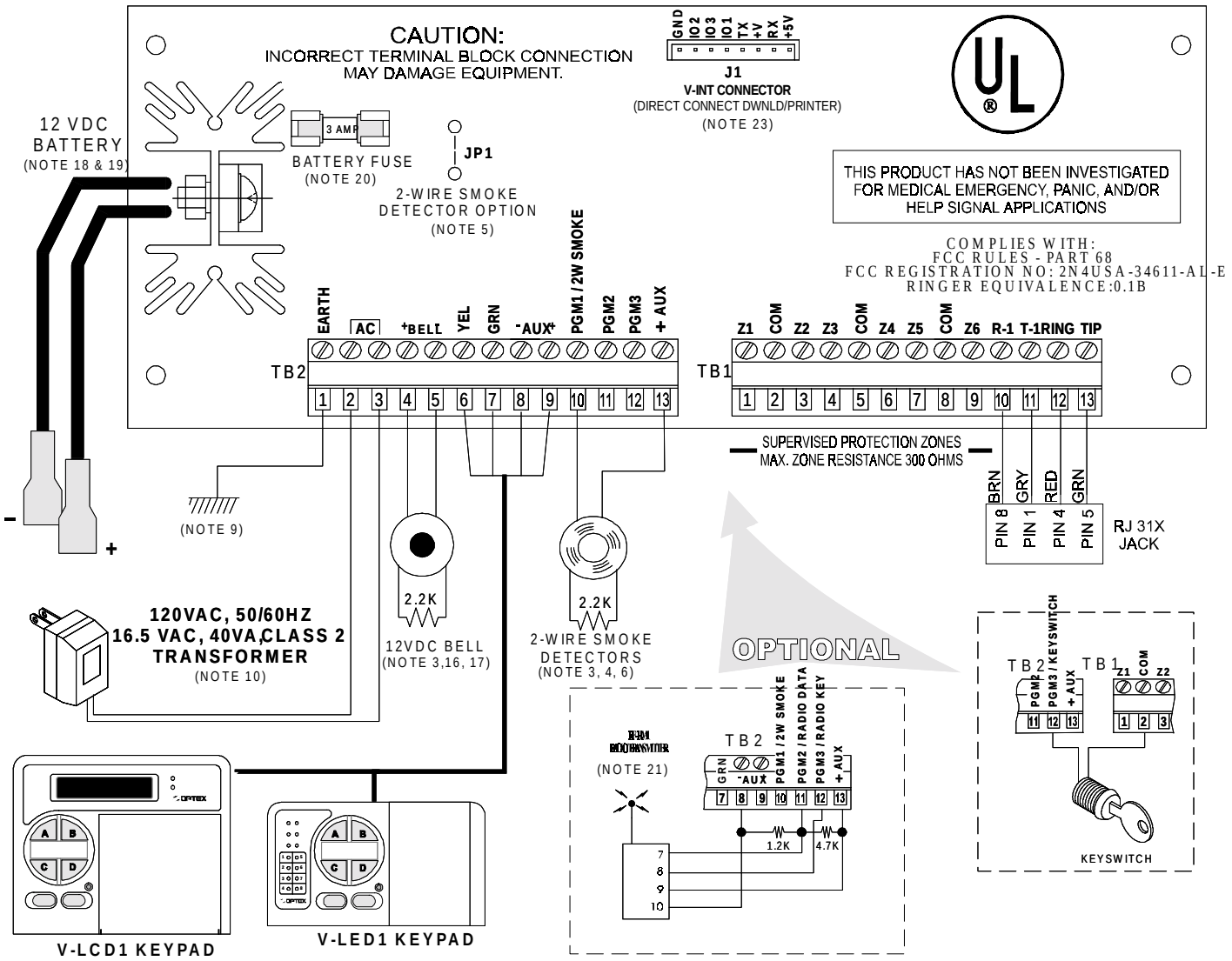
INSTALLATION MANUAL & PROGRAM RECORD SHEET

TABLE OF CONTENTS

DESCRIPTION	PAGE
WIRING MANUAL	2-6
MENU CHART	7
INSTALLER FUNCTIONS	8
MENU 1 SYSTEM TIMES	9
MENU 2 ZONE CONFIGURATION	10-14
MENU 3 SYSTEM OPTIONS	15-20
MENU 4 PINS	21
MENU 5 NOT USED	
MENU 6 RECEIVERS	21-24
MENU 7 REPORT CODES	25-28
MENU 8 DOWNLOAD (RPU)	29
GLOSSARY	30-31
PROGRAMMING RECORD SHEETS	

DIGITAL ALARM COMMUNICATION TRANSMITTER (DACT)

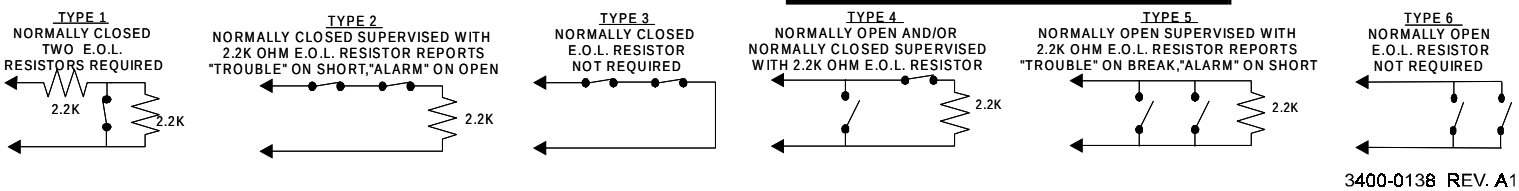
MODEL V-CP1 (VISION)



NOTES:

1. **MAXIMUM COMBINED AUX POWER AVAILABLE ON THE CONTROL PANEL INCLUDING TERMINALS TB2-4, TB2-9 AND TB2-13 IS 1.2 AMPS AT 12VDC. ALL CIRCUITS ARE POWER LIMITED.**
2. USE 2.2K OHM 1/2 WATT RESISTORS FOR BURGLAR ZONES THAT REQUIRE END OF LINE SUPERVISION (ZONE LOOP TYPES 1, 2, 4, AND 5).
3. BELL, 2-WIRE SMOKE ZONES, AND FIRE ZONES REQUIRE 2.2K OHM 1/2 WATT FIRE END OF LINE ASSEMBLY (OPTEX PART # 5090-0255) INSTALLED PER UL985.
4. THE OPERATING VOLTAGE RANGE FOR SMOKE DETECTOR TERMINALS IS 8.8 TO 13.5 VOLTS.
5. CUT JP1 TO SELECT 2-WIRE SMOKE DETECTOR INPUT, WHEN PGM1 IS PROGRAMMED WITH 2-W SMOKE OPTION (20).
6. 2-WIRE SMOKE DETECTOR LISTING: (MAXIMUM 10 DETECTORS ON LOOP) DO NOT MIX DIFFERENT SMOKE DETECTOR MODELS.
   DETECTION SYSTEM DC250/250TH - DETECTOR IDENTIFIER = A
   SYSTEM SENSOR 2400/2400TH - DETECTOR IDENTIFIER = A
   SYSTEM SENSOR 2300T - DETECTOR IDENTIFIER = A
   SENTROL 429C/429CT - DETECTOR IDENTIFIER = S10A
7. PGM1, PGM2 AND PGM3 ARE OPEN COLLECTOR OUTPUTS THAT GO LOW TO APPROXIMATELY 2V WHEN ACTIVATED. AT A MAXIMUM CURRENT OF 20mA.
8. TERMINALS TB2-12 AND TB1-2 MUST BE USED FOR CABINET TAMPER FOR UL LISTED INSTALLATIONS.
9. CONNECT EARTH GROUND TO TB2-1.
10. DO NOT CONNECT TO A RECEPTACLE CONTROLLED BY A SWITCH.
11. **THE UNIT SHOULD BE TESTED WEEKLY.**
12. CONTROL PANEL COMPATIBILITY I.D. No. 50157 (V-CP1).
13. FOR INSTALLATION INSTRUCTIONS, SEE INSTALLERS MANUAL, OPTEX PART NUMBER: 3440-0275 Rev B.
14. USE UL LISTED LIMITED ENERGY CABLE FOR CONNECTIONS.
15. THIS CONTROL UNIT SHOULD BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST EVERY 3 YEARS.
16. OPERATING VOLTAGE OF BELL CIRCUIT IS 9 TO 12 VOLTS, MAXIMUM CURRENT 750MA
17. USE WHEELOCK BELLS - MODELS MB-G6-12R, MB-G10-12R, MBS-G6-12-W-HF-R, & MBS-G10-12-W-HF-R OR USE AMSECO MODEL MSB-10B-PV4-12.
18. MAXIMUM BATTERY CHARGING CURRENT IS 700MA.
19. USE ONLY 12V SEALED LEAD ACID BATTERY, NOT TO EXCEED 7AH. (POWER SONIC MODEL: PS1270 YUASA MODEL: NP7-12)
20. REPLACE ONLY WITH 2AG, 3A @ 250V FUSE.
21. UL HAS NOT INVESTIGATED USE OF THE RF-RM1 MODULE WITH THIS PRODUCT
22. THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH CHAPTER 2 OF THE NATIONAL FIRE ALARM CODE, ANSI, NFPA72-1993.
23. FOR V-INT INSTALLATION REFER TO V-INT MANUAL (OPTEX PART NUMBER 3440-0277).

U.L. FILE NUMBER S6113
APPLICABLE U.L. STANDARDS:
UL 1023 - HOUSEHOLD BURGLAR-ALARM SYSTEM UNITS
UL 985 - HOUSEHOLD FIRE WARNING SYSTEM UNITS
UL 1635 - DIGITAL ALARM COMMUNICATOR SYSTEM UNITS
GRADE A & B HOUSEHOLD BURGLARY ALARM



3400-0138 REV. A1

Vision introduces a new level of simplicty and flexibility to Security Control Systems. Vision's advanced design gives Users and Installers greater utility and easier operation from their security system. Please read this manual carefully to ensure that you receive the maximum benefit from Vision's unique features.

Vision has four factory-set programming templates built-in. For a quick and easy installation, pick the programming template (Installer Functions, Option 2) that most closely resembles your installation. Then program the communicator and make whatever customizations are appropriate for your application.

Vision's Quad Key is an excellent way to customize your system to meet your customer's needs. In Menu 3, Section 2 (Quad Key Functions), you can select Zone Type, Mode, or Area Arming of the system. This programming area also allows you to activate Vision's convenient Night By-Pass feature.

Vision can be programmed by using an LCD keypad, a field programmer, or a computer, using the Remote Programming Utility (RPU) software with either a telephone connection or a direct connection on-site (an INT module is required for direct connect).

Thank you for purchasing Vision. We're committed to your Security *and* your Satisfaction.

Wiring Data - Terminal Block 2 (TB2)

Terminal Name	Description
Earth **(Eath Input)**	· You must use a minimum 18 gauge wire. · Do not connect to chassis, electrical or telephone ground.
AC **(AC Input)**	· Use 16.5VAC, 40VA Basler Electric BE116240CAA Class 2 transformer only. · Installation of incorrect transformer may undercharge battery. · Do not connect to an outlet controlled by a switch.
+Bell- **(12VDC Bell Output)**	· Connect 12VDC indicating devices to these terminals while observing polarity.
YEL **GRN** **+AUX-** **(Keypad Input)**	· A total of four keypads can be connected to the alarm system. · You may mix LCD and LED keypads in the same installation. · Terminal YEL Data (yellow wire) · Terminal GRN Clock (green wire) · Terminal -AUX Ground (black wire) · Terminal +AUX Positive voltage (red wire) · These terminals provide an output voltage of approximately 13.5VDC. · Maximum keypad wire lengths: AWG 18 - 2,000 feet AWG 20 - 2,000 feet AWG 22 - 2,000 feet

Wiring Data - Terminal Block 2 (TB2)

Terminal Name	Description
PGM 1	· Terminal PGM1/2W SMOKE maybe used for either a PGM output or for 2 Wire smoke detectors. · The PGM is an open collector output that will sink to ground on activation. · Use terminal +AUX for the positive connection of your device. · The maximum current draw for this circuit is 20mA for 12VDC devices.
2W SMOKE **(2-Wire Smoke Detector Input)**	· Connect the negative side of your 2-Wire Smoke Detector circuit to this terminal. · See JP1 Note on Page 2 and wiring instructions on page 6.
PGM 3	· Terminal PGM3 maybe used as PGM Output, Key-Switch Arming, or Tamper Circuit · The PGM is an open collector output that will sink to ground on activation. · Use terminal +AUX for the positive connection of your device. · The maximum current draw for this circuit is 50mA for 12VDC devices.
PGM 3 **(Key-Switch Arming)**	· Connect either side of your arming device to this terminal. · Connect the other side of your arming device to terminal +AUX. · This input is programmable for a latching or momentary device.
+Aux **(Auxilary Power(+))**	· Use this terminal for the positive side of 12VDC devices. · This output is continuous.

Wiring Data - Terminal Block 1 (TB1)

Terminal Name	Description
Z1 to Z6 **(Zone Inputs)**	· The common side of each zone floats above ground. · Normally open and/or normally closed, or a combination of both may be installed. · Each zone may be individually programmed for supervision. · 2.2K ohm 1/2W EOL resistors (red-red-red-gold). · Loop response times may be programmed individually for each zone. · All smoke detectors, heat detectors, water flow switches, pull station must use EOL Resistors · Zone input voltages for supervised zones (with EOL) are as follows: **Electrical State** — **Voltage Readings** Normal State — 1.7 - 3.2 VDC Open — 3.5 - 5.0 VDC Short — 0.0 - 1.5 VDC
R-1 **T-1** **RING** **TIP**	· **PREMISE RING** Connect to PIN 8 on the RJ-31X via the Brown wire · **PREMISE TIP** Connect to PIN 1 on the RJ-31X via the Grey wire · **TELCO RING** Connect to PIN 4 on the RJ-31X via the Red wire · **TELCO TIP** Connect to PIN 5 on the RJ-31X via the Green wire
JP1	· This jumper *must* be *cut* if PGM1 will be used for 2-wire smoke detectors.

Keypad Wiring & Keypad Zones

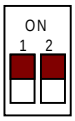
Up to four remote keypads, may be connected to the security system via the four wire keypad data bus. Any combination of LED and LCD keypads may be used on the system. It is necessary to assign addresses to each keypad. See below for instructions on addressing keypads.

Keypad 1 can support detection zones. Connect alarm inputs to terminals Z1, COM, Z2 of the keypad.

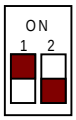
Keypad Address Switches

Each keypad has a pair of miniature dip switches that *must be* addressed for the alarm system to correctly identify each installed keypad. The alarm system will generate a *BUS FAILURE* message if more than one keypad has the same address. Use the following diagrams to correctly address each keypad.

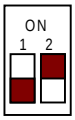
Note: *Power must be removed from the keypads to address or readdress keypad(s).*



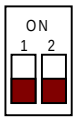
Keypad Number 1
Switch 1 On
Switch 2 On



Keypad Number 3
Switch 1 On
Switch 2 Off



Keypad Number 2
Switch 1 Off
Switch 2 On



Keypad Number 4
Switch 1 Off
Switch 2 Off

Proper operation of all keypads can be confirmed by using the Keypad Bus Test Command located in the Installer Functions (See Menu 0, Option 3).

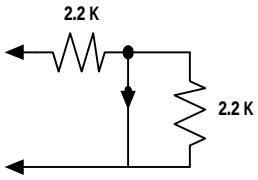
Current Draw

Product	Description	Stand-ByCurrent Draw	Alarm Current Draw
V-CP1	Vision Alarm Panel	70mA each	90mA each
V-LED1	Vision LED Keypad	20mA each	30mA each
V-LCD1	Vision LCD Keypad	37mA each	48mA each
V-INT	Interface Board	5mA each	10mA each

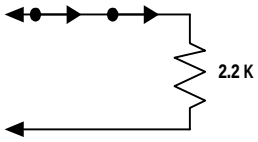
Vision CP Current Ratings for UL Charge Test

	Max. Auxiliary Current Draw Stand-By (terminals TB2-9, TB2-13)	Max. 4 Minute Alarm Current Draw (terminals TB2-9, TB2-13, TB2-4)
4 Hour with 4AH battery: :	750mA	1.2A
4 Hour with 7AH battery:	1.2A	1.2A
24 Hour with 4AH battery:	85mA	835mA
24 Hour with 7AH battery:	190mA	940mA

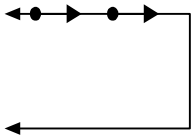
ZONE TYPES WITH EOL PLACEMENT



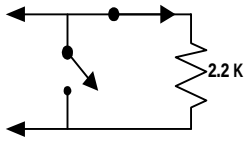
Loop Type 01
Normally Closed with double EOL.
Alarm on an break.
Trouble condition on a short before both resistors..



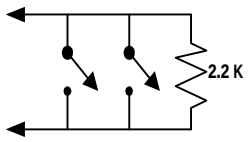
Loop Type 02
Normally Closed with EOL.
Alarm on an break.
Trouble on a short.



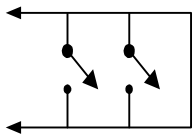
Loop Type 03
Normally Closed without EOL.
Alarm on an break.
No Trouble conditions



Loop Type 04
Normally Open / Normally Closed with EOL.
Alarm on an open/close.
No Trouble conditions.



Loop Type 05
Normally Open with EOL.
Alarm on a short.
Trouble on break.



Loop Type 06
Normally Open without EOL.
Alarm on short.
No Trouble conditions.

UL installations require use of loop types 1, 2, 4, or 5. Use 2.2K Ohm, 1/2 watt resistors on 1, 2, 4, 5 loop types, Bell Circuit, 2 Wire Smoke DetectorCircuits and any zone programmed for Fire requires a 2.2K Ohm 1/2W FIRE EOL ASSEMBLY (Optex Part No. 5090-0255) placed in parallel at the last smoke detector. Install according to UL985.. Install according toUL985.

2-WIRE SMOKE DETECTOR INPUT (PROGRAMMING OPTION FOR PGM 1)

- Cut Jumper JP1
- Connect Negative (-) lead of circuit to terminal 2W SMOKE and Positive (+) lead to terminal +AUX.
- This input requires a 2.2K Ohm 1/2W FIRE EOL ASSEMBLY (Optex Part No. 5090-0255) placed in parallel at the last smoke detector. Install according to UL985.
- Select programming option #20 in menu 36-1 (PGM 1 Type).
- The maximum number of smoke detectors that may be installed is 10. Do not mix models.
- Use the following table to troubleshoot the 2-wire smoke detector circuit.
- When reading DC voltage place meter probes to terminals 2W SMOKE and +AUX.

Condition	Voltage Reading
Trouble	0.0 Vdc to 0.66 Vdc
Normal	0.70 Vdc to 1.17 Vdc
Alarm	1.25 Vdc to 13.6 Vdc

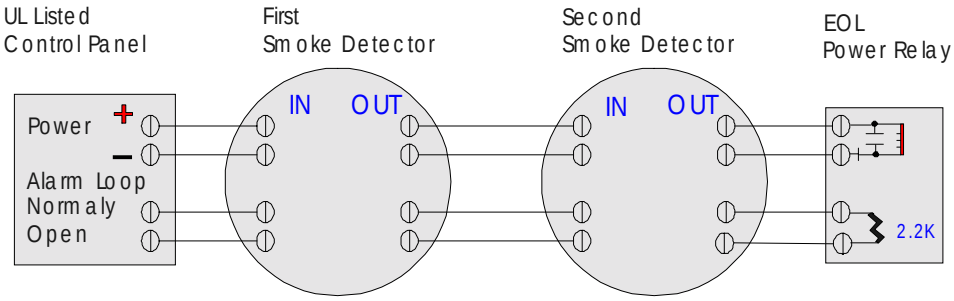
Compatible UL Listed 2-Wire Smoke Detectors (Max. 10 Detectors. Do not mix models)

Detection Systems	DC250/250TH - Detector Identifier = A
System Sensor	2400/2400TH - Detector Identifier = A
System Sensor	2300T - Detector Identifier = A
Sentrol	429C/429CT - Detector Identifier = S10A

4-Wire Smoke Detector Wiring

4-Wire smoke detectors require a supervisory relay and 2.2K Ohm FIRE EOL ASSEMBLY (Optex Part No. 5090-0255), installed as shown:

Four Wire Smoke with EOL and Power Supervision



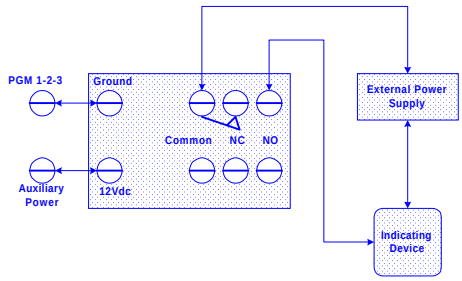
Compatible UL Listed 4-Wire Smoke Detectors (operating voltage 9.7- 13.7 volts)

Sysytem Sensor	1112, 2112, 2112T, 2112TSRB
ESL	449AT, 449CT, 741U, 741UT^
Detection Systems	DS250, DS250TH used with MB4W base

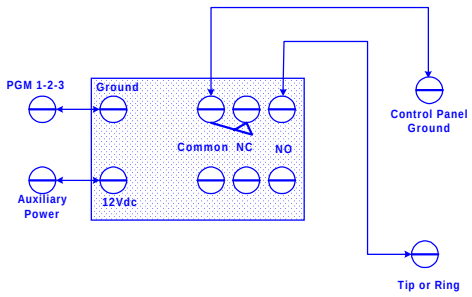
PGM Output Wiring

- PGM outputs are low current transistor outputs that are held above ground.
- Once these outputs are triggered they sink to ground and supply a 50mA output maximum.
- ***Warning: Drawing more than 50mA can damage these outputs.***

Additional Alarm Output



Ground Start Phone System



Communications

UL has evaluated the compatibility of these Vision Reporting Formats and the corresponding Receivers.

Radionics 6500 - 40PPS 3-1 W/Parity; 20PPS 4-2; 20PPS 3-1 Ext; 20PPS 3-1;10PPS 4-2;10PPS 3-1 Ext.; 10PPS 3-1

Varitec V300 - VFSK 4-2; 40PPS 3-1 W/Parity; 20PPS 4-2; 20PPS 4-1 Ext; 20PPS 4-1; 20PPS 3-1 Etx; 20PPS 3-1; 10PPS 4-2; 10PPS 4-1 Etx; 10PPS 4-1; 10PPS 3-1 Etx; 10PPS 3-1

SurGard 9000 - SIA; CONTACT ID; 20PPS 4-2; 20PPS 4-1 Ext; 20PPS 4-1; 20PPS 3-1 Etx; 20PPS 3-1; 10PPS 4-2; 10PPS 4-1 Etx; 10PPS 4-1; 10PPS 3-1 Etx; 10PPS 3-1

Vision Contact ID / SIA Transmission Codes

Report Functions	*Menu*	*SIA Report*	*Contact ID Report*
2 Wire Smoke Alarm	79-1	FA	E111
2 Wire Smoke Restore	79-3	FR	R111
2 Wire Smoke Trouble	79-2	FT	E373
Abnormal Test Code	77-6	RY	E608
AC Fail	74-1	AT	E301
AC Fail Restore	74-2	AR	R301
Auto Arm Code	77-3	CA	R403
AUX Power Restore	75-4	YQ	R300
AUX Power Trouble	75-3	YP	E300
Battery Restore	74-4	YR	R302
Battery Trouble	74-3	YT	E302
Bell Fault Restore	74-8	YH	R321
Bell Fault Trouble	74-7	YA	E321
Box Tamper	74-5	TA	E137
Box Tamper Restore	74-6	TR	R137
Bus Fail	75-1	ET	E333
Bus Fail Restore	75-2	ER	R333
Cancel Code	77-2	BC	E406
Clock Restore	75-6	JT	R625
Clock Trouble	75-5	JT	E625
Communication Failure	76-3	YS	E350
Duress Code	77-1	HA	E121
Exit Error	77-8	EE	E374
Fail Auto Arm Code	77-4	CI	E455
Force Arm	78-1	CF	R400
Full Arm	78-4	CL	R456
Keypad Emergency	72-3	QA	E120
Keypad Fire	72-2	FA	E110
Keypad Panic	72-1	PA	E120
Partial Arm	78-5	CG	E456
Recent Close	77-7	CR	E459
Remote Arm (RPU)	78-2	CL	R407
Remote Disarm (RPU)	78-3	OP	E407
Self Test Code	77-5	RP	E602
Sensor Tamper Restore	76-2	TR	R137
Sensor Tamper Trouble	76-1	TA	E137
Telephone Restore	75-8	LR	R351
Telephone Trouble	75-7	LT	E351
User Close	73-2	CL	R401
User Open	73-1	OP	E401
Zone Alarm	71-1	BA	E130
Zone Bypass	71-3	BB	E570
Zone Restore	71-4	BR	R130
Zone Trouble	71-2	BT	E370

CHART OF PROGRAMMING MENUS

Press 7 + ↑+ installer's code, then select a single digit function number fromMenu0.

MENU 0
INSTALLER FUNCTIONS

1 Default Install Program
2 Templates
3 BUS Test
4 Comm. Test
5 History Print
6 Installer's Program
7 Direct Download

After entering Installer's Program (6) , select a two digit item number from menus 1-8.

MENU 1

11 Delay Times
11-1 Pre-Alarm
11-2 Entry Delay 1
11-3 Entry Delay 2
11-4 Exit Delay 1
11-5 Exit Delay 2

12 Cutoff Times
12-1 Bell
12-2 PGM 1
12-3 PGM 2
12-4 PGM 3
13-19 not used

MENU 2

21 Zone Configuration
Select Zone Number
21-Z#-1 Zone Type
21-Z#-2 Loop Type
21-Z#-3 Loop Response
21-Z#-4 Zone Options 1
1. Entry Delay 1
2. Entry Delay 2
3. Exit Delay 1
4. Exit Delay 2
5. Ignore During Delay
6. Entry Follower
7. Final Door

21-Z#-5 Zone Options 2
1. Auto Arm
2. Key-Switch Arm
3. Night Bypass
4. Day Zone
5. Silent Day/Aud. Night
6. Silent Always

21-Z#-6 Zone Options 3
1. Telephone
2. Bypass Allowed
3. Swinger Shutdown
4. Display Armed
5. Walk Test
6. Chime
7. Bell
8. Pulse Bell

21-Z#-7 Zone Options 4
1. PGM 1
2. PGM 2
3. PGM 3

21-Z#-8 Zone Options 5
1. Group 1
2. Group 2
3. Group 3
4. Group 4

21-Z#-9 Zone Name
22-29 Not Used \ Reserved

MENU 3

31 System Features
31-1 System Options 1
1. Need PIN to Arm
2. Need PIN to Bypass
3. Force Arm
4. Force Arm-Auto Arm
5. Quick Exit
6. Default Install PIN
7. Up Arming Enabled
8. Exit Delay on Up Arm

31-2 System Options 2
1. KP Tone on Entry
2. KP Tone on Exit
3. Bell on Entry
4. Bell on Exit
5. Automatic Bell Test
6. Auto Chime on Disarm

31-3 System Option3
1. Crystal Clock
2. AC Clock 50/60Hz
3. Daylight Savings

32 Quad Key Function
32-1 Arming Method
32-2 D Key Options

33 Keypad Configuration
Select Keypad Number
33-01 Keypad 1 Options
1. Keypad Enabled
2. Keypad Audible
3. Keypad Chime

33-02 Keypad 2 Options
33-03 Keypad 3 Options
33-04 Keypad 4 Options

34 Keypad Alarms
34-1 Keypad Alarms
1. KP Silent Panic
2. KP Audible Panic
3. KP Fire
4. KP Emergency

35 PGM Input
35-1 PGM3 Type
0. Disabled (Output)
1. Momentary Keyswitch
2. Latch Key-Switch
3. Box Tamper
4. Sensor Tamper

36 PGM Output
36-1 PGM 1
36-2 PGM 2
36-3 PGM 3

37 History Store \ Print
1. Alarm \ Restore
2. Trouble \ Restore
3. Open \ Close
4. Timed Print History

38-39 Not Used \ Reserved

MENU 4

41 PINs
41-1 Installer PIN
41-2 Duress PIN
41-3 User 1 PIN

MENU 5

Not Used \ Reserved

MENU 6

61 Receiver 1
61-1 Telephone Number
61-2 Account Number
61-3 Receiver Format
61-4 Dial Attempts

62 Receiver 2
62-1 Telephone Number
62-2 Account Number
62-3 Receiver Format
62-4 Dial Attempts

63 Receiver Options
63-1 Alarm Report Options
63-2 O/C Report Options
63-3 System Report Options

64 Dial Features
64-1 Dial Features
1. TT or Rotary
2. Rotary Fallback
3. 2300Hz Tones
4. Tel. Line Monitor

64-2 Delay Before Dial
64-3 Anti Jam
64-4 AC Fail Delay

65-Self Test
65-1 Fixed \ Start Time
65-2 Test Option

66-Personal Alarm Call
66-1 Telephone Number
66-2 Tone 1 Assignment
66-3 Tone 2 Assignment
66-4 Report Tone Duration

67 Pager
67-1 Telephone Number
67-2 Message Assign.
67-3 Range / Alarm Code
67-4 Range / Trouble Code
67-5 Range / O/C Code
67-6 Message Header -Alarm
67-7 Message Header -Trouble
67-8 Message Header -O/C
67-9 Pager Delay
68–69-Not Used \ Reserved

MENU 7

71-Zone Report Codes
Select Zone Number
71-1 Zone Alarm
71-2 Zone Trouble
71-3 Zone Bypass
71-4 Zone Restore

72 Keypad Report Codes
72-1 Keypad Panic
72-2 Keypad Fire
72-3 Keypad Emergency

73 User Arming Report Codes
Select User Number
73-U#-1 User Open
73-U#-2 User Close

74 Trouble Report Codes (1)
74-1 AC Fail
74-2 AC Fail Restore
74-3 Low Battery
74-4 Battery Restore
74-5 Box Tamper
74-6 Box Tamper Restore
74-7 Bell Fault Trouble
74-8 Bell Fault Restore

75 Trouble Report Codes (2)
75-1 Bus Fail
75-2 Bus Fail Restore
75-3 AUX Power Trouble
75-4 AUX Power Restore
75-5 Clock Trouble
75-6 Clock Restore
75-7 Telephone Trouble
75-8 Telephone Restore

76 Trouble Report Codes (3)
76-1 Sensor Tamper Trbl
76-2 Sensor Tamper Rest

77 Micellaneous Report Codes (1)
77-1 Duress
77-2 Cancel
77-3 Auto-Arm
77-4 Fail to Auto Arm
77-5 Self-Test
77-6 Abnormal Test
77-7 Recent Close
77-8 Exit Error

78 Miscellaneous Report Codes (2)
78-1 Force Arm
78-2 Remote Arm (RPU)
78-3 Remote Disarm (RPU)
78-4 Full Arm
78-5 Partial Arm

79 2-Wire Smoke Report Codes
79-1 2-Wire Smoke Alarm
79-3 2-Wire Smoke Trouble
79-3 2-Wire Smoke Restore

MENU 8

81 Download (RPU)
81-1 Telephone Number
81-2 Panel Access ID
81-3 Local RPU PIN
81-4 RPU Features
1. Double Call
2. Call Back

81-5 Number of Rings
81-6 Double Call Wait Time

MENU 0 - INSTALLER FUNCTIONS

THE INSTALLER'S PIN IS REQUIRED TO ACCESS THE INSTALLER'S OPTIONS MENU. PRESS **(↑)** + 7 + *INSTALLER'S CODE TO ENTER MENU 0 .*

MENU 0 CHART
INSTALLER FUNCTIONS

1- Default Installer Program
2- Templates
3- BUS Test
4- Communications Test
5- History Print
6- Enter Installer's Program
7-Direct Download

1 DEFAULT INSTALLER PROGRAM

This operation resets the entire program (including Installer's code) of the alarm system to the factory default options. Program Installer's PIN in Menu 41-1.
(See menu 31-1-6 to disable hardware reset of Installer's PIN).
Press (↑) **+ 7 + installer PIN + 1 +** (↑)

2 PROGRAM TEMPLATES

This option allows quick loading of one of four zone templates. These templates are:

TEMPLATE OPTIONS				
ZONE NUMBER	**DEFAULT (0)**	**TEMPLATE 1** (1 DOOR SYSTEM)	**TEMPLATE 2** (2 DOOR SYSTEM)	**TEMPLATE 3** (3 DOOR SYSTEM)
1	01 (DOOR)	01 (DOOR)	01 (DOOR)	01 (DOOR)
2	02 (WINDOW)	02 (WINDOW)	01 (DOOR)	01 (DOOR)
3	02 (WINDOW)	02 (WINDOW)	02 (WINDOW)	01 (DOOR)
4	02 (WINDOW)	03 (INTERIOR)	02 (WINDOW)	02 (WINDOW)
5	03 (INTERIOR)	03 (INTERIOR)	03 (INTERIOR)	02 (WINDOW)
6	03 (INTERIOR)	00 (DISABLED)	03 (INTERIOR)	03 (INTERIOR)
7	00 (DISABLED)	00 (DISABLED)	00 (DISABLED)	00 (DISABLED)
8	00 (DISABLED)	00 (DISABLED)	00 (DISABLED)	00 (DISABLED)

Press (↑) **+ 7 + Installer PIN + 2 +** (↑) **+ select the template number** (↑). **Range: 0-3**

3 BUS TEST

This option tests the operation of attached keypad(s).
Press (↑) **+ 7 + Installer PIN + 3 +** (↑)
After initiating the Bus Test, Zone Indicators 1-4 on the LED or LCD display will report the status of the corresponding keypad: **ON STEADY** indicates the keypad is functional; **BLINKING** indicates the keypad has been programmed but the keypad has not responded to the Bus Test; **NOT LIT** indicates the panel is not programmed for the keypad.

4 COMMUNICATION TEST

This option tests communications to central station.
Press (↑) **+ 7 + installer PIN + 4 +** (↑)
Lit Zone Indicators 1-4 show results for Receiver 1. Indicators 5-8 show results for Receiver 2.

(1) or (5) No Phone Number (3) or (7) No Handshake
(2) or (6) No Dial Tone (4) or (8) No Kiss-Off

Press OFF to clear and reset display before testing. Press (4) to initiate a test using the test code.
(See menu 77-5, Miscellaneous Report Codes (1) to program test code)

5 PRINT HISTORY

Use this option to print History Reports:
1. Entire history.
2. The most recent twenty events.
3. All events in history since last print out.

Press (↑) **+ 7 + Installer PIN + 5 +** (↑) **, then select the history print option (1-3).**

6 ENTER INSTALLER'S PROGRAMMING

Press (↑) **+ 7 + installer PIN + 6 + (↑)**

7 DIRECT DOWNLOAD

Press (↑) **+ 7 + installers PIN + 7 +** (↑)

MENU 1 - SYSTEM TIMES

THESE TWO MENUS DETERMINE TIMING FUNCTIONS FOR THE SECURITY SYSTEM.

11 DELAY TIMES

THESE FIVE ITEMS DETERMINE THE ENTRY AND EXIT DELAY PERIODS REQUIRED FOR THE SECURITY SYSTEM.

11-1 Pre-Alarm Delay

Select the duration of 'Quiet Time' before the audible entry delay begins. **Note:** This value of "silent" time will be added to the total entry delay time. *If an alarm has occurred during the current armed period there will be no Pre-Alarm Delay.*

Default: 00 seconds **Range: 00-99 seconds**

* For UL Listed systems the maximum entry delay time is 45 seconds.

11-2 Entry Delay 1

Select the amount of time required to enter the premise and disarm the alarm system *Note: This delay can be applied to zones programmed as Doors, Windows, Interior and Exterior.*
(See menu 21-4-1 to apply this delay period to zones).

Default: 45 seconds **Range: 00-99 seconds**

*For UL Listed systems the maximum entry delay time is 45 seconds.

11-3 Entry Delay 2

Select the amount of time required to enter the premise and disarm the alarm system.
Note: this value of time will be added to the time programmed in Entry Delay 1 and Pre-Alarm Delay whenever an Entry Delay 2 zone is activated. *Note: This delay can be applied to zones programmed as Doors, Windows, Interior and Exterior. (See menu 21-4-2 to apply this delay period to zones).*

Default: 45 seconds **Range: 00-99 seconds**

* For UL Listed systems the maximum entry delay time is 45 seconds.

11-4 Exit Delay 1

Select the amount of time required to exit the premise after arming the alarm system. *Note: This delay can be applied to zones programmed as Doors, Windows, Interior and Exterior.*
(See menu 21-4-3 to apply this delay period to zones).

Default: 60 seconds **Range: 00-99 seconds**

* For UL Listed systems the maximum exit delay time is 60 seconds.

11-5 Exit Delay 2

Select the amount of time required to exit the premise after arming the alarm system.
Note: this value of time will ***be*** added to the time programmed in Exit Delay 1 whenever an Exit Delay 2 zone is activated.
Note: This delay can be applied to zones programmed as Doors, Windows, Interior and Exterior.
(See menu 21-4-4 to apply this delay period to zones).

Default: 60 seconds **Range: 00-99 seconds**

* For UL Listed systems the maximum exit delay time is 60 seconds.

12 CUTOFF TIMES

THESE FOUR ITEMS DETERMINE CUTOFF TIMES FOR INDICATING DEVICES ATTACHED TO THE SECURITY SYSTEM.

12-1 Bell

Select the amount of time for the bell output to remain energized. *(See menu 21-6-7, Bell Output Options)*

Default: 10 minutes **Range: 00-99 minutes**

* For UL Listed systems bell output shall be energized for 4 minutes minimum.

12-2 PGM 1

Select the amount of time for PGM 1 output to remain energized. *(See menu 36-1, PGM 1 Output Options)*

Default: 10 minutes **Range: 00-99 minutes***

12-3 PGM 2

Select the amount of time for PGM 2 output to remain energized. *(See menu 36-2, PGM 2 Output Options)*

Default: 10 minutes **Range: 00-99 minutes***

12-4 PGM 3

Select the amount of time for PGM 3 output to remain energized. *(See menu 36-3, PGM 3 Output Options)*

Default: 10 minutes **Range: 00-99 minutes***

*** Enter 00 for 5 second activation period**

MENU 1 CHART

11 Delay Times
11-1 Pre-Alarm
11-2 Entry Delay 1
11-3 Entry Delay 2
11-4 Exit Delay 1
11-5 Exit Delay 2
12 Cutoff Times
12-1 Bell Cutoff
12-2 PGM 1 Cutoff
12-3 PGM 2 Cutoff
12-4 PGM 3 Cutoff

MENU 2 - ZONE CONFIGURATION

VISION HAS BEEN PREPROGRAMMED WITH ZONES AND ZONE CHARACTERISTICS ALREADY DEFINED. IN ADDITION TO ITS DEFAULT PROGRAMMING, THREE ADDITIONAL TEMPLATES HAVE BEEN PROVIDED. PROGRAMMING CAN BE MINIMIZED BY CHOOSING THE TEMPLATE WHICH BEST SUITS YOUR APPLICATION. SEE MENU 0-2, INSTALLER FUNCTIONS/PROGRAM TEMPLATES ON PAGE 8.

MENU 2 CHART

21 Zone Configure
Select Zone Number
21-Z#-01 Zone Type
21-Z#-02 Loop Type
21-Z#-03 Loop Response
21-Z#-04 Zone Options 1
1. Entry Delay 1
2. Entry Delay 2
3. Exit Delay 1
4. Exit Delay 2
5. Ignore During Delay
6. Entry Follower
7. Final Door

21-Z#-05 Zone Options 2
1. Auto Arm
2. Key-Switch Arm
3. Night Bypass
4. Day Zone
5. Silent Day/Aud. Night
6. Silent Always

21-Z#-06 Zone Options 3
1. Telephone
2. Bypass Allowed
3. Swinger Shutdown
4. Display Armed
5. Walk Test
6. Chime
7. Bell
8. Pulse Bell

21-Z#-07 Zone Options 4
1. PGM 1
2. PGM 2
3. PGM 3

21-Z#-08 Zone Options 5
1. Arming Area 1
2. Arming Area 2
3. Arming Area 3
4. Arming Area 4

21-9 Zone Name

21 ZONE CONFIGURATION

THESE NINE ITEMS ALLOW THE CUSTOMIZATION OF EACH INDIVIDUAL ZONE.

SELECT ZONE NUMBER (SELECT THE ZONE NUMBER YOU WISH TO PROGRAM).

21-Z#-1 Zone Type

Select the zone type for this zone from the list below.

Default: Variable **Range: 01-06**

ZONE TYPE	DESCRIPTION	ZONE TYPE	DESCRIPTION
01	DOORS	04	EXTERIOR
02	WINDOWS	05	24 HOUR
03	INTERIOR	06	FIRE

Operating characteristics for each zone type are preprogrammed, but may be reprogrammed in sections 21-Z#-04, 21-Z#-05, and 21-Z#-06. See page 11 for a chart which shows the default characteristics of each zone type.

21-Z#-2 Loop Type

Select the loop type for this zone from the list below.

Default: 04 **Range: 01-06**

LOOP TYPE	DESCRIPTION	EOL REQUIRED
01	NORMALLY CLOSED	YES (2 EOL)
02	NORMALLY CLOSED	YES (1 EOL)
03	NORMALLY CLOSED	NO EOL
04	NORMALLY OPEN \ NORMALLY CLOSED	YES (1 EOL)
05	NORMALLY OPEN	YES (1 EOL)
06	NORMALLY OPEN	NO EOL

01 For use with detectors that open on alarm. Trouble report and/or annunciation on Short or Break.
02 For use with devices that open on alarm. Trouble report and/or annunciation on Short.
03 For use with devices that open on alarm. No Trouble report or annunciation.
04 For use with devices that open or close on alarm. No Trouble report or annunciation.
05 For use with devices that close on alarm. Trouble report and/or annunciation on Break.
06 For use with devices that close on alarm. No Trouble report or annunciation.

21-Z#-3 Loop Response

Select the length of time the circuit must remain in a non-secure condition in order to initiate an alarm activation or abnormal condition. For a loop response time of 10ms to 20ms, enter 00.

Default: 05 (250ms) **Range: 00-99 x 50ms**

The default Zone Option settings for each of Vision's 6 zone types are shown in the chart below. Each of the twenty-one Zone Options are explained in detail in the following pages.

21 Zone Configuration

These nine items allow the customization of each individual zone.

When a zone type is assigned to a zone, the default zone characteristics shown below are automatically be assigned to that zone. Use Menu 21-Z#-04, 21-Z#-05, and 21-Z#-06 to adjust these options and individually customize each zone's characteristics.

	Pre-Set Zone Types / Default Option settings						
	(01)	(02)	(03)	(04)	(05)	(06)	
21-Z#-04 Zone Options 01	**Door**	**Window**	**Interior**	**Exterior**	**24Hr**	**Fire**	**Range**
1. Entry Delay 1	On			On			On\Off
2. Entry Delay 2							On\Off
3. Exit Delay 1	On	On	On	On			On\Off
4. Exit Delay 2							On\Off
5. Ignore During Delay							On\Off
6. Entry Follower			On				On\Off
7. Final Door							On\Off

	Pre-Set Zone Types / Default Option settings						
	(01)	(02)	(03)	(04)	(05)	(06)	
21-Z#-0-5 Zone Options 02	**Door**	**Window**	**Interior**	**Exterior**	**24Hr**	**Fire**	**Range**
1. Auto-Arm	On	On	On				On\Off
2. Key-Switch Arm	On	On	On				On\Off
3. Night By-Pass							On\Off
4. Day Zone							On\Off
5. Silent Day/Aud Night							On\Off
6. Silent Always							On\Off

	Pre-Set Zone Types / Default Option settings						
	(01)	(02)	(03)	(04)	(05)	(06)	
21-Z#-06 Zone Options 03	**Door**	**Window**	**Interior**	**Exterior**	**24Hr**	**Fire**	**Range**
1. Telephone	On	On	On		On	On	On\Off
2. Bypass Allowed	On	On	On	On	On		On\Off
3. Swinger Shunt	On	On	On				On\Off
4. Display Armed	On	On	On	On	On	On	On\Off
5. Walk Test	On	On	On	On			On\Off
6. Chime	On			On			On\Off
7. Bell Output	On	On	On	On	On		On\Off
8. Pulse Bell							On\Off

Menu 2 Chart

21 Zone Configuration
Select Zone Number
21-Z#- 01 Zone Type
21-Z#-02 Loop Type
21-Z#-03 Loop Response
21-Z#-04 Zone Options 1
1. Entry Delay 1
2. Entry Delay 2
3. Exit Delay 1
4. Exit Delay 2
5. Ignore During Delay
6. Entry Follower
7. Final Door

21-Z#-05 Zone Options 2
1. Auto-Arm
2. Key-Switch Arm
3. Night Bypass
4. Day Zone
5. Silent Day/Aud. Night
6. Silent Always

21-Z#-06 Zone Options 3
1. Telephone
2. Bypass Allowed
3. Swinger Shutdown
4. Display Armed
5. Walk Test
6. Chime
7. Bell
8. Pulse Bell

21-Z#-07 Zone Options 4
1. PGM 1
2. PGM 2
3. PGM 3

21-Z#-08 Zone Options 5
1. Arming Area 1
2. Arming Area 2
3. Arming Area 3
4. Arming Area 4

21-9 Zone Name

MENU 2 CHART

21 Zone Configuration
Select Zone Number
21-Z#- 01 Zone Type
21-Z#-02 Loop Type
21-Z#-03 Loop Response
21-Z#-04 Zone Options 1
1. Entry Delay 1
2. Entry Delay 2
3. Exit Delay 1
4. Exit Delay 2
5. Ignore During Delay
6. Entry Follower
7. Final Door

21-Z#-05 Zone Options 2
1. Auto-Arm
2. Key-Switch Arm
3. Night Bypass
4. Day Zone
5. Silent Day/Aud. Night
6. Silent Always

21-Z#-06 Zone Options 3
1. Telephone
2. Bypass Allowed
3. Swinger Shutdown
4. Display Armed
5. Walk Test
6. Chime
7. Bell
8. Pulse Bell

21-Z#-07 Zone Options 4
1. PGM 1
2. PGM 2
3. PGM 3

21-Z#-08 Zone Options 5
1. Arming Area 1
2. Arming Area 2
3. Arming Area 3
4. Arming Area 4

21 ZONE CONFIGURATION

21-4 Zone Options 1

THESE SEVEN OPTIONS CAN BE USED TO INDIVIDUALLY CUSTOMIZE EACH ZONE.

1. Entry Delay 1
Applies Entry Delay 1 to the zone currently being programmed.
(See menu 11-2, Entry Delay 1 to adjust the duration of Entry Delay 1)
Default: determined by zone type **Range: On or Off**

2. Entry Delay 2
Adds Entry Delay 2 and Entry Delay 1 to the zone currently being programmed.
(See menu 11-3, Entry Delay 2 to adjust the duration of Entry Delay 2)
Default: determined by zone type **Range: On or Off**

3. Exit Delay 1
Applies Exit Delay 1 to the zone currently being programmed.
(See menu 11-4, Exit Delay 1 to adjust the duration of Exit Delay 1)
Default: determined by zone type **Range: On or Off**

4. Exit Delay 2
Adds Exit Delay 2 and Exit Delay 1 to the zone currently being programmed.
(See menu 11-5, Exit Delay 2 to adjust the duration of Exit Delay 2)
Default: determined by zone type **Range: On or Off**

5. Ignore During Exit Delay
This option allows the user to arm the security system if this zone is in a non-secure condition.
This zone must be secured before the exit delay expires or an alarm will occur.
Default: determined by zone type **Range: On or Off**

* For UL Listed systems Ignore During Exit Delay is not allowed.

6. Entry Follower
This option allows the zone to delay activating an alarm condition during the entry delay period if an entry zone is activated first.
Default: determined by zone type **Range: On or Off**

7. Final Door Logic
This option cancels the exit delay time and arms the security system immediately if the panel recognize an open and close on a circuit with this option enabled. Final Door Logic can be applied to zones programmed as Doors, Windows, and Exterior.
Default: determined by zone type **Range: On or Off**

21-5 Zone Options 2

THESE SIX OPTIONS CAN BE USED TO INDIVIDUALLY CUSTOMIZE EACH ZONE.

1. Auto Arming
This option allows the zone to be included in Auto-Arming.
(See User Program, User Programming [6] to set Auto-Arming operation)
Default: determined by zone type **Range: On or Off**

* For UL Listed systems Auto Arming is not allowed.

2. Key-Switch Arming
This option allows the zone to be included in Key-Switch Arming.
(See menu 35, PGM INPUT to program Key-Switch Arming PGM operation)
Default: determined by zone type **Range: On or Off**

3. Night Bypass
This option allows the zone to be automatically bypassed when the D Key is used to arm the system and the Quad Key has been programmed for Night Bypass Arming.
(See menu 32-2, D Key Options for information about using the D Key for Night Bypass)
Default: determined by zone type **Range: On or Off**

21 ZONE CONFIGURATION

4. Day Zone
This option allows a 24 hour zone to provide an audible and visual zone trouble indication and to report a trouble indication (rather than alarm) while the system is disarmed.
Note: the loop type must be programmed for EOL in menu 21-2, Loop Type.
Default: determined by zone type **Range: On or Off**

5. Silent Day / Audible Night
This option inhibits a 24 hour zone from energizing the bell output or keypad indicator during the disarm period.
Note: PGMs will function if selected as an alarm output in menu 21-7.
Default: determined by zone type **Range: On or Off**

6. Silent Always
This option inhibit a 24 hour zone from energizing the bell output.
Note: this option also inhibits the keypad tone and alarm message display. PGMs will function if selected as an alarm output in menu 21-7.
Default: determined by zone type **Range: On or Off**

21-6 Zone Options 3
THESE EIGHT OPTIONS CAN BE USED TO INDIVIDUALLY CUSTOMIZE EACH ZONE.

1. Telephone
This option allows the security system to transmit all enabled zone reporting codes to the central station. These report codes include: alarm, trouble, bypass or restore condition.
Default: determined by zone type **Range: On or Off**

2. Bypass Allowed
This option allows the user to manually bypass zones upon arming and must be enabled to allow the alarm system to perform force arming.
(See User Manual, Zone Bypass; menu 31-1-3, Force Arm; menu 31-1-4, Force Arm on Auto Arm)
Default: determined by zone type **Range: On or Off**

3. Swinger Shutdown
This option allows the zone to be shunted (both bell and communicator) automatically by the alarm system during an armed period after one alarm condition has been generated. This bypass status will be reset 48 hours after alarm or by disarming the system..
Default: determined by zone type **Range: On or Off**

4. Display Armed
This option allows the zone to display on the keypad should an alarm condition occur during the armed period.
Default: determined by zone type **Range: On or Off**

5. Walk Test
This option allows the zone to be included in the walk test option. (*See User manual)*
Default: determined by zone type **Range: On or Off**

6. Chime
This option allows the zone to activate for local annunciation during the disarm period.
(See User Manual; menu 31-2-6, Auto Chime on Disarm)
Default: determined by zone type **Range: On or Off**

MENU 2 CHART

21- Zone Configuration
Select Zone Number
21-Z#- 01 Zone Type
21-Z#-02 Loop Type
21-Z#-03 Loop Response
21-Z#-04 Zone Options 1
1. Entry Delay 1
2. Entry Delay 2
3. Exit Delay 1
4. Exit Delay 2
5. Ignore During Delay
6. Entry Follower
7. Final Door

21-Z#-05 Zone Options 2
1. Auto-Arm
2. Key-Switch Arm
3. Night Bypass
4. Day Zone
5. Silent Day/Aud. Night
6. Silent Always

21-Z#-06 Zone Options 3
1. Telephone
2. Bypass Allowed
3. Swinger Shutdown
4. Display Armed
5. Walk Test
6. Chime
7. Bell
8. Pulse Bell

21-Z#-07 Zone Options 4
1. PGM 1
2. PGM 2
3. PGM 3

21-Z#-08 Zone Options 5
1. Arming Area 1
2. Arming Area 2
3. Arming Area 3
4. Arming Area 4

21-9 Zone Name

MENU 2 CHART

Select Zone Number
21 Zone Configuration
21-Z#-01 Zone Type
21-Z#-02 Loop Type
21-Z#-03 Loop Response
21-Z#-04 Zone Options 1
1. Entry Delay 1
2. Entry Delay 2
3. Exit Delay 1
4. Exit Delay 2
5. Ignore During Delay
6. Entry Follower
7. Final Door
21-Z#-05 Zone Options 2
1. Auto-Arm
2. Key-Switch Arm
3. Night Bypass
4. Day Zone
5. Silent Day/Aud. Night
6. Silent Always
21-Z#-06 Zone Options 3
1. Telephone
2. Bypass Allowed
3. Swinger Shutdown
4. Display Armed
5. Walk Test
6. Chime
7. Bell
8. Pulse Bell
21-Z#-07 Zone Options 4
1. PGM 1
2. PGM 2
3. PGM 3
21-Z#-08 Zone Options 5
1. Arming Area 1
2. Arming Area 2
3. Arming Area 3
4. Arming Area 4
21-Z#-09 Zone Name

21 ZONE CONFIGURATION

7. Bell Output
This option allows the zone to energize the bell circuit on an alarm condition.
(See menu 12-1, Bell)
Default: determined by zone type **Range: On or Off**

8. Pulse Bell
This option allows the zone to energize the bell circuit in a pulsed fashion on an alarm condition.
(See menu 12-1, Bell)
Default: determined by zone type **Range: On or Off**

21-7 Zone Options 4 : PGM Outputs
THE FOLLOWING THREE OPTIONS MAY BE USED TO INDIVIDUALLY ASSIGN THE PGM OUTPUTS FOR EACH ZONE. (SEE MENU 36, PGM OUTPUTS).

1. PGM 1
This option allows the zone to energize PGM1 on activation. *(See menu 12-2, PGM 1)*
Default: Off **Range: On or Off**

2. PGM 2
This option allows the zone to energize PGM2 on activation. *(See menu 12-3, PGM 2)*
Default: Off **Range: On or off**

3. PGM 3
This option allows the zone to energize PGM3 on activation. *(See menu 12-4, PGM 3)*
Default: Off **Range: On or off**

21-8 Zone Options 5
This option assignss the zone to any combination of the four Arming Areas (for Area Arming).
Default: no areas **Range: 1 2 3 4**

21-9 Zone Naming
Select the character from the list below and press the corresponding number followed by the ON button. Use the D button to move the cursor forward across the LCD display and the C button to move the cursor backwards. To erase a character, either enter the number of the new character you wish to insert, or enter 32 to create a blank space. When finished, press Enter to save changes or # to exit without saving changes. The A button can be used to scroll forward through the list of letters and characters while the B button scrolls in reverse. OFF will clear all characters from the display.

32=Blank
33=!
34=“
35=#
36=$
37=%
38=&
39=’
40=(
41=)
42=*
43=+
44=,
45=-
46=.
47=/
48=0
49=1
50=2
51=3
52=4
53=5
54=6
55=7
56=8
57=9
58=:
59=:
60=<
61==
62=>
63=?
64=@
65=A
66=B
67=C
68=D
69=E
70=F
71=G
72=H
73=I
74=J
75=K
76=L
77=M
78=N
79=O
80=P
81=Q
82=R
83=S
84=T
85=U
86=V
87=W
88=X
89=Y
90=Z
91=[
92=
93=]
94=^
95=-
96=’
97=a
98=b
99=c
100=d
101=e
102=f
103=g
104=h
105=i
106=j
107=k
108=l
109=m
110=n
111=o
112=p
113=q
114=r
115=s
116=t
117=u
118=v
119=w
120=x
121=y
122=z
123={
124=|
125=}
126=à
127=ß

MENU 3 - SYSTEM OPTIONS

31 SYSTEM FEATURES

THESE SEVEN MENUS SET SYSTEM CHARACTERISTICS FOR THE SECURITY SYSTEM.

31-1 System Options 1

THESE EIGHT OPTIONS DETERMINE THE OPERATING CHARACTERISTICS OF THE SECURITY SYSTEM.

1. Need PIN to Arm
This option requires a valid user PIN to be entered to arm the security system.
Default: Off **Range: On or Off**

2. Need PIN to Bypass
This option require a valid user PIN entry in order to bypass zone(s) or to Force Arm.
(See menu 21-6-2, Bypass Allowed to select bypass for each zone)
Default: Off **Range: On or Off**

3. Force Arm
This option allows the security system to automatically bypass non-secure zones that have the "Bypass Allowed" option enabled in Zone Option 2. *(See menu 21-6-2, Bypass Allowed to select bypass for each zone)*
Note: This zone will become an active zone if the circuit resets during the armed period.
Default: Off **Range: On or Off**
* For UL Listed systems Force Arm is not allowed.

4. Force Arm On Auto-Arming
This option allows the security system to Auto-Arm if there are zones in a non-secure condition that have the "Bypass Allowed" option enabled. *(See menu 21-6-2, Bypass Allowed to select bypass for each zone)*
Note: This zone will become an active zone if the circuit resets during the armed period.
Default: Off **Range: On or Off**
* For UL Listed systems Force Arm On Auto Arm is not allowed.

5. Quick Exit
This option disables all Door, Window, Interior, and Exterior Zones for two minutes to allow the user to perform a "Quick-Exit" from the premise without disarming the security system. The system automatically reverts to the original armed mode two minutes after the operation is performed.
Operation: [↑] + 0.
Default: On **Range: On or Off**

6. Default Installer PIN with Hardware Reset
This option allows the installer PIN to be reset to the factory default (9999) with the following hardware reset command. This command only resets the Installers code, other programming is unaffected.
It is not possible to default installer PIN if this option is turned OFF.
Operation: place a short between TP 12 and TP 14 for 5 seconds (+ / -)
Default: On **Range: On or Off**

7. Up-Arming Enabled
This option allows the user to arm additional parts of the alarm system while the system is armed. Up-Arming is only available with Zone Type and Area Arming Methods *(See menu 32-1, Quad Key Arming Method)*
Default: On **Range: On or Off**

8. Exit Delay on Up-Arming
This option activates exit delays when an Up-Arm command is used.
Default: On **Range: On or Off**

MENU 3 CHART

31 System Features
31-1 System Options 1
1. Need PIN to Arm
2. Need PIN to Bypass
3. Force-Arm
4. Force-Arm on Auto Arm
5. Quick-Exit
6. Default Install PIN
7. Up-Arming Enabled
8. Exit Delay on Up-Arm
31-2 System Options 2
1. KP Tone on Entry
2. KP Tone on Exit
3. Bell on Entry
4. Bell on Exit
5. Automatic Bell Test
6. Auto-Chime on Disarm
31-3 System Options 3
1. Crystal Clock
2. AC Clock 50/60Hz
3. Daylight Savings
32 Quad Key Functions
32-1 Arming Method
32-2 D Key Options
33 Keypad Configuration
Select Keypad
33-1 Keypad 1
33-2 Keypad 2
33-3 Keypad 3
33-4 Keypad 4
34-1 Keypad Alarms
1. KP Silent Panic
2. KP Audible Panic
3. KP Fire
4. KP Emergency
35 PGM Input
35-1 PGM (3) Type
0. Disabled (Output)
1. Monetary Key-Switch
2. Latching Key-Switch
3. Box Tamper
4. Sensor Tamper
36 PGM Output
36-1 PGM (1) Type
36-2 PGM (2) Type
36-3 PGM (3) Type
37 History Store \ Print
1. Alarm \ Restore
2. Trouble \ Restore
3. Open \ Close
4. Timed Print History

MENU 3 CHART

31 System Features
31-1 System Options 1
1. Need PIN to Arm
2. Need PIN to Bypass
3. Force-Arm
4. Force-Arm on Auto Arm
5. Quick-Exit
6. Default Install PIN
7. Up-Arming Enabled
8. Exit Delay on Up-Arm
31-2 System Options 2
1. KP Tone on Entry
2. KP Tone on Exit
3. Bell on Entry
4. Bell on Exit
5. Automatic Bell Test
6. Auto-Chime on Disarm
31-3 System Options 3
1. Crystal Clock
2. AC Clock 50/60Hz
3. Daylight Savings
32 Quad Key Functions
32-1 Arming Method
32-2 D Key Options
33 Keypad Configuration
Select Keypad
33-1 Keypad 1
33-2 Keypad 2
33-3 Keypad 3
33-4 Keypad 4
34-1 Keypad Alarms
1. KP Silent Panic
2. KP Audible Panic
3. KP Fire
4. KP Emergency
35 PGM Input
35-1 PGM (3) Type
0. Disabled (Output)
1. Monetary Key-Switch
2. Latching Key-Switch
3. Box Tamper
4. Sensor Tamper
36 PGM Output
36-1 PGM (1) Type
36-2 PGM (2) Type
36-3 PGM (3) Type
37 History Store \ Print
1. Alarm \ Restore
2. Trouble \ Restore
3. Open \ Close
4. Timed Print History

31 SYSTEM FEATURES

31-2 System Options 2

THESE SIX OPTIONS DETERMINE THE OUTPUT CHARACTERISTICS OF THE SECURITY SYSTEM INCLUDING KEYPAD TONES AND BELL.

1. Keypad Tone on Entry Delay
This option allows the Keypad Audible to energize during the Entry Delay period.
Default: On **Range: On or Off**

2. Keypad Tone on Exit Delay
This option allows the Keypad Audible to energize during the Exit Delay period.
Default: On **Range: On or Off**

3. Bell Output on Entry Delay
This option allows the Bell Output to energize during the Entry Delay.
Default: Off **Range: On or Off**

4. Bell Output on Exit Delay
This option allows the Bell Output to energize during the Exit Delay.
Default: Off **Range: On or Off**

5. Automatic Bell Test
This option energizes the Bell Output for 2 seconds once the exit delay has expired and the security system has armed.
Default: Off **Range: On or Off**

6. Auto Chime on Disarm
This option allows the system to automatically activate Chime Mode upon disarming.
Default: Off **Range: On or Off**

31-3 System Options 3

THESE THREE OPTIONS WILL DETERMINE THE OPERATING CHARACTERISTICS FOR THE ALARM SYSTEM CLOCK.

1. Crystal Clock Control
This option allows the system's internal crystal to control the clock operation.
Default: Off **Range: On or Off**

2. AC = 50 Hz
This option determines the operating frequency of the clock.
Default: Off (60Hz) **Range: On (50Hz) or Off (60Hz)**

3. Daylight Savings (USA)
This option allows the system to automatically adjust the clock to compensate for Daylight Savings Time.
Default: Off **Range: On or Off**

PROGRAMMING RECORD SHEET

Enter system times in Menu 1-11 and 12.

Configure zones in Menu 2. First select the Zone Number, then set the Zone Type, Loop Type, and Response Time. Zone Options can be further customized for each zone in Menu 21-4 through 21-6. Assign zones to PGMs and Arming Areas in Menu 21-7 and 21-8. Asign names to each zone in Menu 21-9.

11-DELAY TIMES	DEFAULT	RANGE	ENTRY
11-1 PRE-ALARM	00 sec	00-99 sec	
11-2 ENTRY DELAY 1	45 sec	00-99 sec	
11-3 ENTRY DELAY 2	45 sec	00-99 sec	
11-4 EXIT DELAY 1	60 sec	00-99 sec	
11-5 EXIT DELAY 2	60 sec	00-99 sec	
12–CUTOFF TIMES	**DEFAULT**	**RANGE**	
12-1 BELL	10 MIN	00-99 MIN	
12-2 PGM 1 (0=5SEC)	10 MIN	00-99 MIN	
12-3 PGM 2 (0=5SEC)	10 MIN	00-99 MIN	
12-4 PGM 3 (0=5SEC)	10 MIN	00-99 MIN	

Menu 2- Select Zone Number and programming address.

21-ZONE CONFIGURATION	DEFAULT	RANGE	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
21-Z#-1 ZONE TYPE	VARIABLE	01-06								
21-Z#-2 LOOP TYPE	04	01-06								
21-Z#-3 LOOP RESPONSE	05X 50MS	00-99								

ZONE TYPE	DESCRIPTION	DEFAULT
01	DOOR	SEE 21-4 THRU 21-6
02	WINDOW	SEE 21-4 THRU 21-6
03	INTERIOR	SEE 21-4 THRU 21-6
04	EXTERIOR	SEE 21-4 THRU 21-6
05	24 HR	SEE 21-4 THRU 21-6
06	FIRE	SEE 21-4 THRU 21-6

LOOP TYPE	DESCRIPTION	EOL REQUIREMENT
01	NC	YES (2 EOL)
02	NC	YES (1 EOL)
03	NC	NO EOL
04	NO \ NC	YES (1 EOL)
05	NO	YES (1 EOL)
06	NO	NO EOL

PRE-SET ZONE TYPES / DEFAULT OPTION SETTINGS

	(01)	(02)	(03)	(04)	(05)	(06)									
21-Z#-4 Zone Options 01	DOOR	WINDOW	INTERIOR	EXTERIOR	24HR	FIRE	RANGE	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
1. ENTRY DELAY 1	ON			ON			ON\OFF								
2. ENTRY DELAY 2							ON\OFF								
3. EXIT DELAY 1	ON	ON	ON	ON			ON\OFF								
4. EXIT DELAY 2							ON\OFF								
5. IGNORE DURING DELAY							ON\OFF								
6. ENTRY FOLLOWER			ON				ON\OFF								
7. FINAL DOOR							ON\OFF								

PRE-SET ZONE TYPES / DEFAULT OPTION SETTINGS

	(01)	(02)	(03)	(04)	(05)	(06)									
21-Z#-5 Zone Options 02	DOOR	WINDOW	INTERIOR	EXTERIOR	24HR	FIRE	RANGE	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
1. AUTO-ARM	ON	ON	ON				ON\OFF								
2. KEY-SWITCH ARM	ON	ON	ON				ON\OFF								
3. NIGHT BY-PASS							ON\OFF								
4. DAY ZONE							ON\OFF								
5. SILENT DAY/AUD NIGHT							ON\OFF								
6. SILENT ALWAYS							ON\OFF								

PRE-SET ZONE TYPES / DEFAULT OPTION SETTINGS

	(01)	(02)	(03)	(04)	(05)	(06)									
21-Z#-6 Zone Options 03	DOOR	WINDOW	INTERIOR	EXTERIOR	24HR	FIRE	RANGE	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
1. TELEPHONE	ON	ON	ON		ON	ON	ON\OFF								
2. BYPASS ALLOWED	ON	ON	ON	ON	ON		ON\OFF								
3. SWINGER SHUNT	ON	ON	ON				ON\OFF								
4. DISPLAY ARMED	ON	ON	ON	ON	ON	ON	ON\OFF								
5. WALK TEST	ON	ON	ON	ON			ON\OFF								
6. CHIME	ON			ON			ON\OFF								
7. BELL OUTPUT	ON	ON	ON	ON	ON		ON\OFF								
8. PULSE BELL							ON\OFF								

PROGRAMMING RECORD SHEET

21-Z#-7 Zone Options 4	Default	Range	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
1. PGM 1	Off	on\off								
2. PGM 2	Off	on\off								
3. PGM 3	Off	on\off								
21-Z#-8 Zone Options 5	Default	Range	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
1. Arming Area 1	Off	on\off								
2. Arming Area 2	Off	on\off								
3. Arming Area 3	Off	on\off								
4. Arming Area 4	Off	on\off								
21-Z#-9 Zone Name	Default									
21-Z1-9 Zone 01 Name	01	- - - - - - - - - - - - - - - -								
21-Z2-9 Zone 02 Name	02	- - - - - - - - - - - - - - - -								
21-Z3-9 Zone 03 Name	03	- - - - - - - - - - - - - - - -								
21-Z4-9 Zone 04 Name	04	- - - - - - - - - - - - - - - -								
21-Z5-9 Zone 05 Name	05	- - - - - - - - - - - - - - - -								
21-Z6-9 Zone 06 Name	06	- - - - - - - - - - - - - - - -								
21-Z7-9 Zone 07 Name	07	- - - - - - - - - - - - - - - -								
21-Z8-9 Zone 08 Name	08	- - - - - - - - - - - - - - - -								

31-System Features	Default	Range	Entry
31-1 System Options 1			
1. Need PIN to Arm	Off	On\Off	
2. Need PIN to Bypass	Off	On\Off	
3. Force-Arm	Off	On\Off	
4. Force on Auto-Arm	Off	On\Off	
5. Quick Exit	On	On\Off	
6. Default Installer PIN	On	On\Off	
7. Up-Arming Enabled	On	On\Off	
8. Exit Delay on Up-Arm	On	On\Off	

	Default	Range	Entry
31-2 System Options 2			
1. Keypad Tone on Entry	On	On\Off	
2. Keypad Tone on Exit	On	On\Off	
3. Bell on Entry	Off	On\Off	
4. Bell on Exit	Off	On\Off	
5. Automatic Bell Test	Off	On\Off	
6. Auto Chime on Disarm	Off	On\Off	

	Default	Range	Entry
31-3 System Options 3			
1. Crystal Clock Control	Off	On\Off	
2. AC = 50 Hz	Off	On\Off	
3. Daylight Savings (USA)	Off	On\Off	

32 Quad Key Function	Default	Range	Entry
32-1 Arming Method	01	01-03	
32-2 D Key Options	01	00-03	
33 Keypad Configuration	**Default**	**Range**	**Entry**
33-1 Keypad 1	1 2 3	1 2 3	
33-2 Keypad 2	- 2 3	1 2 3	
33-3 Keypad 3	- 2 3	1 2 3	
33-4 Keypad 4	- 2 3	1 2 3	

34 Keypad Alarms	Default	Range	Entry
Select Keypad Number			
34-1 Keypad Alarms			
1. KP Silent Panic	Off	On\Off	
2. KP Audible Panic	Off	On\Off	
3. KP Fire	Off	On\Off	
4. KP Emergency	Off	On\Off	

35 PGM 3 Input	Default	Range	Entry
35-1 PGM Type	00	00-04	

Quad Key Functions
01 Zone Type Arming
02 Mode Type Arming
03 Area Arming

D Key Options
00 Disabled
01 Exterior Zones
02 Night Bypass
03 Arming Area 4

PGM 3 Functions
00 Disabled
01 Momentary Key-Switch
02 Latching Key-Switch
03 Box Tamper
04 Sensor Tamper

PROGRAMMING RECORD SHEET

36-PGM Output	Default	Range	Entry
36-1 PGM 1	00	00-20	
36-2 PGM 2	00	00-19	
36-3 PGM 3	00	00-19	
37-History Store \ Print	**Default**	**Range**	**Entry**
37-1 History Store \ print			
1. Alarm \ Restore	On	On\Off	
2. Trouble \ Restore	On	On\Off	
3. Open \ Close	Off	On\Off	
4. Timed Print History	Off	On\Off	

41-PINs	Default	Range	Entry
41-1 Installer PIN	9999	0000-9999	
41-2 Duress PIN	----	0000-9999	
41-3 User 1 PIN	1234	0000-9999	

61 Receiver 1	Default	Range	Entry
1. Telephone Number	FFFFFFFFFFFFFFF	0-9	
2. Account Number	FFFF	0000-FFFF	
3. Receiver Format	01	01-15	
4. Dial Attempts	12	01-15	
62 Receiver 2	**Default**	**Range**	**Entry**
1. Telephone Number	FFFFFFFFFFFFFFF	0-9	
2. Account Number	FFFF	0000-FFFF	
3. Receiver Format	01	01-15	
4. Dial Attempts	12	01-15	

63 Receiver Options	Default	Range	Entry
63-1 Alarm Options	04	00-04	
63-2 Open Close Options	04	00-04	
63-3 System Options	04	00-04	

64 Dial Features	Default	Range	Entry
64-1 Dial Features			
1. Touch Tone (On) or Rotary (Off)	On (TT)	On\Off	
2. Rotary Fallback	On	On\Off	
3. 2300Hz (on) or 1400Hz (Off) Tones	Off	On\Off	
4. TLM	Off	On\Off	
64-2 Delay Before Dial	60 sec	00-99 sec	
64-3 Anti Jam	00 sec	00-99 sec	
64-4 AC Fail Delay	01(10min)	00-99x10min	

65 Self Test	Default	Range	Entry
65-1 Fixed \ Start Time	00:00	00:00-23:59	
65-2 Test Option	00	00-02	

66 Personal Alarm Call	Default	Range	Entry
66-1 Telephone Number	FFFFFFFFFFFFFFF	0-9	
66-2 Tone 1 Assignment	1 2 -	1 2 3	
66-3 Tone 2 Assignment	- - 3	1 2 3	
66-4 Report Tone Duration	60	01-99	

Pgm Options	
00	Disabled
01	Ground Start
02	Utility w/PIN
03	Utility w/o PIN
04	Entry\Exit Follower
05	Follow Keypad Tone
06	Follow Bell
07	Follow Armed Status
08	Follow Disarmed Status
09	Any Alarm Condition
10	Any Trouble Condition
11	Any Open Zone
12	Zone Alarm
13	Keypad Panic
14	Keypad or Zone Fire
15	Keypad Emergency
16	Latch on Alarm
17	Reset w/Switched Aux
18	Random Generator
19	Alarm Memory Indicator
20	PGM 1 for 2-Wire Smokes (selectable for pgm 1 only)

Receiver Options	
00	Both Receivers Disabled
01	Receiver 1 Only
02	Receiver 2 Only
03	Both Recievers 1 & 2
04	Receiver 1 w/Receiver 2 as Back-up

Personal Call Assigments	
1	Zone Alarms/Restores/Troubles
2	System Troubles/Trouble Restores
3	Open & Close

PROGRAMMING RECORD SHEET

67-PAGER	DEFAULT	RANGE	ENTRY
67-1 TELEPHONE NUMBER	FFFFFFFFFFFFFF	0-9	
67-2 MESSAGE ASSIGNMENT	- - -	1 2 3	
67-3 RANGE / ALARM CODE	01FF	0000-FFFF	
67-4 RANGE / TROUBLE CODE	01FF	0000-FFFF	
67-5 RANGE / OPEN / CLOSE CODE	01FF	0000-FFFF	
67-6 MESSAGE HEADER -ALARM	FFFF	0000-FFFF	
67-7 MESSAGE HEADER -TROUBLE	FFFF	0000-FFFF	
67-8 MESSAGE HEADER -OPEN / CLOSE	FFFF	0000-FFFF	
67-9 PAGER DELAY	10SEC	01-20SEC	

71 ZONE REPORT CODES	DEFAULT	RANGE	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
71-1 ZONE ALARM	00	00-FF								
71-2 ZONE TROUBLE	00	00-FF								
71-3 ZONE BYPASS	00	00-FF								
71-4 ZONE RESTORE	00	00-FF								

72 KEYPAD REPORT CODES	DEFAULT	RANGE	ENTRY
72-1 KEYPAD PANIC	00	00-FF	
72-2 KEYPAD FIRE	00	00-FF	
72-3 KEYPAD EMERGENCY	00	00-FF	

73 USER ARM REPORT CODES	DEFAULT	RANGE	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
73-1 USER OPEN	00	00-FF								
73-2 USER CLOSE	00	00-FF								

74 TROUBLE REPORT CODES (1)	DEFAULT	RANGE	ENTRY
74-1 AC FAIL	00	00-FF	
74-2 AC FAIL RESTORE	00	00-FF	
74-3 LOW BATTERY	00	00-FF	
74-4 BATTERY RESTORE	00	00-FF	
74-5 BOX TAMPER	00	00-FF	
74-6 BOX TAMPER RESTORE	00	00-FF	
74-7 BELL FAULT TROUBLE	00	00-FF	
74-8 BELL FAULT RESTORE	00	00-FF	

75 TROUBLE REPORT CODES (2)	DEFAULT	RANGE	ENTRY
75-1 BUS FAIL	00	00-FF	
75-2 BUS FAIL RESTORE	00	00-FF	
75-3 AUX POWER TROUBLE	00	00-FF	
75-4 AUX POWER RESTORE	00	00-FF	
75-5 CLOCK TROUBLE	00	00-FF	
75-6 CLOCK RESTORE	00	00-FF	
75-7 TELEPHONE TROUBLE	00	00-FF	
75-8 TELEPHONE RESTORE	00	00-FF	

76 TROUBLE REPORT CODES (3)	DEFAULT	RANGE	ENTRY
76-1 SENSOR TAMPER TROUBLE	00	00-FF	
76-2 SENSOR TAMPER RESTORE	00	00-FF	
76-3 COMMUNICATION FAIL	00	00-FF	

76 TROUBLE REPORT CODES (3)	DEFAULT	RANGE	ENTRY
76-1 SENSOR TAMPER TROUBLE	00	00-FF	
76-2 SENSOR TAMPER RESTORE	00	00-FF	
76-3 COMMUNICATION FAIL	00	00-FF	

77 MISCELLANEOUS REPORT CODES (1)	DEFAULT	RANGE	ENTRY
77-1 DURESS	00	00-FF	
77-2 CANCEL	00	00-FF	
77-3 AUTO ARM	00	00-FF	
77-4 FAIL TO AUTO ARM	00	00-FF	
77-5 SELF-TEST	00	00-FF	
77-6 ABNORMAL TEST CODE	00	00-FF	
77-7 RECENT CLOSE	00	00-FF	
77-8 EXIT ERROR	00	00-FF	

78 MISCELLANEOUS REPORT CODES (2)	DEFAULT	RANGE	ENTRY
78-1 FORCE ARM	00	00-FF	
78-2 REMOTE ARM (RPU)	00	00-FF	
78-3 REMOTE DISARM (RPU)	00	00-FF	
78-4 FULL ARM	00	00-FF	
78-5 PARTIAL ARM	00	00-FF	

79 2-WIRE SMOKE REPORT CODES	DEFAULT	RANGE	ENTRY
79-1 2-WIRE SMOKE ALARM	00	00-FF	
79-2 2-WIRE SMOKE TROUBLE	00	00-FF	
79-3 2-WIRE SMOKE RESTORE	00	00-FF	

81-DOWNLOAD (RPU)	DEFAULT	RANGE	ENTRY
81-1 TELEPHONE NUMBER	FFFFFFFFFFFFFF	0-9	
81-2 PANEL ACCESS ID	FFFF	0000-FFFF	
81-3 LOCAL RPU PIN	FFFF	0000-FFFF	
81-4 RPU FEATURES	- -	1 2	
1. DOUBLE CALLING	OFF	ON\OFF (# DISPLAYED =ON)	
2. CALL BACK	OFF	ON\OFF (# DISPLAYED = ON)	
81-5 NUMBER OF RING	12	01-99	
81-6 DOUBLE CALL WAIT TIME	60 SEC	00-99 SEC	

32 Quad Key Functions

These two items determine the arming characteristics of the Quad Keys.

32-1 Quad Key Arming Method

This option determines the operation of the Quad Keys. Select the arming mode which best suits your installation.

Default: 01 **Range: 01 Zone Type Arming**
02 Mode Arming
03 Area Arming

Zone Type Arming	Mode Arming	Area Arming
A- arms doors only	A- arms all zone types	A- arms zones assigned to G1
B- arms windows only	B- arms all but interior	B- arms zones assigned to G2
C- arms interior only	C- arms all but interior, no delay	C- arms zones assigned to G3
D- programmable	D- programmable	D- programmable

Zone Type Arming allows users to arm multiple Quad Keys at the same time and Up-Arm while the system is armed.

Mode Arming allows users to arm A, B, or C individually and operate (D) independently.

Area Arming allows users to arm multiple Quad Keys at the same time and Up-Arm while the system is armed.

32-2 D Key Options

Select the function of the D Key from the following four options:

Default: 01 **Range: 00 - 03**

00 Disabled Disabled
01 Exterior Zones Arms Exterior Zone Types
02 Night Bypass Arm entire system except zones programmed for Night Bypass
03 Assigned Area Arms zones assigned to Arming Area 4 (*see menu21-Z#-08, Arming Area 4*)

Menu 3 Chart

31 System Features
31-1 System Options 1
1. Need PIN to Arm
2. Need PIN to Bypass
3. Force-Arm
4. Force-Arm on Auto Arm
5. Quick-Exit
6. Default Install PIN
7. Up-Arming Enabled
8. Exit Delay on Up-Arm
31-2 System Options 2
1. KP Tone on Entry
2. KP Tone on Exit
3. Bell on Entry
4. Bell on Exit
5. Automatic Bell Test
6. Auto-Chime on Disarm
31-3 System Options 3
1. Crystal Clock
2. AC Clock 50/60Hz
3. Daylight Savings
32 Quad Key Functions
32-1 Arming Method
32-2 D Key Options
33 Keypad Configuration
Select Keypad
33-1 Keypad 1
33-2 Keypad 2
33-3 Keypad 3
33-4 Keypad 4
34-1 Keypad Alarms
1. KP Silent Panic
2. KP Audible Panic
3. KP Fire
4. KP Emergency
35 PGM Input
35-1 PGM (3) Type
0. Disabled (Output)
1. Monetary Key-Switch
2. Latching Key-Switch
3. Box Tamper
4. Sensor Tamper
36 PGM Output
36-1 PGM (1) Type
36-2 PGM (2) Type
36-3 PGM (3) Type
37 History Store \ Print
1. Alarm \ Restore
2. Trouble \ Restore
3. Open \ Close
4. Timed Print History

MENU 3 CHART

31 System Features
31-1 System Options 1
1. Need PIN to Arm
2. Need PIN to Bypass
3. Force-Arm
4. Force-Arm on Auto Arm
5. Quick-Exit
6. Default Install PIN
7. Up-Arming Enabled
8. Exit Delay on Up-Arm
31-2 System Options 2
1. KP Tone on Entry
2. KP Tone on Exit
3. Bell on Entry
4. Bell on Exit
5. Automatic Bell Test
6. Auto-Chime on Disarm
31-3 System Options 3
1. Crystal Clock
2. AC Clock 50/60Hz
3. Daylight Savings
32 Quad Key Function
32-1 Arming Method
32-2 D Key Options
33 Keypad Configuration
Select Keypad
33-1 Keypad 1
33-2 Keypad 2
33-3 Keypad 3
33-4 Keypad 4
34-1 Keypad Alarms
1. KP Silent Panic
2. KP Audible Panic
3. KP Fire
4. KP Emergency
35 PGM Input
35-1 PGM (3) Type
0. Disabled (Output)
1. Monetary Key-Switch
2. Latching Key-Switch
3. Box Tamper
4. Sensor Tamper
36 PGM Output
36-1 PGM (1) Type
36-2 PGM (2) Type
36-3 PGM (3) Type
37 History Store \ Print
1. Alarm \ Restore
2. Trouble \ Restore
3. Open \ Close
4. Timed Print History

33 KEYPAD CONFIGURATIONS

THESE THREE OPTIONS DETERMINE THE OPERATING CHARACTERISTICS FOR EACH KEYPAD.

SELECT KEYPAD NUMBER (SELECT THE KEYPAD NUMBER YOU WISH TO PROGRAM).

33-01 Keypad 1

Select each of the keypad characteristics from the 3 options listed below.

Default: 1 2 3 **Range: 1 2 3**

1. Keypad Enabled

The data bus for the keypads is a supervised output which requires that each keypad be addressed with the dip switches on the back of each keypad. The keypads must also be enabled in the installers program. The alarm system will generate a trouble condition if this option is not correctly programmed.

Note: *Keypad 1 cannot be disabled.*

2. Keypad Audible

This option will allow the keypad to be silent on entry, exit, trouble, alarm and Walk Test.

* For UL Listed systems all keypads shall be audible.

3. Keypad Chime

This option will determine if the keypad will be silent or energize a tone during the Chime mode. *(See menu 31-2-6, Auto Chime on Disarm).*

33-02 Keypad 2

Select each of the keypad characteristics from the 3 options listed above.

Default: 2 3 **Range: 1 2 3**

33-03 Keypad 3

Select each of the keypad characteristics from the 3 options listed above.

Default: 2 3 **Range: 1 2 3**

33-04 Keypad 4

Select each of the keypad characteristics from the 3 options listed above.

Default: 2 3 **Range: 1 2 3**

34 KEYPAD ALARMS

THESE FOUR OPTIONS DETERMINE THE KEYPAD ALARM CHARACTERISTICS FOR THE SECURITY SYSTEM.

34-1 Keypad Alarms

1. Keypad Panic Silence

This option will allow the *Silent Keypad Panic Alarm* to be initiated by simultaneously pressing (2) + (3) for 2 seconds (+\-) at any keypad. This option will energize PGM Outputs and report codes if programmed.

(See menu 72-1, Keypad Panic; 36-3-13, PGM 3 Output-KP Panic)

Default: Off **Range: On or Off**

2. Keypad Panic Audible

This option will allow an *Audible Keypad Panic Alarm* to be initiated by simultaneously pressing (2) + (3) for 2 seconds (+\-) at any keypad. This option will energize the bell output, PGM Output, keypad audible, keypad display, and report code if programmed.

(See menu 72-1, Keypad Panic; 36-3-13, PGM 3 Output-KP Panic)

Default: Off **Range: On or Off**

34 KEYPAD ALARMS

34-1 Keypad Alarms

3. Keypad Fire Alarm
This option will allow a Keypad Fire Alarm to be initiated by simultaneously pressing (5) + (6) for 2 seconds (+\-) at any keypad. This option will energize the ***pulsed*** bell output, PGM Output, keypad beep sounds, keypad display and transmit the Fire report code if enabled in menu 72-2.
(See menu 36-3-14, PGM 3 Output-KP and Zone Fire Alarm)
Default: Off **Range: On or Off**

4. Keypad Emergency
This option will allow a *Keypad Emergency Alarm* to be initiated by simultaneously pressing (8) + (9) for 2 seconds (+\-) at any keypad. This option will energize the steady bell output, PGM Output, keypad audible, keypad display and will transmit the Emergency report code if enabled in menu 72-3.
(See menu 36-3-15, PGM 3 Output-KP Emergency Alarm)
Default: Off **Range: On or Off**

35 PGM-INPUT

THIS OPTION DETERMINES THE OPERATING CHARACTERISTICS OF PGM 3. THIS PGM MAY BE USED AS AN OUTPUT OR YOU MAY SELECT ONE OF THE INPUT OPTIONS LISTED BELOW.

35-1 PGM 3 Type
Default: 00 **Range: 00-04**

00. Disabled (Output)
The terminals for PGM 3 will be used as an output.

01. Momentary Key-Switch Input
The terminals for PGM 3 will be used as an auxiliary input for a momentary arming device.

02. Latching Key-Switch Input
The terminals for PGM 3 will be used as an auxiliary input for a latching arming device.

03. Box Tamper Input
The terminals for PGM 3 will be used as an auxiliary input for a cabinet tamper that will transmit the Box Tamper Report Code and indicate a trouble condition at keypads.
(See menu 74-5, Box Tamper)

04. Sensor Tamper Input
The terminals for PGM 3 will be used as an auxiliary input for a sensor tamper that will transmit the Sensor Tamper Loop Trouble Report Code with no indication at keypads..
(See menu 76-1, Sensor Tamper)

36 PGM-OUTPUTS

THESE THREE ITEMS DETERMINE THE OPERATING CHARACTERISTICS FOR EACH OF THE PGM OUTPUTS.
THESE OUTPUTS ARE LOW CURRENT TRANSISTOR OUTPUTS THAT SINKS TO GROUND ON ACTIVATION.
WARNING: CARE MUST BE TAKEN NOT TO EXCEED 50MA CURRENT DRAW.

36-1 PGM 1 Type
You may select *one* of the following options from the chart on page 20.
Default: 00 **Range: 00-20**

36-2 PGM 2 Type
You may select *one* of the following options from the chart on page 20.
Default: 00 **Range: 00-19**

MENU 3 CHART

31 System Features
31-1 System Options 1
1. Need PIN to Arm
2. Need PIN to Bypass
3. Force-Arm
4. Force-Arm on Auto Arm
5. Quick-Exit
6. Default Install PIN
7. Up-Arming Enabled
8. Exit Delay on Up-Arm
31-2 System Options 2
1. KP Tone on Entry
2. KP Tone on Exit
3. Bell on Entry
4. Bell on Exit
5. Automatic Bell Test
6. Auto-Chime on Disarm
31-3 System Options 3
1. Crystal Clock
2. AC Clock 50/60Hz
3. Daylight Savings
32 Quad Key Function
32-1 Arming Method
32-2 D Key Options
33 Keypad Configuration
Select Keypad
33-1 Keypad 1
33-2 Keypad 2
33-3 Keypad 3
33-4 Keypad 4
34-1 Keypad Alarms
1. KP Silent Panic
2. KP Audible Panic
3. KP Fire
4. KP Emergency
35 PGM Input
35-1 PGM (3) Type
0. Disabled (Output)
1. Monetary Key-Switch
2. Latching Key-Switch
3. Box Tamper
4. Sensor Tamper
36 PGM Output
36-1 PGM (1) Type
36-2 PGM (2) Type
36-3 PGM (3) Type
37 History Store \ Print
1. Alarm \ Restore
2. Trouble \ Restore
3. Open \ Close
4. Timed Print History

MENU 3 CHART

31 System Features
31-1 System Options 1
1. Need PIN to Arm
2. Need PIN to Bypass
3. Force-Arm
4. Force-Arm on Auto Arm
5. Quick-Exit
6. Default Install PIN
7. Up-Arming Enabled
8. Exit Delay on Up-Arm
31-2 System Options 2
1. KP Tone on Entry
2. KP Tone on Exit
3. Bell on Entry
4. Bell on Exit
5. Automatic Bell Test
6. Auto-Chime on Disarm
31-3 System Options 3
1. Crystal Clock
2. AC Clock 50/60Hz
3. Daylight Savings
32 Quad Key Options
32-1 Arming Method
32-2 D Key Function
33 Keypad Configuration
Select Keypad
33-1 Keypad 1
33-2 Keypad 2
33-3 Keypad 3
33-4 Keypad 4
34-1 Keypad Alarms
1. KP Silent Panic
2. KP Audible Panic
3. KP Fire
4. KP Emergency
35 PGM Input
35-1 PGM (3) Type
0. Disabled (Output)
1. Monetary Key-Switch
2. Latching Key-Switch
3. Box Tamper
4. Sensor Tamper
36 PGM Output
36-1 PGM (1) Type
36-2 PGM (2) Type
36-3 PGM (3) Type
37 History Store \ Print
1. Alarm \ Restore
2. Trouble \ Restore
3. Open \ Close
4. Timed Print History

36 PGM-OUTPUTS

36-3 PGM 3 Type

You may select one of the following options from the chart below. (See menu 35-1, PGM 3 Type)

Note: *Programming Option menu 35-1 must be set at 00 for PGM 3 to operate as an Output terminal. If menu 35-1 is programmed as an Input terminal, this field (menu 36-3) will not affect PGM 3.*

Default: 00 **Range: 00-19**

PGM OUTPUT PROGRAMMING OPTIONS CHART

#	PROGRAM OPTION	DESCRIPTION
00	NULL	DISABLED
01	GROUND START	USED TO ACTIVATE A RELAY PRODUCING A 2 SEC. GROUND ON TIP OR RING.
02	UTILITY PIN	OUTPUT TRIGGERED BY UTILITY PIN (SEE USER PROGRAMMING ITEM 3)*
03	UTILITY WITHOUT PIN	OUTPUT TRIGGERED BY [^] + [9]*
04	ENTRY \ EXIT FOLLOWER	OUTPUT WILL FOLLOW ENTRY EXIT TIME.
05	FOLLOWER ON BEEP	OUTPUT WILL FOLLOW KEYPAD TONE.
06	FOLLOWER BELL	OUTPUT WILL FOLLOW BELL OUTPUT.
07	ARMED OUTPUT	OUTPUT WILL FOLLOW ARMED PERIOD.
08	DISARMED OUTPUT	OUTPUT WILL FOLLOW DISARM PERIOD.
09	ANY ALARM CONDITION	OUTPUT WILL BE ACTIVE IF ANY ZONE IS IN AN ALARM CONDITION. PGM DURATION FOLLOWS PGM CUTOFF TIME.*
10	ANY TROUBLE CONDITION	OUTPUT WILL BE ACTIVE FOR ANY TROUBLE CONDITION.
11	ZONE OPEN	OUTPUT WILL BE ACTIVE FOR ZONES THAT HAVE ZONE OPTION 4 ENABLED *
12	ZONE ALARM	OUTPUT WILL BE ACTIVE IF A ZONE PROGRAMMED FOR PGM OUTPUT IS IN AN ALARM CONDITION. PGM DURATION FOLLOWS PGM CUTOFF TIME.
13	KP PANIC	OUTPUT WILL BE TRIGGERED BY THE KEYPAD PANIC FUNCTION*
14	KP AND ZONE FIRE ALARM	OUTPUT WILL BE TRIGGERED BY THE KEYPAD FIRE FUNCTION & FIRE ZONE*
15	KP EMERGENCY ALARM	OUTPUT WILL BE TRIGGERED BY THE KEYPAD EMERGENCY FUNCTION*
16	ALARM LATCHING	OUTPUT WILL REMAIN LATCHED UNTIL THE SYSTEM IS DISARMED.
17	RESET SWITCHED AUX.	OUTPUT WILL RESET WHEN [^] + [2] IS PRESSED. (APP. 10 SECS.)
18	RANDOM GENERATOR	OUTPUT WILL RANDOMLY TRIGGER EVERY 10 MINUTES STARTING WITH INITIAL POWER UP WITH RANDOM ON TIMES RANGING FROM 1 – 10 MINUTES.*
19	ALARM MEMORY	OUTPUT WILL REMAIN ON WHEN AN ALARM CONDITION HAS BEEN GENERATED. RESETS WHEN ALARM MEMORY IS CLEARED
20	ENABLE PGM 1 FOR 2 WIRE SMOKE DETECTORS	SEE WIRING DIAGRAM AND PAGE 2 FOR ADDITIONAL CONFIGURATION REQUIREMENTS.

***These PGM options follow the PGM Cut-Off Time programmed in 12-2, 12-3, 12-4**

37 HISTORY STORAGE / PRINT OUT

THE INFORMATION CONTAINED IN THE FOLLOWING FOUR MENUS DETERMINE WHICH EVENTS WILL BE STORED IN MEMORY WITH A TIME & DATE STAMP OR PRINTED IN REAL TIME TO AN ON-SITE PRINTER.

1. Any Zone Alarm/Restore/Trouble or System Alarm
This option enables all Zone Alarms, Restores, Zone Troubles and Keypad Alarms or Duress Alarms to be stored and printed.
Default: On **Range: On or Off**

2. Any System Trouble/Restore
This option enables all System Troubles and Restores to be stored and printed.
Default: On **Range: On or Off**

3. Open/Close
This option enable all Open and Close activities to be stored and printed.
Default: Off **Range: On or Off**

4. Print History Event In Real Time
This option allows an event to print to a serial printer as it occurs. If OFF is selected, the history may be printed using Installers Option 5. An LCD keypad must be installed on the system to operate printer.
Default: Off **Range: On or Off**

MENU 4 - PIN NUMBERS

THESE THREE ITEMS DETERMINE PINS USED TO ACCESS THE SECURITY SYSTEM.

41 PIN Codes

THIS OPTION ADDS OR DELETES SYSTEM PINS.
NOTE: PINS MAY NOT BE DUPLICATED. (SEE USER MANUAL FOR THE PROGRAMMING OF ARM/DISARM PINS).

41-1 Installer PIN
This PIN is needed to access the installer's program. This PIN may be changed or left at the factory default. *(See menu 31-1-6, default Installers PIN / Default Installer Program)*
Default: 9999 Range: 0000-9999

41-2 Duress PIN
This PIN is used for disarming under a duress condition. A duress report code will be transmitted to the central station when this PIN is employed. Press the OFF key to delete numbers from the Duress PIN. *(See menu 77-1, Duress)*
Default: blank Range: 0000-9999

41-3 User #1 PIN
This PIN cannot be changed in this location and may only be reviewed.
Default: 1234 Range: 0000-9999

MENU 4 CHART

41 PINs
41-1 Installer PIN
41-2 Duress PIN
41-3 User 1 PIN

MENU 6 - RECEIVER

61/62 RECEIVER 1 & Receiver 2

THESE FOUR ITEMS SET THE OPERATING CHARACTERISTICS FOR EACH CENTRAL STATION OUTPUT.
ITEMS FOR MENU 61 (RECEIVER 1) AND MENU 62 (RECEIVER 2) ARE IDENTICAL

61-1 Telephone Number
Select up to sixteen digits or characters the security system will need to dial to reach the central station. Press the OFF key to delete characters or numbers from the telephone number.
Default: FFFFFFFFFFFFFFFF Range: 0 - 9

BUTTON	ACTION
A	SCROLLS DIALING CHARACTERS BACKWARD
B	SCROLLS DIALING CHARACTERS FORWARD
C	ADVANCE CURSOR
D	REVERSE CURSOR
OFF	CLEAR DISPLAY

DIALING CHARACTERS
: = 3 SECOND DELAY
; = 5 SECOND DELAY WITH TONE DETECT OVERRIDE
* = *
=

61-2 Account Number
Enter a maximum of four digits for the account number. This account may contain a combination of numeric and hex characters.
Default: FFFF Range: 0000-FFFF

61-3 Receiver Format
Select a receiver format.
Default: 01 Range: 01-15

Note: Selecting Radio (Option 15) automatically programs PGM 2 for Key and PGM 3 for Modulation.

OPTION	FORMAT	OPTION	FORMAT
01	SIA	09	20PPS 3-1 EXT
02	CONTACT ID	10	20PPS 4-1
03	10PPS 3-1	11	20PPS 4-1 EXT
04	10PPS 3-1EXT	12	20PPS 4-2
05	10PPS 4-1	13	40PPS 3-1 W/PARITY
06	10PPS 4-1 EXT	14	VFSK 4-2
07	10PPS 4-2	15	VFSK 4-2 RADIO ONLY REC. 2 (62-3)
08	20PPS 3-1		

61-4 Dial Attempts
Select the number of times the security system will attempt to reach the central station. This option also sets the number of radio transmissions for Radio Reporting.
Default: 12 Range: 01-15

* For UL Listed systems the number of dial attempts shall be 5 - 10.

MENU 6 CHART

61 Receiver 1
1. Telephone Number
2. Account Number
3. Receiver Format
4. Dial Attempts

62 Receiver 2
1. Telephone Number
2. Account Number
3. Receiver Format
4. Dial Attempts

63 Receiver Options
63-1 Alarm Reports
63-2 Open/Close Reports
63-3 System Code Report

64 Dial Features
64-1 Dial Features
1. TT or Rotary
2. Rotary Fallback
3. 2300Hz Tones
4. TLM

64-2 Delay Before Dial
64-3 Anti Jam
64-4 AC-Fail Delay

65 Self Test
65-1 Fixed \ Start Time
65-2 Test Signal Options

66 Personal Alarm Call
66-1 Telephone Number
66-2 Tone 1 Assignment
66-3 Tone 2 Assignment
66-4 Report Tone Duration

67 Pager
67-1 Telephone Number
67-2 Message Assignment
67-3 Report Range-Alarm
67-4 Report RangeTrouble
67-5 Report Range- O/C
67-6 Message Header Alm
67-7 Message Header Trbl
67-8 Message Header O/C
67-9 Pager Delay

MENU 6 CHART

61 Receiver 1
1. Telephone Number
2. Account Number
3. Receiver Format
4. Dial Attempts

62 Receiver 2
1. Telephone Number
2. Account Number
3. Receiver Format
4. Dial Attempts

63 Receiver Options
63-1 Alarm Reports
63-2 Open/Close Reports
63-3 System Code Report

64 Dial Features
64-1 Dial Features
1. TT or Rotary
2. Rotary Fallback
3. 2300Hz Tones
4. TLM
64-2 Delay Before Dial
64-3 Anti Jam
64-4 AC-Fail Delay

65 Self Test
65-1 Fixed \ Start Time
65-2 Test Signal Options

66 Personal Alarm Call
66-1 Telephone Number
66-2 Tone 1 Assignment
66-3 Tone 2 Assignment
66-4 Report Tone Duration

67 Pager
67-1 Telephone Number
67-2 Message Assignment
67-3 Report Range-Alarm
67-4 Report Range- Trouble
67-5 Report Range- O/C
67-6 Message Header Alm
67-7 Message Header Trbl
67-8 Message Header O/C
67-9 Pager Delay

63 RECEIVER OPTIONS

63-1 **Alarm Reporting Options**
This option determines the reporting characteristics of the alarm codes. Select one option from the chart below.
Default: 04 **Range: 00-04**

63-2 **Open & Close Reporting Options**
This option determines the reporting characteristics of the open & close codes. Select one option from the chart below.
Default: 04 **Range: 00-04**

63-3 **System Code Reporting Options**
This option determines the reporting characteristics of the system report codes Select one option from the chart below.
Default: 04 **Range: 00-04**

OPTION	SELECTION
00	BOTH RECEIVER OUTPUTS DISABLED
01	RECEIVER 1 ONLY
02	RECEIVER 2 ONLY
03	BOTH RECEIVER 1 & 2
04	RECEIVER 1 WITH RECEIVER 2 AS BACKUP.

64 DIAL FEATURES

THESE FOUR OPTIONS DETERMINE THE OPERATING CHARACTERISTICS OF THE DIGITAL COMMUNICATOR.

64-1 **Dial Features**

1. Touch Tone Dialing
This option determines the method of dialing for the alarm system. On for Touch Tone, Off for Rotary.
Default: On **Range: On (tt) or Off(r)**

2. Fall Back to Rotary
This option allows the communicator to dial in a rotary tones after one unsuccessful touch tone dial attempt.
Default: On **Range: On or Off**

3. 2300Hz Handshake
This option determines the frequency of handshake tones used for PPS Formats.
Default: Off **Range: On (2300Hz) or Off (1400Hz)**

4. Telephone Line Monitor (TLM)
This option allows the panel to monitor the telephone line for loss or cut.
Default: Off **Range: On or Off**

64-2 **Delay Before Dial**
This option gives users time to abort the transmission of an accidental alarm activation. This delay is does not effect Keypad Alarms, Fire Alarms or Duress Signals.
Default: 60 seconds **Range: 00 - 99 seconds**

64-3 **Anti-Jam Time**
This is the time required by the telephone company to disconnect an incoming call and reestablish dial tone.
Default: 00 seconds **Range: 00 - 99 seconds**

64-4 **AC Fail Dial Delay**
Assign a delay period before sending AC Failure Report Code to the central station.
Default: 01 (10 min.) **Range: 00 - 99 x 10 min.**

65 Self Test

These two options determine the operating characteristics for the self test function. (See menu 77-5, Self Test; 77-6, Abnormal Test)

65-1 Fixed Start Time

This option sets the exact time the security system shall transmit the self test report code to the monitoring station. This entry is made in military time (1:00PM = 1300).

Note: *Option 01 must be selected in menu 65-2, Test Option for this option to function.*

Default: 00:00 **Range: 00:00 to 23:59**

65-2 Test Option

This option determines the frequency of the self test option. *(See chart below)*

Default: 00 **Range: 00-02**

#	Option	Description
00	Disabled	Disabled
01	Fixed time daily	The panel will transmit the self test code at the time period programmed in menu 65-1.
02	24Hr after last call	The panel will transmit the self test code 24 hours after the last signal transmission.

66 Personal Alarm Call

These four items allow the system to call the user and alert them of activity at the premise.

66-1 Telephone Number

Select up to sixteen digits or characters the security system will need to dial to report an event. Press the OFF key to delete characters or numbers from the telephone number.

Default: FFFFFFFFFFFFFFFF **Range: 0-9 (16 digit max.)**

66-2 Tone 1 Assignment

Select which of the following types of events will be reported using Tone 1.

1. Alarm Reporting
2. System Reporting
3. Open and Close Reporting

Default: 1 2 **Range: 1 2 3**

Button	Action
A	Scrolls dialing characters backward
B	Scrolls dialing characters forward
C	Advance cursor
D	Reverse cursor
OFF	Clear display

66-3 Tone 2 Assignment

Select which of the following types of events will be reported using Tone 2.

1. Alarm Reporting
2. System Reporting
3. Open and Close Reporting

Default: 3 **Range: 1 2 3**

Dialing Characters
: = 3 Second delay
; = 5 Second delay with Tone Detect Override
* = *
=

66-4 Report Tone Duration

Select the length of the Indication Tones.

Default: 60 seconds **Range: 01-99 seconds**

Menu 6 Chart

61 Receiver 1
1. Telephone Number
2. Account Number
3. Receiver Format
4. Dial Attempts

62 Receiver 2
1. Telephone Number
2. Account Number
3. Receiver Format
4. Dial Attempts

63 Receiver Options
63-1 Alarm Reports
63-2 Open/Close Reports
63-3 System Code Report

64 Dial Features
64-1 Dial Features
1. TT or Rotary
2. Rotary Fallback
3. 2300Hz Tones
4. TLM

64-2 Delay Before Dial
64-3 Anti Jam
64-4 AC-Fail Delay

65 Self Test
65-1 Fixed \ Start Time
65-2 Test Signal Options

66 Personal Alarm Call
66-1 Telephone Number
66-2 Tone 1 Assignment
66-3 Tone 2 Assignment
66-4 Report Tone Duration

67 Pager
67-1 Telephone Number
67-2 Message Assignment
67-3 Report Range-Alarm
67-4 Report Range- Trouble
67-5 Report Range- O/C
67-6 Message Header Alm
67-7 Message Header Trbl
67-8 Message Header O/C
67-9 Pager Delay

MENU 6 CHART

61 Receiver 1
1. Telephone Number
2. Account Number
3. Receiver Format
4. Dial Attempts

62 Receiver 2
1. Telephone Number
2. Account Number
3. Receiver Format
4. Dial Attempts

63 Receiver Options
63-1 Alarm Reports
63-2 Open/Close Reports
63-3 System Code Report

64 Dial Features
64-1 Dial Features
1. TT or Rotary
2. Rotary Fallback
3. 2300Hz Tones
4. TLM

64-2 Delay Before Dial
64-3 Anti Jam
64-4 AC-Fail Delay

65 Self Test
65-1 Fixed \ Start Time
65-2 Test Signal Options

66 Personal Alarm Call
66-1 Telephone Number
66-2 Tone 1 Assignment
66-3 Tone 2 Assignment
66-4 Report Tone Duration

67 Pager
67-1 Telephone Number
67-2 Message Assignment
67-3 Report Range-Alarm
67-4 Report Range- Trouble
67-5 Report Range- O/C
67-6 Message Header Alm
67-7 Message Header Trbl
67-8 Message Header O/C
67-9 Pager Delay

67 PAGER

THESE NINE ITEMS ALLOW THE SYSTEM TO REPORT SYSTEM ACTIVITY TO A PAGER. MOST PAGERS CANNOT DISPLAY HEXADECIMAL CHARACTERS, SO IT IS RECOMMENDED TO LIMIT ALL MESSAGES TO THE RANGE OF 0000 TO 9999.

67-1 Telephone Number

Select up to sixteen digits or characters the security system will dial to report an event to a pager. Press the OFF key to delete characters or numbers from the telephone number.

Default: FFFFFFFFFFFFFFFF Range: 0-9 (16 digit max.)

BUTTON	ACTION
A	SCROLLS DIALING CHARACTERS BACKWARD
B	SCROLLS DIALING CHARACTERS FORWARD
C	ADVANCE CURSOR
D	REVERSE CURSOR
OFF	CLEAR DISPLAY

DIALING CHARACTERS
: = 3 SECOND DELAY
; = 5 SECOND DELAY WITH TONE DETECT OVERRIDE
* = *
=

67-2 Message Assignment

Select which of the following types of events will be reported via pager. The Report Code Range sections shown below are an additional filtering system to control which codes will be transmitted to pager.

1. Alarm Codes
2. System Codes
3. Open and Close Codes

Default: --- Range: 1 2 3

67-3 Report Range of Alarm Codes

This option allows any Alarm/Restore codes to be transmitted to the pager service that are within the selected range below. *(See menu 67-2, Message Assignment)*

Default: 01FF Range: 0000-FFFF

67-4 Report Code Range of System Codes

This option allows any Trouble/Restore codes to be transmitted to the pager service that are within the selected range below. *(See menu 67-2, Message Assignment).*

Default: 01FF Range: 0000-FFFF

67-5 Report Range of Open / Close Codes

This option allows any Open/Close codes to be transmitted to the pager service that are within the selected range below. *(See menu 67-2, Message Assignment)*

Default: 01FF Range: 0000-FFFF

67-6 Message Header for Alarm Codes

This entry displays on the pager immediately prior to the Alarm Report Codes (section 67-3). This field may contain a maximum of four digits.

(See menu 67-2, Message Assignment; 67-3, Report Range of Alarm Codes)

Default: FFFF Range: 0000-FFFF

67-7 Message Header for System Codes

This entry displays on the pager immediately prior to the System Report Codes (67-3). This field may contain a maximum of four digits.

(See menu 67-2, Message Assignment; 67-4, Report Range of Trouble Codes)

Default: FFFF Range: 0000-FFFF

67-8 Message Header for Open \ Close Codes

This entry displays on the pager immediately prior to the Open \ Close Report Codes (67-3). This field may contain a maximum of four digits.

(See menu 67-2, Message Assignment; 67-5, Report Range of Open/Close Codes)

Default: FFFF Range: 0000-FFFF

67-9 Pager Delay

Set the amount of time the system will wait to transmit report codes after dialing the paging service.

Note: It is recommended to contact the paging service for the correct amount of time or send a few test transmissions to ensure the correct amount of time has been entered.

Default: 10 seconds Range: 01-20 seconds

MENU 7 - REPORT CODES

THE FOLLOWING SEVEN MENUS AND THEIR SUB-MENUS DETERMINE THE OPERATION OF THE REPORTING PORTION OF THE ALARM SYSTEM.

71 ZONE REPORT CODES

THESE FOUR SUB-MENUS DETERMINE THE ZONE REPORT CODES OF THE SECURITY SYSTEM.

SELECT ZONE NUMBER

71-Z#-01 **Zone Alarm** ALARM REPORT CODE
Select the Zone Alarm Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

71-Z#-02 **Zone Trouble** ALARM REPORT CODE
Select the Zone Trouble Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

71-Z#-03 **Zone Bypass** SYSTEM REPORT CODE
Select the Zone Bypass Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

71-Z#-04 **Zone Restore** ALARM REPORT CODE
Select the Zone Restore Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

72 KEYPAD ALARM REPORT CODES

THESE THREE SUB-MENUS DETERMINE THE KEYPAD REPORT CODES OF THE SECURITY SYSTEM.

72-1 **Keypad Panic** ALARM REPORT CODE
Select the Keypad Panic Alarm Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

72-2 **Keypad Fire** ALARM REPORT CODE
Select the Keypad Fire Alarm Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

72-3 **Keypad Emergency** ALARM REPORT CODE
Select the Keypad Emergency Alarm Report code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

73 USER ARMING REPORT CODES

THESE TWO SUB-MENUS DETERMINE THE OPEN AND CLOSE REPORT CODES OF THE SECURITY SYSTEM.

SELECT USER NUMBER

73-U#-1 **User Open** OPEN & CLOSE REPORT CODE
Select the User Open Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

73-U#-2 **User Close** OPEN & CLOSE REPORT CODE
Select the User Close Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

MENU 7 CHART

71. Zone Report Codes
71-1 Zone Alarm
71-2 Zone Trouble
71-3 Zone Bypass
71-4 Zone Restore

72. Keypad Report Codes
72-1 Keypad Panic
72-2 Keypad Fire
72-3 Keypad Emergency

73. User Report Codes
73-U#-1 User Open
73-U#-2 User Close

74 Trouble Report Codes (1)
74-1 AC Fail
74-2 AC Restore
74-3 Low Battery
74-4 Battery Restore
74-5 Box Tamper
74-6 Box Tamper Restore
74-7 Bell Fault
74-8 Bell Fault Restore

75 Trouble Report Codes (2)
75-1 Bus Fail
75-2 Bus Fail Restore
75-3 AUX Power Trouble
75-4 AUX Power Restore
75-5 Clock Trouble
75-6 Clock Restore
75-7 Telephone Trouble
75-8 Telephone Restore

76 Trouble Report Codes (3)
76-1 Sensor Tamper Trouble
76-2 Sensor Tamper Rest.
76-3 Communication Fail

77 Misc. Report Codes (1)
77-1 Duress
77-2 Cancel
77-3 Auto Arm
77-4 Fail to Auto Arm
77-5 Self Test
77-6 Abnormal Test
77-7 Recent Close
77-8 Exit Error

78 Misc. Report Codes (2)
78-1 Force Arm
78-2 Remote Arm
78-3 Remote Disarm
78-4 Full Arm
78-5 Partial Arm

79 2 Wire Smoke Report Codes
79-1 2-Wire Smoke Alarm
79-2 2-Wire Smoke Trouble
79-3 2-Wire Smoke Restore

MENU 7 CHART

71. Zone Report Codes
71-1 Zone Alarm
71-2 Zone Trouble
71-3 Zone Bypass
71-4 Zone Restore

72. Keypad Report Codes
72-1 Keypad Panic
72-2 Keypad Fire
72-3 Keypad Emergency

73. User Report Codes
73-U#-1 User Open
73-U#-2 User Close

74 Trouble Report Codes (1)
74-1 AC Fail
74-2 AC Restore
74-3 Low Battery
74-4 Battery Restore
74-5 Box Tamper
74-6 Box Tamper Restore
74-7 Bell Fault
74-8 Bell Fault Restore

75 Trouble Report Codes (2)
75-1 Bus Fail
75-2 Bus Fail Restore
75-3 AUX Power Trouble
75-4 AUX Power Restore
75-5 Clock Trouble
75-6 Clock Restore
75-7 Telephone Trouble
75-8 Telephone Restore

76 Trouble Report Codes (3)
76-1 Sensor Tamper Trouble
76-2 Sensor Tamper Rest.
76-3 Communication Fail

77 Misc. Report Codes (1)
77-1 Duress
77-2 Cancel
77-3 Auto Arm
77-4 Fail to Auto Arm
77-5 Self Test
77-6 Abnormal Test
77-7 Recent Close
77-8 Exit Error

78 Misc. Report Codes (2)
78-1 Force Arm
78-2 Remote Arm
78-3 Remote Disarm
78-4 Full Arm
78-5 Partial Arm

79 2 Wire Smoke Report Codes
79-1 2-Wire Smoke Alarm
79-2 2-Wire Smoke Trouble
79-3 2-Wire Smoke Restore

74 TROUBLE REPORT CODES (1)

THESE EIGHT ITEMS DETERMINE THE SYSTEM TROUBLE REPORT CODES OF THE SECURITY SYSTEM.

74-1 **AC Fail** SYSTEM REPORT CODE
Select the AC Fail Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

74-2 **AC Restore** SYSTEM REPORT CODE
Select the AC Restore Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

74-3 **Battery Trouble** SYSTEM REPORT CODE
Select the Battery Trouble Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

74-4 **Battery Restore** SYSTEM REPORT CODE
Select the Battery Restore Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

74-5 **Box Tamper** SYSTEM REPORT CODE
Select the Box Tamper Report Code to be transmitted to the central station.
(See menu 35-1, PGM 3 Type)
Default: 00 Range: 00-FF Contact ID \ SIA

74-6 **Box Tamper Restore** SYSTEM REPORT CODE
Select the Box Tamper Restore Report Code to be transmitted to the central station.
(See menu 35-1, PGM 3 Type)
Default: 00 Range: 00-FF Contact ID \ SIA

74-7 **Bell Fault Trouble** SYSTEM REPORT CODE
Select the Bell Fault Trouble Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

74-8 **Bell Fault Restore** SYSTEM REPORT CODE
Select the bell fault restore report code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

75 TROUBLE REPORT CODES (2)

THESE FIVE ITEMS ARE A CONTINUATION OF 74 AND DETERMINE THE SYSTEM TROUBLE REPORT CODES OF THE SECURITY SYSTEM.

75-1 **Bus Fail** SYSTEM REPORT CODE
Select the Bus Fault Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

75-2 **Bus Fail Restore** SYSTEM REPORT CODE
Select the Bus Fault Restore Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

75-3 **AUX Power Trouble** SYSTEM REPORT CODE
Select the Auxiliary Power Trouble Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

75-4 **AUX Power Restore** SYSTEM REPORT CODE
Select the Auxiliary Power Restore Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

75 TROUBLE REPORT CODES (2)

75-5 **Clock Trouble** SYSTEM REPORT CODE
Select the Clock Trouble Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

75-6 **Clock Restore** SYSTEM REPORT CODE
Select the Clock Restore Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

75-7 **Telephone Trouble** SYSTEM REPORT CODE
Select the Telephone Trouble Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

75-8 **Telephone Restore** SYSTEM REPORT CODE
Select the Telephone Restore Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

76 TROUBLE REPORT CODES (3)

THESE FIVE ITEMS ARE A CONTINUATION OF 74 AND DETERMINE TROUBLE REPORT CODES OF THE SECURITY SYSTEM

76-1 **Sensor Tamper Trouble (PGM-IN)** SYSTEM REPORT CODE
Select the Sensor Tamper Loop Trouble Report Code to be transmitted to the central station.
(See menu 35-1, PGM 3 Type)
Default: 00 Range: 00-FF Contact ID \ SIA

76-2 **Sensor Tamper Restore (PGM-IN)** SYSTEM REPORT CODE
Select the Sensor Tamper Loop Restore Report Code to be transmitted to the central station.
(See menu 35-1, PGM 3 Type)
Default: 00 Range: 00-FF Contact ID \ SIA

76-3 **Communication Fail** SYSTEM REPORT CODE
Select the Communication Failure Report Code to be transmitted via radio or Receiver 2.
Default: 00 Range: 00-FF Contact ID \ SIA

77 MISCELLANEOUS REPORT CODES (1)

THESE SIX ITEMS DETERMINE MISCELLANEOUS REPORT CODES OF THE SECURITY SYSTEM.

77-1 **Duress** ALARM REPORT CODE
Select the Duress Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

77-2 **Cancel** OPEN & CLOSE REPORT CODE
Select the Cancel Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

77-3 **Auto-Arm** OPEN & CLOSE REPORT CODE
Select the auto arm report code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

77-4 **Fail to Auto-Arm** OPEN & CLOSE REPORT CODE
Select the Fail to Auto-Arm Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

77-5 **Self-Test** OPEN & CLOSE REPORT CODE
Select the Self-Test Report Code to be transmitted to the central station.
Default: 00 Range: 00-FF Contact ID \ SIA

MENU 7 CHART

71. Zone Report Codes
71-1 Zone Alarm
71-2 Zone Trouble
71-3 Zone Bypass
71-4 Zone Restore

72. Keypad Report Codes
72-1 Keypad Panic
72-2 Keypad Fire
72-3 Keypad Emergency

73. User Report Codes
73-U#-1 User Open
73-U#-2 User Close

74 Trouble Report Codes (1)
74-1 AC Fail
74-2 AC Restore
74-3 Low Battery
74-4 Battery Restore
74-5 Box Tamper
74-6 Box Tamper Restore
74-7 Bell Fault
74-8 Bell Fault Restore

75 Trouble Report Codes (2)
75-1 Bus Fail
75-2 Bus Fail Restore
75-3 AUX Power Trouble
75-4 AUX Power Restore
75-5 Clock Trouble
75-6 Clock Restore
75-7 Telephone Trouble
75-8 Telephone Restore

76 Trouble Report Codes (3)
76-1 Sensor Tamper Trouble
76-2 Sensor Tamper Rest.
76-3 Communication Fail

77 Misc. Report Codes (1)
77-1 Duress
77-2 Cancel
77-3 Auto Arm
77-4 Fail to Auto Arm
77-5 Self Test
77-6 Abnormal Test
77-7 Recent Close
77-8 Exit Error

78 Misc. Report Codes (2)
78-1 Force Arm
78-2 Remote Arm
78-3 Remote Disarm
78-4 Full Arm
78-5 Partial Arm

79 2 Wire Smoke Report Codes
79-1 2-Wire Smoke Alarm
79-2 2-Wire Smoke Trouble
79-3 2-Wire Smoke Restore

MENU 7 CHART

71. Zone Report Codes
71-1 Zone Alarm
71-2 Zone Trouble
71-3 Zone Bypass
71-4 Zone Restore

72. Keypad Report Codes
72-1 Keypad Panic
72-2 Keypad Fire
72-3 Keypad Emergency

73. User Report Codes
73-U#-1 User Open
73-U#-2 User Close

74 Trouble Report Codes (1)
74-1 AC Fail
74-2 AC Restore
74-3 Low Battery
74-4 Battery Restore
74-5 Box Tamper
74-6 Box Tamper Restore
74-7 Bell Fault
74-8 Bell Fault Restore

75 Trouble Report Codes (2)
75-1 Bus Fail
75-2 Bus Fail Restore
75-3 AUX Power Trouble
75-4 AUX Power Restore
75-5 Clock Trouble
75-6 Clock Restore
75-7 Telephone Trouble
75-8 Telephone Restore

76 Trouble Report Codes (3)
76-1 Sensor Tamper Trouble
76-2 Sensor Tamper Rest.
76-3 Communication Fail

77 Misc. Report Codes (1)
77-1 Duress
77-2 Cancel
77-3 Auto Arm
77-4 Fail to Auto Arm
77-5 Self Test
77-6 Abnormal Test
77-7 Recent Close
77-8 Exit Error

78 Misc. Report Codes (2)
78-1 Force Arm
78-2 Remote Arm
78-3 Remote Disarm
78-4 Full Arm
78-5 Partial Arm

79 2 Wire Smoke Report Codes
79-1 2-Wire Smoke Alarm
79-2 2-Wire Smoke Trouble
79-3 2-Wire Smoke Restore

77 MISCELLANEOUS REPORT CODES

77-6 Abnormal Test Code — SYSTEM REPORT CODE
Select the Abnormal Self-Test Report Code to be transmitted to the central station.
Default: 00 **Range: 00-FF Contact ID \ SIA**

77-7 Recent Close — OPEN & CLOSE REPORT CODE
Select the Recent Close Report Code to be transmitted to the central station.
Default: 00 **Range: 00-FF Contact ID \ SIA**

77-8 Exit Error — OPEN & CLOSE REPORT CODE
Select the Exit Error Report Code to be transmitted to the central station.
Default: 00 **Range: 00-FF Contact ID \ SIA**

78 MISCELLANEOUS REPORT CODES

THESE FIVE ITEMS DETERMINE MISCELLANEOUS REPORT CODES OF THE SECURITY SYSTEM.

78-1 Force- Arm — OPEN & CLOSE REPORT CODE
Select the Force-Arm Report Code to be transmitted to the central station.
Default: 00 **Range: 00-FF Contact ID \ SIA**

78-2 Remote Arm (by RPU) — OPEN & CLOSE REPORT CODE
Select the Remote Arming Report Code to be transmitted to the central station.
Default: 00 **Range: 00-FF Contact ID \ SIA**

78-3 Remote Disarm (by RPU) — OPEN & CLOSE REPORT CODE
Select the Remote Disarming Report Code to be transmitted to the central station.
Default: 00 **Range: 00-FF Contact ID \ SIA**

78-4 Fully Armed — OPEN & CLOSE REPORT CODE
Select the Fully Armed Report Code to be transmitted to the central station when the alarm system is fully armed. This reporting option can be used with all arming modes.
Default: 00 **Range: 00-FF Contact ID \ SIA**

78-5 Partial Arm — OPEN & CLOSE REPORT CODE
Select the Partial Arm Report Code to be transmitted to the central station when a portion of the security system armed. This reporting option is used with all arming modes.
Default: 00 **Range: 00-FF Contact ID \ SIA**

79 2-WIRE SMOKE REPORT CODES

THESE THREE ITEMS DETERMINE THE 2-WIRE SMOKE DETECTOR REPORT CODES FOR THE SECURITY SYSTEM.

79-1 2-Wire Smoke Alarm — ALARM REPORT CODE
Select the 2-Wire Smoke Alarm Report Code to be transmitted to the central station.
Default: 00 **Range: 00-FF Contact ID \ SIA**

79-2 2-Wire Smoke Trouble — ALARM REPORT CODE
Select the 2-Wire Smoke Trouble Report Code to be transmitted to the central station.
Default: 00 **Range: 00-FF Contact ID \ SIA**

79-3 2-Wire Smoke Restore — ALARM REPORT CODE
Select the 2-Wire Smoke Restore Report Code to be transmitted to the central station.
Default: 00 **Range: 00-FF Contact ID \ SIA**

MENU 8 - DOWNLOAD (RPU)

81 DOWNLOAD (RPU)

THESE SIX ITEMS DETERMINE THE CHARACTERISTICS OF THE ALARM SYSTEM'S DOWNLOADING FUNCTIONS.

NOTE: If an alarm occurs while the control panel is connected to the RPU the alarm will not be reported until the RPU session is terminated and the phone line is restored.

81-1 RPU Telephone Number

Enter up to sixteen digits or characters the alarm system will need to dial in order to reach the RPU computer to begin a download session. Press the OFF key to delete characters or numbers from the telephone number. *See chart below for characters*

Default: FFFFFFFFFFFFFFFF Range: 0-9 (16 digit max.)

BUTTON	ACTION
A	SCROLLS DIALING CHARACTERS FORWARD
B	SCROLLS DIALING CHARACTERS FORWARD
C	ADVANCE CURSOR
D	REVERSE CURSOR
OFF	CLEAR DISPLAY

DIALING CHARACTERS
: = 3 SECOND DELAY
; = 7 SECOND DELAY
* = *
=

81-2 Panel Access ID

The Panel Access ID of the RPU computer must match this number to receive authorization to conduct a remote programming session.

Default: FFFF Range: 0000-FFFF

81-3 Local Download PIN

A User at the premise enters this PIN number to initiate a download session with the remote computer.

Default: FFFF Range: 0000-9999

81-4 RPU Features

Default: - - Range: 1 2

1. Double Call

This option enables remote downloading sessions to be initiated by the Double Call method. To initiate a session using this system call the security system's telephone line and disconnect before the second ring, call back within the time period programmed in menu 81-6 and the security system will seize the line to commence a downloading session.
(See menu 81-6, Double Call Wait Time)

2. Security Call Back

This option adds security for communication between the panel and RPU computer. When the RPU computer connects with the panel, the panel will hang up and dial the RPU computer's telephone number (programed in menu 81-1, RPU Telephone Number).

81-5 Number of Rings for Pick-Up

Specify the number of rings the security system will wait before picking-up the telephone line to initiate a downloading session.

Default: 12 Range: 01-99

81-6 Double Call Wait Time

This option sets a time window for the panel to wait for the second call of the Double Call process. If the second call is not received within this amount of time after the initial (single ring) call, the panel will stop waiting for the second call Double Call and revert to normal status.
(See menu 81-4, 1.Double Call)

Default: 60 seconds Range: 00-99 seconds

MENU 8 CHART

81 Download (RPU)
81-1 Telephone Number
81-2 Panel Access ID
81-3 Local RPU PIN
81-4 RPU Features
1. Double Call
2. Call Back
81-5 Number of Rings
81-6 Double Call Wait Time

GLOSSARY

2300Hz / 1400Hz	There are two tones that are emitted from central station receivers, known as Handshake and Kiss-off. These tones are 2300Hz or 1400Hz and inform the communicator that the central station receiver is available to accept the digital information (Handshake) and that the information has been received and please shutdown (Kiss-off).
Abnormal Test Code	This report code is transmitted instead of the normal self test code if a Fire Zone remains in a non-secure condition.
AC Cycles	This determines the accuracy of the time clock. It must be set for 60Hz for the USA.
Anti-Jam Time	This is the amount of time the telephone company requires to recognize the completion of a phone call and to reestablish dial tone for the next phone call.
Auto-Arm	This allows the security system to arm itself at a preprogrammed time each day.
Auto-Chime on Disarm	This allows the chime function of the security system to automatically activate upon disarming.
Automatic Bell Test	This activates the bell circuit for app. two seconds upon arming the security system.
Bus	This is a data circuit which allows the installation and supervision of the keypads.
Call Back	This is a security feature of the RPU that inhibits unauthorized access of the alarm system via a remote computer.
Chime Option	This option allows keypad annunciation of access to specified areas while the security system is disarmed.
Clock	The System Clock works in conjunction with Auto-Arm, History Log, and the Communication Test features.
Default Installer Program	This option allows all programming to be reset to factory default settings.
Default Installer's PIN	The original factory setting of the PIN number used to access programming (9999).
Delay Before Dial	This is a SIA False Alarm Reduction Option which allows users the ability to cancel the transmission of inadvertent alarm signals.
Dial Attempts	This is the number of attempts the security system will try to communicate with central station.
Double Call Feature	This option requires two calls from the host computer to initiate a downloading session. The first call signals the security system that the host computer is attempting to establish communications. The security system will answer the next phone call if it is received within the programmed window (Double Call Wait Time).
Duress PIN	This option disarms the security system and sends a signal to central station alerting them that the user is being forced to disarm.
Entry Delay	This period of time allows the user to enter the premise and disarm the security system without activating an alarm condition.
Entry Follower	This Zone Type allows users to enter an area in order to disarm the security system. If the Entry Follower Zone is violated after an Entry Delay Zone, it will follow the entry delay and not create an instant alarm. However, if it is violated before an Entry Delay Zone, the Entry Follower Zone will create an instant alarm.
Exit Delay	This period of time allows users to exit the premise after arming the security system without activating an alarm condition.

FORCE ARM	This option allows the security system to be armed even if a zone is in a non-secure condition and cannot be secured at time of arming. If the zone restores during the armed period, it will become armed with the rest of the system.
HISTORY	A chronological log of events that will be stored and/or printed.
IGNORE DURING DELAY	This option allows users to arm the system with the specified zone in a non-secure condition. If this zone is not secured when the system arms, an alarm condition will occur.
INSTALLER PIN	This code is required to access programming functions pertaining to the operational features of the alarm system.
KEYPAD ALARMS	These alarms are activated by pressing keys at any keypad.
LOOP RESPONSE	This determines the length of time the zone must remain non-secure for the security system to recognize an alarm activation.
LOOP TYPE	This determines the type of EOL configuration the zone will require.
NIGHT BYPASS	This options allows the specified zone to be automatically removed from the security system when the Night Button (D Key) is used to arm the system.
PAGER CALL	This option allows the security system to call a pager to report an alarm condition, opening or closing, or system trouble.
PERSONAL ALARM CALL	This option allows the security system to make a telephone call and use warning tones to report an alarm condition, opening or closing, or system trouble.
PIN	Personal Identification Number (PIN) is required for performing functions such as arming, disarming, or assigning PINs. All PINs are assigned an authority level (1-4) which defines the activities accessible to the user.
PGM	This is a low current transistor output that sinks to ground when activated to provide 50ma current. PGM's are programmable and may be used for a variety of options.
QUICK EXIT	Bypasses all zones for two minutes to allow a user to exit the premises while the security system is armed (without entering the PIN to disarm and rearm).
RECEIVER	A device located at the central station that deciphers information sent by the security system's digital communicator.
RECENT CLOSE	An optional report code to inform central station that the current alarm occurred within 2 minutes of the expiration of the exit delay time.
REPORT CODE	A digital code that is sent to central station to alert them of activity at the security system.
RPU (REMOTE PROGRAMMING UTILITY)	Remote Programming Utility is the software which is used to download (or upload) programming information or operational commands to the security system.
SWINGER SHUTDOWN	This option allows zones to be shunted (bell and communicator) automatically during the armed period after one alarm has been generated.
TEMPLATE	A preestablished format for loading information into the security system which saves time by eliminating repetitive data entry.
TLM	A circuit that monitors the telephone line connected to the alarm system.
WALK TEST	A procedure for testing the proper operation of the security system.
ZONE	An individual circuit of the security system. It connects the alarm output from protection device(s) to the security system to process alarm and trouble conditions (if programmed).

APPENDIX A

To reset Smoke Detectors, press (↑) & *2 (Reset Key).*
SMOKE DETECTOR PLACEMENT - Reprinted from NFPA Standard 74

A-2 Smoke Detection.
A-2.1 Where to Locate the Required Smoke Detectors.

A-2.1.1

The major threat from fire in a family living unit is at night when everyone is asleep. The principal threat to persons in sleeping areas comes from fires in the remainder of the unit; therefore, smoke detector(s) are best located between the bedroom areas and the rest of the unit. In units with only one bedroom area on one floor, the smoke detector should be located as shown in figure A-2.1.1.

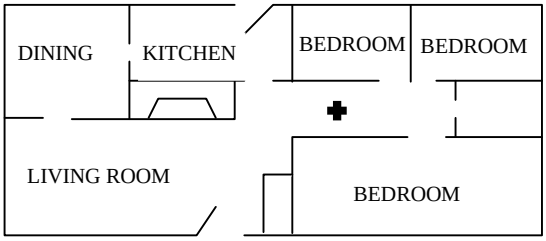


Figure A-2.1.1
A smoke detector (indicated by cross) should be located between the sleeping area and the rest of the family living unit.

A-2.1.2 In family living units with more than one bedroom area or with bedrooms on more than one floor, more than one smoke detector will be needed, as shown in Figure A-2.1.2

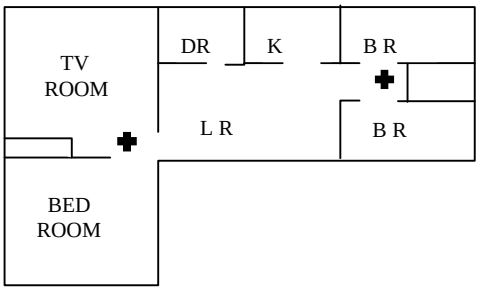


Figure A-2.1.2
In family living units with more than one sleeping area, a smoke detector (indicated by cross) should be provided to protect each.

A-2.1.3 In addition to smoke detectors outside of the sleeping areas, this standard requires the installation of a smoke detector on each additional story of the family living unit, including the basement. These installations are shown in Figure A-2.1.3. The living area smoke detector should be installed in the living room and/or near the stairway to the upper level. The basement smoke detector should be installed in close proximity to the stairway leading to the floor above. If installed on an open-jousted ceiling, the detector should be placed on the bottom of the jousts. The detector should be positioned relative to the stairway so as to intercept smoke coming from a fire in the basement before the smoke enters the stairway.

APPENDIX A (CONTINUED)

A-2.2 Are More Smoke Detectors Desirable?

The location of the required smoke detectors does not provide adequate protection for the occupants from a fire starting within their bedrooms, nor do the required smoke detectors provide reliable early warning protection for those areas separated by a door from the areas protected by the required smoke detectors. For these reasons, it is recommended that the householder consider the use of additional smoke detectors for those areas for increased protection. The additional areas include: basement, bedrooms, dinning room, furnace room, utility room, and hallways not protected by required smoke detectors. The installation of smoke detectors in kitchens, attics (finished or unfinished), or in garages is not normally recommended as these locations occasionally experience conditions which may result in improper operation.

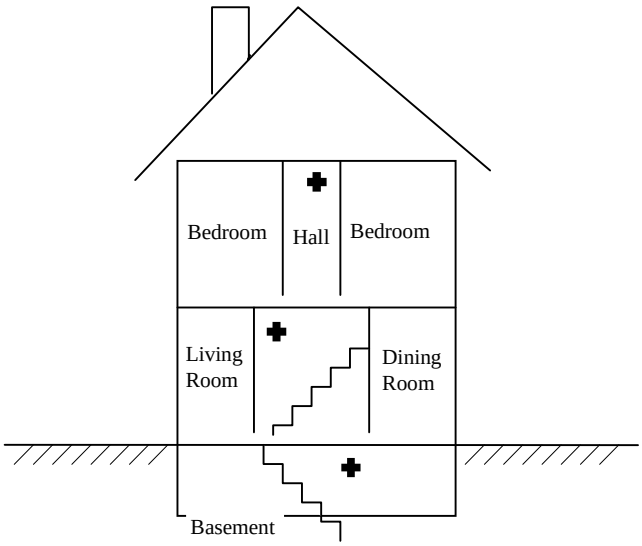


Figure A-2.2.1
A smoke detector (indicated by cross) should be located on each story.

A-2.3 Smoke Detector Mounting - "Dead" Air Space.

A-2.3.1 The smoke from a fire generally rises to the ceiling, spreads out across the ceiling surface and begin to bank down from the ceiling. The corner where the ceiling and wall meet is an air space into which the smoke may have difficulty penetrating. In most fires, this "dead" air space measures about 4 in. (0.1m) along the ceiling from the corner and about 4 in. (0.1m) down the wall as shown in Figure A-3.2.1. Detectors should not be placed in this "dead" air space.

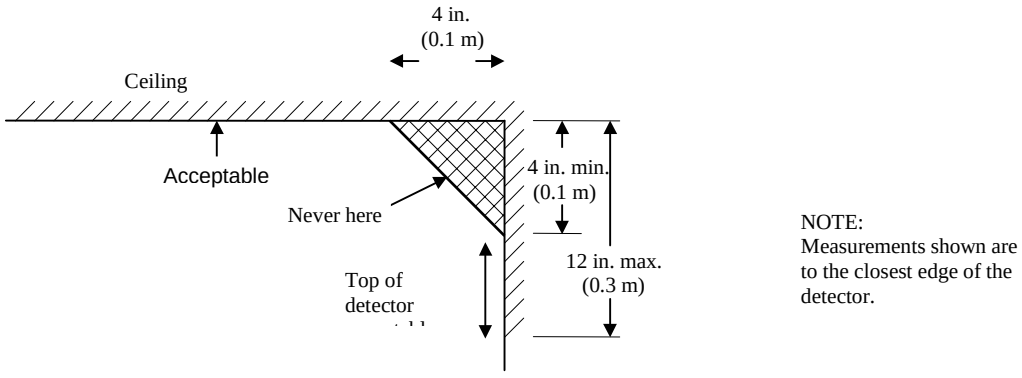


Figure A-2.3.1 Example of proper mounting for detectors.

VISION V-CP1 CONTROL PANEL

Ordering Information

English

V-CP1 LEDPK
PACKAGE INCLUDES CONTROL PANEL (IN CABINET), V-LED1 KEYPAD AND ACCESSORIES.

V-CP1 LCDPK
PACKAGE INCLUDES CONTROL PANEL (IN CABINET) V-LCD1 KEYPAD AND ACCESSORIES

V-CP1 PCB
PCB ONLY W/ MANUALS

V-LED1
LED KEYPAD W/ USER MANUAL

V-LCD1
LCD KEYPAD W/ USER MANUAL

SPANISH

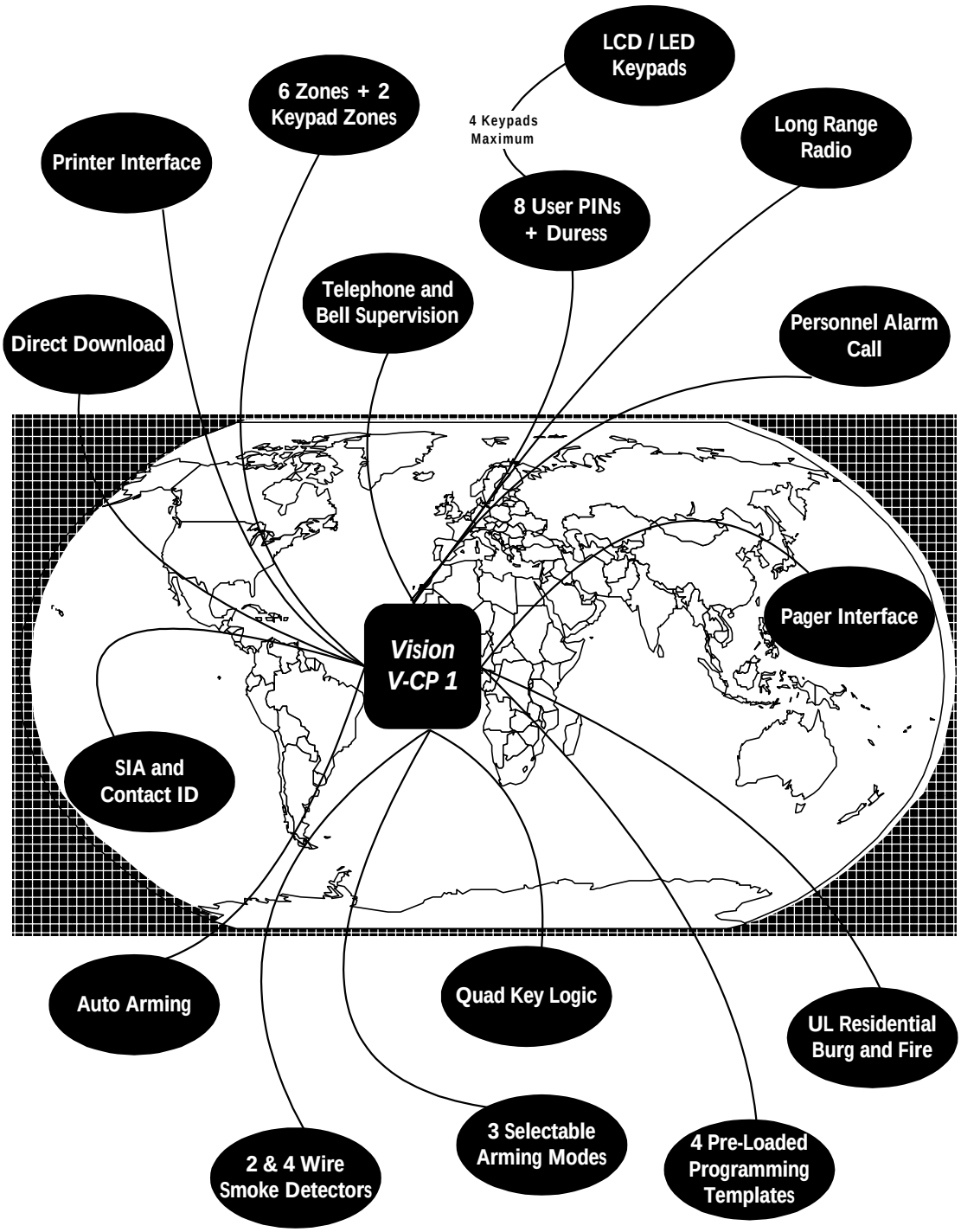
V-CP1 LEDPK(S)
SPANISH PACKAGE INCLUDES CONTROL PANEL (IN CABINET), V-LED1 KEYPAD AND ACCESSORIES.

V-CP1 LCDPK(S)
SPANISH PACKAGE INCLUDES CONTROL PANEL (IN CABINET) V-LCD1 KEYPAD AND ACCESSORIES

V-CP1 PCB(S)
PCB ONLY W/SPANISH MANUALS

V-LED1(S)
SPANISH LED KEYPAD(S) W/SPANISH MANUALS

V-LCD1(S)
SPANISH LCD KEYPAD(S) W/SPANISH MANUALS



OPTEX CO.,LTD. (ISO 9001 Certified by LRQA)
4-7-5 Nionohama Otsu 520-0801 Japan
TEL (077)524-6047 FAX (077)522-9022

OPTEX INCORPORATED
1845W. 205th Street Torrance, CA 90501-1510 U.S.A
TEL (310)533-1500 FAX (310)533-5910

OPTEX(EUROPE) LTD. (ISO 9002 Certified by NQA)
Clivemont Road Cordwallis Park Maidenhead Berkshire SL6 7BU U.K.
TEL (01628)631000 FAX (01628)636311

3440-0275 Rev B