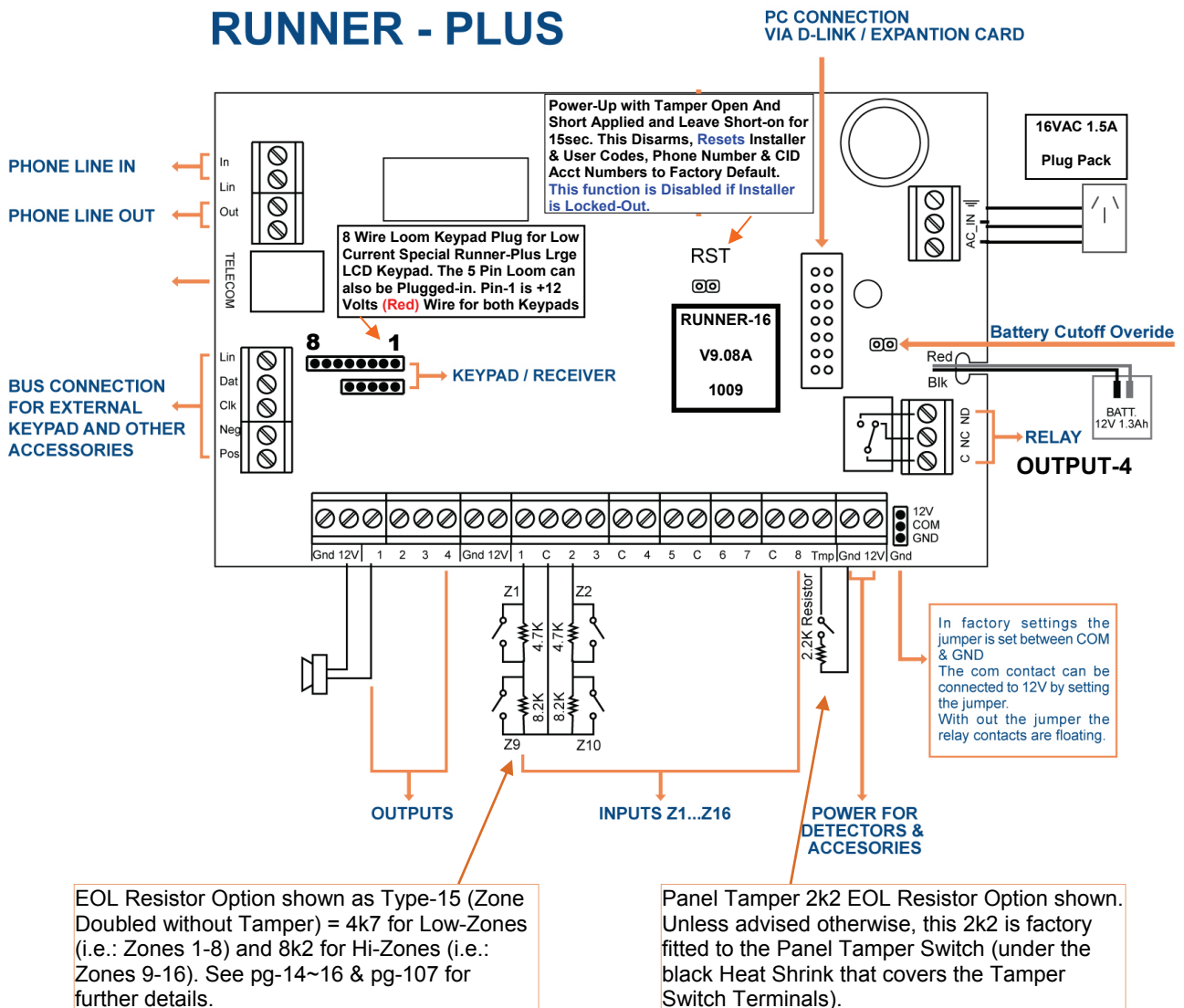
Connection Diagram: RUNNER-PLUS



Compact Housing

- Compact-housing (has built-in Large LCD Keypad + Siren & space for 12V 1.3AH Bat). Due to its smaller size, this enclosure is more suited for Wireless systems.

RUNNER - PLUS



Battery Spec.: Sealed Lead-Acid Rechargeable Battery 12V/1.3Ah in the Compact housing but the Control Panel can Charge up to 12V /7Ah if the Mini and PW-housings are used.

Battery Cutoff Level: (When AC mains fails) : 10 ± 0.3V

(* **WARNING:** Exposing the Control Panel to High Temperatures (above 50° C such as when installed in the roof) may Damage the Control Panel and cause Erratic Performance. Such Damage is considered Abuse and/or Misuse that may void Warranty).

Runner - Plus Specification :

Operating Voltage (By Plug Pack - Transformer): 16V AC ,50Hz 1.5Amps (=25VA).

Back Up Battery: Sealed Lead Acid type (Compact housing) 12V /1.3A (C.P. can Charge up to 12V /7Ah)

Battery Dynamic Test : Every 6 seconds.

Current Consumption:

Standby: Control Panel = 40mA

Keypad =60-130mA - Depending on Button and Display backlight intensity.

Voice Board FDX=50-150mA

Alarm : 260mA.

Maximum Current Drain allowed from the Control Panel:

Standby: 300mA

Alarm: 800mA.

Inputs:

- 16 wired Zones (Provided by Full Programmable Zone Inputs 1-8 Zone Doubled).
- Programmable Wired Tamper Input. Also used for Key-Switch Operation (when Programmed).

Outputs:

Output#1: Open Collector Type , 0.75A* @12V DC. Used by the Built-In Piezo 12V Siren inside Compact unit.

Output#2: Open Collector Type , 0.75A* @12V DC. By Default, O/P-2 is for Strobe.

Output#3&4: Open Collector Type , 0.5A* @12V DC. By Default, O/P-3 is for 12V Internal Piezo Siren.

Output#4: Relay Change Over Contacts Capability: 2A* @12V DC. By Default, O/P-4 will provide a Single Pulse for Garage Door Control when activated by a Wireless (Radio) User. **If Output-4 (or any Output) will be used to operate an Electric Lock or any device with similar power requirements, an External Power Supply MUST be used. Any such device that damages the Control Panel may Void Warranty.**

*** NOTE-1: The above stated ratings are the Load Carrying Capacity of the Outputs. The Total Power Consumption of the System Must NEVER Exceed the 800mA System Limit when the System is in Alarm.**

*** NOTE-2: Outputs-1 & 2 are capable of driving Horn Speaker type sirens. However, Horn Speakers draw much greater current (typically (0.5A) 500mA Each) from the system. This is approx 60% of the systems Current Capacity. Please be mindful of this when calculating Total Power Consumption from the system.**

Protections:

12V Out : Each output power protected by Auto-Resettable Fuse 0.75A.

Battery Out: Protected by Auto-Resettable Fuse 2.5A.

POS (Keypad Buss +12Volt Supply): Protected by Auto-Resettable Fuse 0.75A.

Physical:

Size (cm): Compact-housing = 27 (W) x 19 (H) x 7.5 (D)

Weight (kg): Compact-housing = 1.7 (including the 12V 1.3AH Battery)

Operating Temperature* : 0-50° C. **(Please Read the WARNING note below)**

Storage Temperature: -10 - 55°C.

Humidity: 85% relative humidity @ 30° C

(* WARNING: Exposing the Control Panel to High (above 50° C) Temperatures (such as when installed in the roof) may Damage the Control Panel which may cause Degraded Performance. Such Damage is considered Abuse and/or Misuse that may void Warranty).

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															
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16															

		User Information						Wireless									
User	P1E	P2E	P3E	P4E	P5E	P7E	P8E	P11E	P15E	P9E	P10E	P12E	P12E	P12E	P14E		
#	Name	Code	Type	Area	Access	Privileges	Type	Privileges	Beeps	Panic2OP	TimeZ	Keypad	Output	ON	OFF		
17																	
18																	
19																	
20																	
21																	
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42																	

User Information										Wireless						
User	P1E	P2E	P3E	P4E	P5E	P7E	P8E	P11E	P15E	P9E	P10E	P12E	P12E	P12E	P14E	
#	Name	Code	Type	Area	Access	Privileges	Type	Privileges	Beeps	Panic2OP	TimeZ	Keypad	Output	ON	OFF	
43																
44																
45																
46																
47																
48																
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67																
68																

		User Information						Wireless									
User	P1E	P2E	P3E	P4E	P5E	P7E	P8E	P11E	P15E	P9E	P10E	P12E	P12E	P12E	P14E		
#	Name	Code	Type	Area	Access	Privileges	Type	Privileges	Beeps	Panic2OP	TimeZ	Keypad	Output	ON	OFF		
69																	
70																	
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94																	

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

Zone Configuration

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

Note: For Runner 8 only zones 1-8 are available.

Phone Numbers

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

CROW 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 for control panel and 12 months for modules and accessories that connect to control panel. The 24 month and 12 month periods start from the last day of the week and year whose numbers are printed on the printed circuit board or a label 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 from 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 to and from Crow 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 its products, regardless of cause or origin, Crow's maximum liability shall not in any case exceed the purchase price of THE PRODUCT, BEING AN INDIVIDUAL ITEM, that is said to be the cause of such loss or damage, WHICH SHALL BE THE COMPLETE AND EXCLUSIVE REMEDY AGAINST CROW.



How to Contact Us

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Tech Support:

Dear Crow Products Installer,

Please contact your Crow Products Supplier for Technical Assistance. In the rare occasion that your supplier is unable to assist you, they will contact Crow for Technical assistance specific to your concerns and will then be able to assist you.

P/N 7112561 Rev. A G.T.