Keypad Programming

[000]   Keypad Enrollment (Section 2.5 "Keypad Assignment" on page 4)

NOTE: This must be done at each keypad requiring programming.

[0] Slot [Valid entries are 11-18; i.e. enter [11] for slot 1, [12] for slot 2, etc.]
[1] Function Key 1 Assignment (Valid entries are 00-17)
[2] Function Key 2 Assignment (Valid entries are 00-17)
[3] Function Key 3 Assignment (Valid entries are 00-17)
[4] Function Key 4 Assignment (Valid entries are 00-17)
[5] Function Key 5 Assignment (Valid entries are 00-17)

Function Key Options:

00 Null Key	**08** [*][1] Bypass Mode	**16** [*][0] Quick Exit
01 For future use	**09** [*][2] Trouble Display	**17** [*][1] Reactivate Stay/Away's
02 For future use	**10** [*][3] Alarm Memory	**18** For future use
03 Stay Arm	**11** [*][5] User Programming	**19** For future use
04 Away Arm	**12** [*][6] User Functions	**20** For future use
05 [*][9] No-Entry Arm	**13** Command Output #1 [*][7][1]	**21** For future use
06 [*][4] Chime On / Off	**14** Command Output #2 [*][7][2]	
07 [*][6][——][4] System Test	**15** For future use	

	Slot	Function Key 1	Function Key 2	Function Key 3	Function Key 4	Function Key 5
LED Defaults	11	03	04	06	14	16
LCD Defaults	18	03	04	06	14	16
KEYPAD 1	|___|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
KEYPAD 2	|___|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
KEYPAD 3	|___|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
KEYPAD 4	|___|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
KEYPAD 5	|___|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
KEYPAD 6	|___|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
KEYPAD 7	|___|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
KEYPAD 8	|___|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|

Basic Programming

Zone Definitions

00 Null Zone (Not Used)	**10** 24 Hour Supervisory Buzzer	**20** 24 Hour Freeze
01 Delay 1	**11** 24 Hour Burglary	**21** 24 Hour Latching Tamper
02 Delay 2	**12** 24 Hour Holdup	**22** Momentary Keyswitch Arm
03 Instant	**13** 24 Hour Gas	**23** Maintained Keyswitch Arm
04 Interior	**14** 24 Hour Heating (N/C zone)	**24** LINKS Answer
05 Interior, Stay/Away	**15** 24 Hour Medical	**25** Interior Delay
06 Delay, Stay/Away	**16** 24 Hour Panic	**87** Delay 24 Hour Fire (Wireless)
07 Delayed 24 Hour Fire (Hardwired)	**17** 24 Hour Emergency	**88** Standard 24 Hour Fire (Wireless)
08 Standard 24 Hour Fire (Hardwired)	**18** 24 Hour Sprinkler	
09 24 Hour Supervisory	**19** 24 Hour Water	

NOTE:Keypads must be installed to use 24-hour Buzzer zones.

NOTE:Keypad zones are assigned in section [020]. Zone Attributes are assigned in sections [101] - [132]. Zone assignment is in sections [202] - [205].

[001] Zone 1-8 Definitions (Section 5.2 "Zone Programming" on page 15)

Default			Default		
01	|___|___|	Zone 1	00	|___|___|	Zone 5
03	|___|___|	Zone 2	00	|___|___|	Zone 6
04	|___|___|	Zone 3	00	|___|___|	Zone 7
04	|___|___|	Zone 4	00	|___|___|	Zone 8

[002] Zone 9-16 Definitions (Section 5.2 "Zone Programming" on page 15)
Default **Default**
00 |___|___| Zone 9   00 |___|___| Zone 13

00 |___|___| Zone 10   00 |___|___| Zone 14

00 |___|___| Zone 11   00 |___|___| Zone 15

00 |___|___| Zone 12   00 |___|___| Zone 16

[003] Zone 17-24 Definitions (Section 5.2 "Zone Programming" on page 15)
Default **Default**
00 |___|___| Zone 17   00 |___|___| Zone 21

00 |___|___| Zone 18   00 |___|___| Zone 22

00 |___|___| Zone 19   00 |___|___| Zone 23

00 |___|___| Zone 20   00 |___|___| Zone 24

[004] Zone 25-32 Definitions (Section 5.2 "Zone Programming" on page 15)
Default **Default**
00 |___|___| Zone 25   00 |___|___| Zone 29

00 |___|___| Zone 26   00 |___|___| Zone 30

00 |___|___| Zone 27   00 |___|___| Zone 31

00 |___|___| Zone28   00 |___|___| Zone 32

[005] System Times
Default **Valid entries: [001-255]**
030 |___|___|___| Entry Delay 1 (in seconds)(Section 5.18 "Entry/Exit Delay Options" on page 24)

045 |___|___|___| Entry Delay 2 (in seconds)(Section 5.18 "Entry/Exit Delay Options" on page 24)

120 |___|___|___| Exit Delay (in seconds)(Section 5.18 "Entry/Exit Delay Options" on page 24)

004 |___|___|___| Bell Cut-off (in minutes)(Section 5.13 "Bell" on page 22)

[006] Installer's Code (Section 4.1 "Installer's Programming" on page 13)
Default
5555 |___|___|___|___|

[007] Master Code (Section 5.1 "Programming Security Codes" on page 15)
Default
1234 |___|___|___|___|

[008] Maintenance Code (Section 5.1 "Programming Security Codes" on page 15)
Default
AAAA |___|___|___|___|

[009] PGM Output Programming (PGM 1 and 2) (Section 5.11 "PGM Output Options" on page 20)
Programmable Output Options

01	Burglary and Fire Bell Output	**14**	Ground Start Pulse
02	For future use	**15**	Remote Operation (DLS-1 Support)
03	Sensor Reset	**16**	LINKS1000 Support (PGM1 only)
04	For future use	**17**	Away Armed Status
05	System Armed Status	**18**	Stay Armed Status
06	Ready To Arm	**19**	Command Output #1 ([*][7][1])
07	Keypad Buzzer Follow Mode	**20**	Command Output #2 ([*][7][2])
08	Courtesy Pulse	**21**	For future use
09	System Trouble Output (with Trouble options)	**22**	For future use
10	System Event [Strobe (with Event options)]	**23**	For future use
11	System Tamper (all sources: zones, kpd, modules)	**24**	For future use
12	TLM and Alarm		
13	Kissoff Output		

NOTE:Output types [03] and [20] cannot be used together on the same system.

Default **Default**
19 |___|___| PGM 1   10 |___|___| PGM 2   ***Program PGM Option Attributes in sections [141] & [142].***

[012] Keypad Lockout Options (Section 5.21 "Keypad Lockout Options" on page 24)

NOTE: *If Keypad Lockout is active, the panel cannot be disarmed with a keyswitch.*

Default

000 |___|___|___| Number of Invalid Codes Before Lockout (001-255 codes)

000 |___|___|___| Lockout Duration (001-255 minutes)

[013] First System Option Code

Default	Option	ON	Off	Section	Page #
OFF	|___| 1	Normally Closed Loops	End-of-Line Resistors	2.8	5
OFF	|___| 2	Double End-of-Line Resistors	Single End-of-Line Resistors	2.8	5
ON*	|___| 3	Panel shows all troubles when armed	Panel shows only Fire troubles when armed	3.4	8
OFF	|___| 4	Tampers/Faults do not show as open	Tampers/Faults show as open	3.4	8
OFF	|___| 5	For future use			
ON	|___| 6	Audible Exit Fault Enabled	Audible Exit Fault Disabled	5.18	24
ON	|___| 7	Event Buffer Follows Swinger Shutdown	Event Buffer Logs Events Past shutdown	5.20	24
OFF	|___| 8	Temporal Three Fire Signal Enabled**	Standard Pulsed Fire Signal	5.13	22

* Option 3 must be OFF if LCD keypads older than v2.0 are used.
**The Temporal Three Fire Signal option must be used for UL Household Fire installations.

[014] Second System Option Code

Default	Option	ON	Off	Section	Page #
OFF	|___| 1	Arm / Disarm Bell Squawk enabled	Arm / Disarm Bell Squawk disabled	5.17	23
OFF	|___| 2	Bell Squawk During Auto Arm	No Bell Squawk During Auto Arm	5.18	24
OFF	|___| 3	Bell Squawk On Exit Delay	No Bell Squawk On Exit Delay	5.18	24
OFF	|___| 4	Bell Squawk On Entry Delay	No Bell Squawk On Entry Delay	5.18	24
OFF	|___| 5	Bell Squawk On Trouble	No Bell Squawk On Trouble	3.4	8
ON	|___| 6	Audible Exit with Urgency	Silent Exit Delay	5.18	24
OFF	|___| 7	Exit Delay Termination Enabled	Exit Delay Termination Disabled	5.18	24
OFF	|___| 8	Fire Bell is Continuous	Fire Bell Follows Bell Cut-off	5.13	22

[015] Third System Option Code

Default	Option	ON	Off	Section	Page #
ON	|___| 1	Fire Keys Enabled	Fire Keys Disabled	5.16	23
OFF	|___| 2	Panic Keys Audible (Bell / Beeps)	Panic Keys Silent	5.16	23
OFF	|___| 3	Quick Exit Enabled	Quick Exit Disabled	3.4	8
ON*	|___| 4	Quick Arming Enabled	Quick Arming Dis. / Function keys Req. Code	3.4	8
OFF	|___| 5	Code Required For Bypassing	No Code Required	3.4	8
OFF	|___| 6	Master Code Not Changeable	Master Code Changeable	5.1	15
ON	|___| 7	TLM Enabled	TLM Disabled	5.12	22
OFF	|___| 8	TLM Audible (Bell) When Armed	TLM Trouble Beeps When Armed	5.12	22

* When using a PC5132 version 2.1 or older with WLS909 Wireless Keys, option [4] must be ON for the Arm button to work.

[016] Fourth System Option Code

Default	Option	ON	Off	Section	Page #
ON	|___| 1	AC Trouble Displayed	AC Trouble Not Displayed	3.4	8
OFF	|___| 2	Trouble Light Flashes if AC Fails	Trouble Light Does Not Follow AC Status	3.4	8
OFF	|___| 3	Blank Keypad When Not Used	Keypad Active Always	5.22	24
OFF	|___| 4	Code Required to Remove Kypd Blanking	No Code Required	5.22	24
ON	|___| 5	Keypad Backlighting is enabled	Keypad Backlighting is disabled	5.23	25
OFF	|___| 6	Power Save Mode enabled	Power Save Mode disabled	5.22	24
OFF	|___| 7	Bypass Status Displayed While Armed	Bypass Status Not Displayed While Armed	5.17	23
OFF	|___| 8	Keypad Tampers enabled	Keypad Tampers disabled	5.25	25

[017] Fifth System Option Code

Default		Option	ON	Off	Section	Page #
ON	⌊_⌋	1	WLS Key Does Not Use Access Codes*	WLS Key Uses Access Codes	5.17	23
OFF	⌊_⌋	2-7	For future use			
OFF	⌊_⌋	8	Squawk on Away Arming/Disarming Only	Bell Squawk on all Arming/Disarming	5.17	23

This option must be enabled when using a PC5132 v2.1 or earlier.

[020] Keypad Zone Assignments (Section 2.11 "Keypad Zones" on page 6)

NOTE: *Only one keypad may be assigned to a zone.*

Default

00	⌊__⌊__⌋	Keypad (slot 1) Zone	Valid entries are zones 01-08
00	⌊__⌊__⌋	Keypad (slot 2) Zone	Valid entries are zones 01-08
00	⌊__⌊__⌋	Keypad (slot 3) Zone	Valid entries are zones 01-08
00	⌊__⌊__⌋	Keypad (slot 4) Zone	Valid entries are zones 01-08
00	⌊__⌊__⌋	Keypad (slot 5) Zone	Valid entries are zones 01-08
00	⌊__⌊__⌋	Keypad (slot 6) Zone	Valid entries are zones 01-08
00	⌊__⌊__⌋	Keypad (slot 7) Zone	Valid entries are zones 01-08
00	⌊__⌊__⌋	Keypad (slot 8) Zone	Valid entries are zones 01-08

[030] Zone Loop Response Options

Default		Option	ON	Off	Section	Page #
OFF	⌊_⌋	1	Zone 1 is Fast Loop Response	Zone 1 is Normal Loop Response	5.24	25
OFF	⌊_⌋	2	Zone 2 is Fast Loop Response	Zone 2 is Normal Loop Response	5.24	25
OFF	⌊_⌋	3	Zone 3 is Fast Loop Response	Zone 3 is Normal Loop Response	5.24	25
OFF	⌊_⌋	4	Zone 4 is Fast Loop Response	Zone 4 is Normal Loop Response	5.24	25
OFF	⌊_⌋	5-8	For future use			

Advanced System Programming

Zone Attributes (Section 5.3 "Zone Attributes" on page 16)
Zone Attribute Defaults (Y = Option ON; N = Option OFF):

Attribute:		1	2	3	4	5	6	7	8
	ON	Audible	Steady	Chime	Bypass	Force*	Swing	Tx. Delay	Wireless Zn.
	OFF	Silent	Pulsed	No	No	No	No	No	No
Zone Type:									
00 Null Zone		N	N	N	N	N	N	N	N
01 Delay 1		Y	Y	Y	Y	N	Y	N	N
02 Delay 2		Y	Y	Y	Y	N	Y	N	N
03 Instant		Y	Y	Y	Y	N	Y	N	N
04 Interior		Y	Y	N	Y	N	Y	N	N
05 Int. Stay/Away		Y	Y	N	Y	Y	Y	N	N
06 Dly. Stay/Away		Y	Y	N	Y	Y	Y	N	N
07 Dly. 24hr Fire (Hardw.)		Y	N	N	N	N	N	N	N
08 Stand. 24hr Fire (Hardw.)		Y	N	N	N	N	N	N	N
09 24hr Superv.		N	Y	N	N	Y	N	N	N
10 24hr Superv. Buzzer		N	Y	N	Y	N	N	N	N
11 24hr Burglary		Y	Y	N	Y	N	N	N	N
12 24hr Holdup		N	Y	N	N	N	N	N	N
13 24hr Gas		Y	N	N	N	N	N	N	N
14 24hr Heating (N/C zone)		Y	N	N	N	N	N	N	N
15 24hr Medical		Y	Y	N	N	N	N	N	N
16 24hr Panic		Y	Y	N	N	N	N	N	N
17 24hr Emergency		Y	Y	N	N	N	N	N	N
18 24hr Sprinkler		Y	Y	N	N	N	N	N	N
19 24hr Water		Y	Y	N	N	N	N	N	N
20 24hr Freeze		Y	Y	N	N	N	N	N	N
21 24hr Latching Tamper		Y	Y	N	N	N	N	N	N
22 Momentary Keyswitch		N	N	N	N	Y	N	N	N
23 Maintained Keyswitch		N	N	N	N	Y	N	N	N
24 LINKS Answer		N	N	N	N	Y	N	N	N
25 Interior Delay		Y	Y	N	Y	N	Y	N	N
87 Dly. 24hr Fire (Wireless)		Y	N	N	N	N	N	N	Y
88 Stand. 24hr Fire (Wireless)		Y	N	N	N	N	N	N	Y

*NOTE: For UL installations, do not change attribute 5 (Force Arming) from the default setting.

Section	Zone #	Zone Type*	1	2	3	4	5	6	7	8
[101]	1	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[102]	2	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[103]	3	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[104]	4	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[105]	5	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[106]	6	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[107]	7	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[108]	8	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[109]	9	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[110]	10	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[111]	11	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[112]	12	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[113]	13	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|
[114]	14	( )	|__|	|__|	|__|	|__|	|__|	|__|	|__|	|__|

[115]	15	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[116]	16	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[117]	17	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[118]	18	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[119]	19	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[120]	20	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[121]	21	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[122]	22	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[123]	23	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[124]	24	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[125]	25	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[126]	26	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[127]	27	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[128]	28	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[129]	29	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[130]	30	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[131]	31	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I
[132]	32	( )	L__I	L__I	L__I	L__I	L__I	L__I	L__I	L__I

*Record here based on programming in sections [001] - [004]

PGM Output Attributes (Section 5.11 "PGM Output Options" on page 20)
Program only the following attributes for the PGM options listed. All others will be ignored. PGM options are programmed in [009].

PGM Attribute Defaults (Y = Attribute ON; N = Attribute OFF):

Attribute:		1	2	3	4	5
	ON	Output enabled	—	True Output	Follows Timer	Code Req.
	OFF	Output disabled	—	Inverted	On / Off	No Code Req.
PGM Option						
[01] Burg. / Fire Bell		Y		Y		
[03] Sensor Reset		Y		Y		N
[05] Armed Status		Y		Y		
[06] Ready To Arm		Y		Y		
[07] Kypd Bzz Follow		Y		Y		
[08] Courtesy Pulse		Y		Y		
[11] System Tamper				Y		
[12] TLM and Alarm				Y		
[13] Kiss-off				Y		
[14] Gnd Strt Pulse				Y		
[15] Remote Op.				Y		
[16] LINKS1000 Sup.				Y		
[17] Away Armed Status		Y		Y		
[18] Stay Armed Status		Y		Y		
[19] Comm. Output #1		Y		Y	Y	Y
[20] Comm. Output #2		Y		Y	Y	N

Attribute:		1	2	3	4	5	6	7	8
PGM Option									
	ON	Serv. req.	AC Fail	TLM Fault	FTC	Zone Fault	Zone Tmp.	Zn. Low Bat.	Loss of Clock
	OFF	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
[09] System Trouble		Y	Y	Y	Y	Y	Y	Y	Y
	ON	Burg. Evnt.	Fire Evnt.	Panic Evnt.	Med. Evnt.	Supv. Evnt.	Priority Evnt.	Holdup Evnt.	Follows Timer*
	OFF	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Latched
[10] System Event		Y	Y	Y	Y	Y	Y	Y	N
		*If attribute [8] is turned ON, attributes [1-7] must also be turned ON.							

Section	PGM #	Output Type*	1	2	3	4	5	6	7	8
[141]	1	( )	|___|	|___|	|___|	|___|	|___|	|___|	|___|	|___|
[142]	2	( )	|___|	|___|	|___|	|___|	|___|	|___|	|___|	|___|

*Record here based on programming in [009].

[160] Maximum Dialing Attempts to Each Telephone Number (Section 5.5 "Communicator – Dialing" on page 17)
Default: 008 |___|___|___| Valid entries are 001-015 attempts (do not enter 000).

[161] Post Dial Wait for Handshake (All Formats) (Section 5.5 "Communicator – Dialing" on page 17)
Default: 040 |___|___|___| Valid entries are 001-255 seconds

[164] PGM Output Timer (Section 5.5 "Communicator – Dialing" on page 17)
Default: 005 |___|___|___| Valid entries are 001-255 seconds

[202] Zone Assignments 01-08 (Section 5.2 "Zone Programming" on page 15)
Program zone definitions in sections [001] - [004] and zone attributes in sections [101] - [132]. Program keypad zone assignments in section [020].

NOTE: Any zones not used on the system should be disabled in this section. Disabled wireless zones should have a blank serial number (i.e. [000000]).

Zones 1-8: Default = ON; Zones 9-32: Default = OFF

Section	Option:	1	2	3	4	5	6	7	8
[202]		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
		|___|	|___|	|___|	|___|	|___|	|___|	|___|	|___|
[203]		Zone 9	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
		|___|	|___|	|___|	|___|	|___|	|___|	|___|	|___|
[204]		Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
		|___|	|___|	|___|	|___|	|___|	|___|	|___|	|___|
[205]		Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
		|___|	|___|	|___|	|___|	|___|	|___|	|___|	|___|

Communicator Programming

NOTE: For sections [301] to [353], the content of every section by default is [F].

[301] First Telephone Number (32 Digits) (Section 5.7 "Communicator – Telephone Numbers" on page 17)

|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|

[302] Second Telephone Number (32 Digits) (Section 5.7 "Communicator – Telephone Numbers" on page 17)

|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|

[303] Third Telephone Number (32 Digits) (Section 5.7 "Communicator – Telephone Numbers" on page 17)

|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|

[310] First/Third Telephone Number Account Code (Section 5.6 "Communicator – Account Numbers" on page 17)

|___|___|___|___|

[311] Second Telephone Number Account Code (Section 5.6 "Communicator – Account Numbers" on page 17)

|___|___|___|___|

Alarm Reporting Codes, Zones 1-32 (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

Section	1	2	3	4	5	6	7	8
[320]	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
[321]	Zone 9	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
[322]	Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
[323]	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|

Alarm Restoral Reporting Codes, Zones 1-32 (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)
Section

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
[324]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
	Zone 9	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
[325]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
	Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
[326]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
[327]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|

[328] Miscellaneous Alarm Reporting Codes (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

|__|__| 1. Duress Alarm |__|__| 4. Zone Expander Supervisory Alarm

|__|__| 2. Opening After Alarm |__|__| 5. Zone Expander Supervisory Restoral

|__|__| 3. Recent Closing |__|__| 6. Cross Zone Police Code Alarm

[329] Priority Alarm and Restoral (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

|__|__| 1. Keypad Fire Alarm |__|__| 5. Keypad Fire Restoral

|__|__| 2. Keypad Auxiliary Alarm |__|__| 6. Keypad Auxiliary Restoral

|__|__| 3. Keypad Panic Alarm |__|__| 7. Keypad Panic Restoral

|__|__| 4. For future use |__|__| 8. For future use

Tamper Reporting Codes, Zones 1-32 (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)
Section

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
[330]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
	Zone 9	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
[331]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
	Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
[332]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
[333]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|

Tamper Restoral Reporting Codes, Zones 1-8 (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)
Section

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
[334]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
	Zone 9	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
[335]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
	Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
[336]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|
	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
[337]	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|	|__|__|

[338] Miscellaneous Tamper Reporting Codes (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

|__|__| 1. General System Tamper

|__|__| 2. General System Tamper Rest.

|__|__| 3. Keypad Lockout

Closing (Arming) Reporting Codes, Access Codes 1-32 (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)
Section

Section								
[339]	Code 1	Code 2	Code 3	Code 4	Code 5	Code 6	Code 7	Code 8
	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
[340]	Code 9	Code 10	Code 11	Code 12	Code 13	Code 14	Code 15	Code 16
	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
[341]	Code 17	Code 18	Code 19	Code 20	Code 21	Code 22	Code 23	Code 24
	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
[342]	Code 25	Code 26	Code 27	Code 28	Code 29	Code 30	Code 31	Code 32
	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|

[343] Miscellaneous Closing (Arming) Reporting Codes
(Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

|___|___| 1. Closing by Duress Code 33 |___|___| 5. Closing by Supervisory Code 42

|___|___| 2. Closing by Duress Code 34 |___|___| 6. Partial Closing

|___|___| 3. Closing by Master Code 40 |___|___| 7. Special Closing

|___|___| 4. Closing by Supervisory Code 41

Opening (Disarming) Reporting Codes, Access Codes 1-8 (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)
Section

Section								
[344]	Code 1	Code 2	Code 3	Code 4	Code 5	Code 6	Code 7	Code 8
	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
[345]	Code 9	Code 10	Code 11	Code 12	Code 13	Code 14	Code 15	Code 16
	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
[346]	Code 17	Code 18	Code 19	Code 20	Code 21	Code 22	Code 23	Code 24
	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|
[347]	Code 25	Code 26	Code 27	Code 28	Code 29	Code 30	Code 31	Code 32
	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|	|___|___|

[348] Miscellaneous Opening (Disarming) Reporting Codes
(Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

|___|___| 1. Opening by Duress Code 33 |___|___| 5. Opening by Supervisory Code 42

|___|___| 2. Opening by Duress Code 34 |___|___| 6. Auto Arm Cancellation

|___|___| 3. Opening by Master Code 40 |___|___| 7. Special Opening

|___|___| 4. Opening by Supervisory Code 41

[349] Maintenance Alarm Reporting Codes (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

|___|___| 1. Battery Trouble Alarm |___|___| 5. Auxiliary Power Supply Trouble Alarm

|___|___| 2. AC Failure Trouble Alarm |___|___| 6. TLM Trouble Code (via LINKS)

|___|___| 3. Bell Circuit Trouble Alarm |___|___| 7. For future use

|___|___| 4. Fire Trouble Alarm |___|___| 8. General System Supervisory

[350] Maintenance Restoral Reporting Codes (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

|___|___| 1. Battery Trouble Restoral |___|___| 5. Auxiliary Power Supply Trouble Restoral

|___|___| 2. AC Failure Trouble Restoral |___|___| 6. TLM Restoral

|___|___| 3. Bell Circuit Trouble Restoral |___|___| 7. For future use

|___|___| 4. Fire Trouble Restoral |___|___| 8. General System Supervisory Restore

[351] Miscellaneous Maintenance Reporting Codes (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

|___|___| 1. Telephone Number 1 FTC Restore |___|___| 5. DLS Lead OUT

|___|___| 2. Telephone Number 2 FTC Restore |___|___| 6. Zone Fault Alarm

|___|___| 3. Event Buffer 75% Full Since Last Upload |___|___| 7. Zone Fault Restore

|___|___| 4. DLS Lead IN |___|___| 8. Delinquency Code

[352] Test Transmission Reporting Codes (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

|___|___| 1. Periodic Test Transmission |___|___| 3. LINKS1000 Test Transmission Code*

|___|___| 2. System Test

*The LINKS Test Transmission Code must be programmed as "00" for the LINKS Test Transmission to be disabled.

[353] Wireless Maintenance Reporting Codes (Section 5.8 "Communicator – Reporting Codes" on pg. 18, & Appendix A)

ㅣ___ㅣ___ㅣ   1. Wireless Device Low Battery Alarm   ㅣ___ㅣ___ㅣ   2. Wireless Device Low Battery Restore

[360] Communicator Format Options (Section 5.9 "Communicator – Reporting Formats" on page 19)

NOTE:The Third telephone number follows the format of the First telephone number.

Default

02   ㅣ___ㅣ___ㅣ   1st/3rd Telephone Number

02   ㅣ___ㅣ___ㅣ   2nd Telephone Number

01 20 BPS, 1400 HZ handshake   **04** SIA FSK
02 20 BPS, 2300 HZ handshake   **05** Pager
03 DTMF CONTACT ID

[361] Alarm/Restore Communicator Call Directions (Section 5.5 "Communicator – Dialing" on page 17)

Default		Option	ON	OFF
ON	ㅣ___ㅣ	1	1st Telephone Number	Disabled
OFF	ㅣ___ㅣ	2	2nd Telephone Number	Disabled
OFF	ㅣ___ㅣ	3	1st Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	4	2nd Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	5-8	For future use	

[363] Tamper/Restore Communicator Call Directions (Section 5.5 "Communicator – Dialing" on page 17)

Default		Option	ON	OFF
ON	ㅣ___ㅣ	1	1st Telephone Number	Disabled
OFF	ㅣ___ㅣ	2	2nd Telephone Number	Disabled
OFF	ㅣ___ㅣ	3	1st Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	4	2nd Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	5-8	For future use	

[365] Opening/Closing Communicator Call Directions (Section 5.5 "Communicator – Dialing" on page 17)

Default		Option	ON	OFF
ON	ㅣ___ㅣ	1	1st Telephone Number	Disabled
OFF	ㅣ___ㅣ	2	2nd Telephone Number	Disabled
OFF	ㅣ___ㅣ	3	1st Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	4	2nd Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	5-8	For future use	

[367] System Maintenance Alarm/Restore Communicator Call Directions (Section 5.5 "Communicator – Dialing" on page 17)

Default		Option	ON	OFF
ON	ㅣ___ㅣ	1	1st Telephone Number	Disabled
OFF	ㅣ___ㅣ	2	2nd Telephone Number	Disabled
OFF	ㅣ___ㅣ	3	1st Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	4	2nd Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	5-8	For future use	

[368] System Test Transmissions Communicator Call Directions (Section 5.5 "Communicator – Dialing" on page 17)

Default		Option	ON	OFF
ON	ㅣ___ㅣ	1	1st Telephone Number	Disabled
OFF	ㅣ___ㅣ	2	2nd Telephone Number	Disabled
OFF	ㅣ___ㅣ	3	1st Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	4	2nd Telephone Number (via LINKS)	Disabled
OFF	ㅣ___ㅣ	5-8	For future use	

NOTE:The LINKS1000 backup call directions will only back up their respective telephone numbers.

[370] Communication Variables

Default				Section	Page #
003	|___|___|___|	Swinger Shutdown (Alarms and Rest)	(001-014 Transmissions, 000=disabled)	5.19	24
003	|___|___|___|	Swinger Shutdown (Tampers and Rest)	(001-014 Transmissions, 000=disabled)	5.19	24
003	|___|___|___|	Swinger Shutdown (Maint and Rest)	(001-014 Transmissions, 000=disabled)	5.19	24
000	|___|___|___|	Transmission Delay	(001-255 seconds)	5.15	23
030	|___|___|___|	AC Failure Communication Delay	(001-255 minutes)	5.8	18
003	|___|___|___|	TLM Trouble Delay	(No. of checks required - valid entries 003 - 255)	5.12	22
030	|___|___|___|	Test Transmission Cycle (land line)	(001-255 days)	5.14	22
030	|___|___|___|	Test Transmission Cycle (LINKS)	(001-255 days)	5.14	22
007	|___|___|___|	Zone Low Battery Transmission Delay	(000-255 days)	5.8	18
030	|___|___|___|	Delinquency Transmission Cycle	(000-255 days/hours)	5.8	18

NOTE: *To disable the AC failure communications delay, program [000].*

[371] Test Transmission Time of Day (Section 5.14 "Test Transmission" on page 22)

Default
9999 \|___\|___\|___\|___\| (Valid entries are 0000-2359, 9999 to disable)

[380] First Communicator Option Code

Default		Option	ON	OFF	Section	Page #
ON	|___|	1	Communications Enabled	Communications Disabled	5.5	17
OFF	|___|	2	Restorals on Bell Time-out	Restorals Follow Zones	5.8	18
OFF	|___|	3	Pulse Dialing	DTMF Dialing	5.5	17
ON	|___|	4	Switch to Pulse Dialing on 5th Attempt	DTMF Dial For All Attempts	5.5	17
OFF	|___|	5	3rd Telephone Number enabled	3rd Telephone Number disabled	5.7	17
OFF	|___|	6	Alternate Dial (1st and 3rd)	Call 1st Number, Backup to 3rd	5.7	17
OFF	|___|	7	Call LINKS as well as Land Line	LINKS is Backup of Land Line(s)	5.26	25
OFF	|___|	8	Delinquency Follows Zone Activity (Hours)	Delinquency Follows Arming (Days)	5.8	18

[381] Second Communicator Option Code

Default		Option	ON	OFF	Section	Page #
OFF	|___|	1	Open After Alarm Kypd Ringback enabled	Open After Alrm Kypd Ringback disabled	5.17	23
OFF	|___|	2	Open After Alarm Bell Ringback enabled	Open After Alrm Bell Ringback disabled	5.17	23
OFF	|___|	3	SIA Sends Programmed Rep. Codes	SIA Sends Automatic Rep. Codes	5.9	19
OFF	|___|	4	Closing Confirmation Enabled	Closing Confirmation Disabled	5.17	23
OFF	|___|	5-6	For future use	—		
ON	|___|	7	Contact ID Uses Programmed Rep. Codes	Contact ID Uses Automatic Rep. Codes	5.9	19
OFF	|___|	8	For future use	—		

[390] LINKS Preamble (First Telephone Number) (Section 5.26 "LINKS1000 Cellular Communicator*" on page 25)
Default: FFFF \|___\|___\|___\|___\| (Program all unused digits with Hex F)

[391] LINKS Preamble (Second Telephone Number) (Section 5.26 "LINKS1000 Cellular Communicator*" on page 25)
Default: FFFF \|___\|___\|___\|___\| (Program all unused digits with Hex F)

[392] LINKS Preamble (Third Telephone Number) (Section 5.26 "LINKS1000 Cellular Communicator*" on page 25)
Default: FFFF \|___\|___\|___\|___\| (Program all unused digits with Hex F)

[393] LINKS Special Function Preamble (All Telephone Numbers) (Section 5.26 "LINKS1000 Cellular Communicator*" on page 25)
Default: FFFFFF \|___\|___\|___\|___\|___\|___\| (Program all unused digits with Hex F)

•Enter [*][2][*] (HEX B) to dial [*]   • Enter [*][3][*] (HEX C) to dial [#]

Downloading Options

[401] First Downloading Option Code (Section 5.10 "Downloading" on page 20)

Default	Option	ON	Off
OFF	⌊___⌋	1	Answering machine/double call enabled	Answering machine/double call disabled
ON	⌊___⌋	2	User Can Enable DLS Window	User Cannot Enable DLS Window
OFF	⌊___⌋	3	Call-Back Enabled	Call-Back Disabled
OFF	⌊___⌋	4	User-initiated call-up enabled	User-initiated call-up disabled
OFF	⌊___⌋	5-8	For future use	

[402] Downloading Computer's Telephone Number (32 Digits) (Section 5.10 "Downloading" on page 20)

⌊__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__⌋

[403] Downloading Access Code (Section 5.10 "Downloading" on page 20)
Default: 0580 ⌊__|__|__|__⌋   Enter 4 HEX digits

[404] Panel Identification Code (Section 5.10 "Downloading" on page 20)
Default: 0580 ⌊__|__|__|__⌋   Enter 4 HEX digits

[405] Answering Machine Double-call Timer (Section 5.10 "Downloading" on page 20)
Default: 060 ⌊__|__|__⌋ (Valid entries are 001-255 seconds)

[406] Number of Rings to Answer On (Section 5.10 "Downloading" on page 20)
Default: 000 ⌊__|__|__⌋ (Valid entries are 000-255 rings)

[490] LINKS Preamble (Downloading Telephone Number) (Section 5.10 "Downloading" on page 20)
Default: FFFF ⌊__|__|__|__⌋ (Program all unused digits with Hex F)

[499] [Installer's Code] [499] Initiate PC-Link (Local Downloading) (Section 5.10 "Downloading" on page 20)

International Programming

[701] First International Options Code

Default	Option	ON	Off	Section	Page #
OFF	⌊___⌋	1-4	For Future Use			
OFF	⌊___⌋	5	6-Digit User Access Codes	4-Digit User Access Codes	5.1	15
OFF	⌊___⌋	6	Busy tone detection enabled	Busy tone detection disabled	5.5	17
OFF	⌊___⌋	7-8	For Future Use			

Module Programming*

[801] PC5400 Printer Module Programming
Please refer to your PC5400 Installation Manual for installation and programming instructions.

[803]   Alternative Communicator Programming
Please refer to your LINKS2X50, Skyroute Installation Manual for installation and programming instructions.

[804] PC5132 Wireless Expansion Programming
Please refer to your PC5132 Installation Manual for programming locations and instructions.

* LINKS2X50 and Skyroute modules have not been investigated by UL.

Special Installer Functions

[901] Installer Walk Test Mode Enable / Disable (Section 5.30 "Walk Test (Installer)" on page 26)

[902] Module Supervision Reset (Section 2.7 "Removing Modules" on page 5)

[903] Module Supervision Field (Section 2.6 "Supervision" on page 5)

[904] Wireless Module Placement Test
For more information, please refer to your PC5132 Installation Manual

- Select the module / transmitter (Zones 01-32).
- Press [#] to Cancel.

Placement	Led Keypad	LCD Keypad	Bell / Buzzer
Good	Light 1 ON Steady	"GOOD"	1 Beep / Squawk
Fair	Light 2 ON Steady	"FAIR"	2 Beeps / Squawks
Bad	Light 3 ON Steady	"BAD"	3 Beeps / Squawks

[990] Installer Lockout Enable (Section 5.29 "Installer's Lockout" on page 26)

[991] Installer Lockout Disable (Section 5.29 "Installer's Lockout" on page 26)

[993] Restore Alternative Communicator to Factory Default Programming
(Section 5.28 "Resetting Factory Defaults*" on page 26)

[996] Restore PC5132 to Factory Default Programming (Section 5.28 "Resetting Factory Defaults*" on page 26)

[997] Restore PC5400 to Factory Default Programming (Section 5.28 "Resetting Factory Defaults*" on page 26)

[999] Restore PC580 to Factory Default Programming (Section 5.28 "Resetting Factory Defaults*" on page 26)

Appendix A: Reporting Codes

The following tables contain Contact ID and Automatic SIA format reporting codes. For more information on reporting code formats and notes about individual reporting codes, see sections 5.8 *"Communicator – Reporting Codes"* on page 18 and 5.9 *"Communicator – Reporting Formats"* on page 19.

Contact ID

The first digit (in parentheses) will automatically be sent by the control. The second two digits are programmed to indicate specific information about the signal.

For example, if zone 1 is an entry/exit point, you could program the event code as [34]. The central station would receive the following:

*BURG - ENTRY/EXIT - 1

where the "1" indicates which zone went into alarm.

SIA Format - Level 2 (Hardcoded)

The SIA communication format used in this product follows the level 2 specifications of the SIA Digital Communication Standard - January 1996. This format will send the Account Code along with its data transmission. The transmission would look similar to the following at the receiver:

N	Ri01		BA 01
N	=	New Event	
Ri01	=	Partition /Area Identifier	
BA	=	Burglary Alarm	
01	=	Zone 1	

Section #	Reporting Code	Code Sent When...	Dialer Direction*	Contact ID Codes	SIA Auto Rep Codes**
[320]	Zone Alarms	zone goes into alarm	A/R	(1) 3A	See Table 3
[324]	Zone Restorals	alarm condition has been restored	A/R	(1) 3A	
[330] [334]	Zone Tamper/Restoral	zone exhibits a tamper condition/tamper condition restored	T/R	(1) 44	TA-ZZ/TR-ZZ
[328]	Duress Alarm	duress code entered at keypad	A/R	(1) 21	HA-00
[328]	Opening After Alarm	system disarmed with alarm in memory	A/R	(4) A6	OR-00
[328]	Recent Closing	alarm occurs within two minutes of system arming	A/R	(4) 59	CR-00
[328]	Zone Expander Supervisory Alarm/Rest.	panel loses/restores supervisory transmission over the Keybus from enrolled PC5132 module or keypads with zone inputs	A/R	(1) 43	UA-00/UH-00
[328]	Cross Zone (Police Code) Alarm	two zones on the same partition go into alarm during any given armed-to-armed period (incl. 24Hr zones)	A/R	(1) 4A	BV-00
[329]	[F] Key Alarm/Rest.	Keypad fire alarm (alarm and restore rep. codes sent together)	A/R	(1) 15	FA-00/FH-00
[329]	[A] Key Alarm/Rest.	Keypad auxiliary alarm (alarm and restore rep. codes sent together)	A/R	(1) AA	MA-00/MH-00
[329]	[P] Key Alarm/Rest.	Keypad panic alarm (alarm and restore rep. codes sent together)	A/R	(1) 2A	PA-00/PH-00
[338]	General System Tamper/ Rest.	enrolled module with tamper inputs has a tamper alarm/ all module tampers restored	T/R	(1) 45	TA-00/TR-00
[338]	Keypad Lockout	max. number of incorrect access codes has been entered at a keypad	T/R	(4) 21	JA-00
[339-343]	Closings	system armed (user 01-34, 40-42 indicated)	O/C	(4) A2	CL-UU
[343]	Partial Closing	one or more zones bypassed when system armed	O/C	(4) 7A	CG-ZZ
[343]	Special Closing	Closing (arming) using one of the following methods: quick arm, auto arm, keyswitch, function key, maintenance code, DLS software	O/C	(4) AA	CL-00
[344-348]	Openings	system disarmed (user 01-34, 40-42 indicated)	O/C	(4) A2	OP-UU
[348]	Auto Arm Cancellation	auto arm cancelled	O/C	(4) A5	CE-00
[348]	Special Opening	Opening (disarming) using one of the following methods: keyswitch, maintenance code, DLS software	O/C	(4) AA	OP-00
[349-350]	Battery Trouble/Rest.	PC580 battery is low/battery restored	MA/R	(3) A2	YT-00/YR-00

* A/R = alarms/restorals; T/R = tampers/restorals; O/C = openings/closings; MA/R = miscellaneous alarms/restorals; T = test transmissions
** UU = user number (user01-42); ZZ = zone number (01-08)

Section #	Reporting Code	Code Sent When...	Dialer Direction*	Contact ID Codes	SIA Auto Rep Codes**
[349-350]	AC Line Trouble/Rest.	AC power to control panel is disconnected or interrupted/AC power restored (Both codes follow AC Failure Comm. Delay.)	MA/R	(3) A1	AT-00/AR-00
[349-350]	Main Bell Trouble/Rest.	open circuit detected across bell terminals/bell circuit closed	MA/R	(3) 21	UT-99/UJ-99
[349-350]	Fire Trouble/Rest.	a trouble occurs/restores on a fire zone	MA/R	(3) 73	FT-00/FJ-00
[349-350]	Auxiliary Power Trouble/Rest.	aux voltage supply trouble/restoral	MA/R	(3) AA	YP-00/YQ-00
[349]	TLM Failure	telephone line monitoring trouble (sent via LINKS. Do not program if LINKS not used)	MA/R	(3) 51	LT-00
[350]	TLM Restore	Telephone line trouble restore	MA/R	(3) 51	LR-00
[349-350]	Gen System Supervisory Trouble/Rest.	control panel loses/restores communications with module(s) connected to the Keybus	MA/R	(3) 33	ET-00/ER-00
[351]	Line 1 or 2 FTC Restoral	control panel has restored communications to central station on line 1 or 2 (after FTC)	MA/R	(3) 54	YK-00
[351]	Event Buffer is 75% Full	event buffer is almost full since last upload	MA/R	(6) 23	JL-00
[351]	DLS Lead In	downloading session start	MA/R	(4) 11	RB-00
[351]	DLS Lead Out	downloading session complete	MA/R	(4) 12	RS-00
[351]	Zone Fault/Rest.	one or more zones have faults/restored	MA/R	(3) 72	UT-00/UJ-00
[351]	Delinquency	programmed amount of time (days or hours) for delinquency has expired without zone activity or without system being armed	MA/R	(4) 54***	CD-00
[352]	Periodic Test	periodic system test transmission	T	(6) A2	RP-00
[352]	System Test	[*][6] bell/communications test	T	(6) A1	RX-00
[352]	LINKS Test	LINKS test transmission	T	(6) A3	TX-00
[353]	Wireless Device Low Battery Trouble/Rest.	wireless zones (WLS904, WLS905, WLS907); panic pendants (WLS908); handheld keypads (WLS910); wireless keys (WLS909) have low battery/all low batteries restored	MA/R	(3) 84	XT-00/XR-00

* A/R = alarms/restorals; T/R = tampers/restorals; O/C = openings/closings; MA/R = miscellaneous alarms/restorals; T = test transmissions
** UU = user number (user01-42); ZZ = zone number (01-08)
***Program the "Fail to close" event code [(4)54] to report either closing or activity delinquency. Make sure your central station is aware of the application of this reporting code.

Table2: Contact ID Zone Alarm/Restoral Event Codes (as per ADEMCO):

Program any of these codes for zone alarms/restorals when using the standard (non-automatic) Contact ID reporting format.

Medical Alarms
(1)AA Medical
(1)A1 Pendant Transmitter
(1)A2 Fail to Report In
Fire Alarms
(1)1A Fire Alarm
(1)11 Smoke
(1)12 Combustion
(1)13 Water Flow
(1)14 Heat
(1)15 Pull Station
(1)16 Duct
(1)17 Flame
(1)18 Near Alarm
Panic Alarms
(1)2A Panic
(1)21 Duress
(1)22 Silent
(1)23 Audible
Burglar Alarms
(1)3A Burglary
(1)31 Perimeter
(1)32 Interior
(1)33 24 Hour

(1)34 Entry / Exit
(1)35 Day / Night
(1)36 Outdoor
(1)37 Tamper
(1)38 Near Alarm
General Alarms
(1)4A General Alarm
(1)43 Exp. module failure
(1)44 Sensor tamper
(1)45 Module Tamper
(1)4A Cross Zone Police Code
24 Hour Non-Burglary
(1)5A 24 Hour non-Burg
(1)51 Gas detected
(1)52 Refrigeration
(1)53 Loss of Heat
(1)54 Water Leakage
(1)55 Foil Break
(1)56 Day Trouble
(1)57 Low bottled Gas level
(1)58 High Temp
(1)59 Low Temp
(1)61 Loss of Air Flow

Table 3: SIA Format Automatic Zone Alarm/Restoral Codes

Zone Definition	SIA Auto Rep Codes*
	Zone Alm/Rest.
Delay, Instant, Interior, Delay Stay/Away, Interior Stay/Away, 24Hr Burg.	BA-ZZ/BH-ZZ
Standard 24Hr Fire, Delayed 24Hr Fire	FA-ZZ/FH-ZZ
24Hr Supervisory	US-ZZ/UR-ZZ
24Hr Supervisory Buzzer	UA-ZZ/UH-ZZ
24Hr Sprinkler	SA-ZZ/SH-ZZ
24Hr Gas	GA-ZZ/GH-ZZ
24Hr Heat	KA-ZZ/KH-ZZ
24Hr Medical	MA-ZZ/MH-ZZ
24Hr Emergency (non-medical)	QA-ZZ/QH-ZZ
24Hr Waterflow	WA-ZZ/WH-ZZ
24Hr Freeze	ZA-ZZ/ZH-ZZ
24Hr Holdup	HA-ZZ/HH-ZZ
24Hr Panic	PA-ZZ/PH-ZZ
Latching 24Hr	BA-ZZ/BH-ZZ
* ZZ = zones 01-08	

Appendix B: Programming LCD Keypads

If you have an LCD5500Z Keypad, additional programming is required for proper operation. The following is a description of the available programming options and their accompanying programming sections:

How to Enter LCD Programming
Follow the programming procedure as outlined in Section 4 by pressing [*][8][Installer's Code]. Press the [*] key. Enter the two digit Section number to be programmed.

Programmable Labels – Sections [01] - [08], [33], [34], [40], [44], [51], [52]
Zone labels and other LCD display identifiers can be customized to make operation of the system easier for the end user. The following procedure should be used for creating all LCD labels:

• Enter Installer's Programming. Enter the Number corresponding to the label to be programmed.
• Use the arrow keys (<>) to move the underline bar underneath the letter to be changed.
• Press the number key [1] to [9] corresponding to the letter you require. The first time you press the number the first letter will appear. Pressing the number key again will display the next letter. Refer to the following chart:

    [1] - A, B, C, 1   [2] - D, E, F, 2   [3] - G, H, I, 3   [4] - J, K, L, 4   [5] - M, N, O, 5
    [6] - P, Q, R, 6   [7] - S, T, U, 7   [8] - V, W, X, 8   [9] - Y, Z, 9,0   [0] - Space

• When the required letter or number is displayed use the arrow keys (<>) to scroll to the next letter.
• When you are finished programming the Zone Label, press the [*] key, scroll to "Save," then press [*].
• Continue from Step 2 until all Labels are programmed.

[01] to [32] Zone Labels (14 Characters)
    Default: "Zone 1" - "Zone 32"

    Record zone labels on page 28

[33] Fire Alarm Label (14 Characters)
    Default: "Fire Zone"   L__I__I__I__I__I__I__I__I__I__I__I__I__I__I

[34] System Label (14 Characters)
    Default: "System"   L__I__I__I__I__I__I__I__I__I__I__I__I__I__I

[40] to [44] [*][7][1-2] Command Output Option Labels (14 Characters)

    [40] Default: "Command O/P 1"L__I__I__I__I__I__I__I__I__I__I__I__I__I__I

    [44] Default: "Command O/P 2"L__I__I__I__I__I__I__I__I__I__I__I__I__I__I

[51] Fail to Arm Event Message
    Default: "System Has Failed to Arm" L__I__I__I__I__I__I__I__I__I__I__I__I__I__I

[52] Alarm When Armed Event Message
    Default: "Alarm Occurred While Armed < >"L__I__I__I__I__I__I__I__I__I__I__I__I__I__I

[60] First User Display Mask

Default		Option	ON	OFF
ON	L__I	1	Hold [P]anic Keys prompt ON	Hold [P]anic Keys prompt OFF
ON	L__I	2	Zone Bypassing prompt ON	Zone Bypass prompt OFF
ON	L__I	3	Troubles prompt ON	Troubles prompt OFF
ON	L__I	4	Alarm Memory prompt ON	Alarm Memory prompt OFF
ON	L__I	5	Door Chime Control prompt ON	Door Chime Control prompt OFF
ON	L__I	6	Access Codes prompt ON	Access Codes prompt OFF
ON	L__I	7	User Functions prompt ON	User Functions prompt OFF
ON	L__I	8	Output Control prompt ON	Output Control prompt OFF

[61] Second User Display Mask

Default		Option	ON	OFF
OFF	l___l	1	Installer Programming prompt ON	Installer Programming prompt OFF
ON	l___l	2	Stay Arm prompt ON	Stay Arm prompt OFF
ON	l___l	3	Quick Arm prompt ON	Quick Arm prompt OFF
ON	l___l	4	Interior Arm prompt ON	Interior Arm prompt OFF
OFF	l___l	5	Quick Exit prompt ON	Quick Exit prompt OFF
ON	l___l	6	View Event Buffer prompt ON	View Event Buffer prompt OFF
OFF	l___l	7-8	For future use	

[62] Third User Display Mask

Default		Option	ON	OFF
ON	l___l	1	System Test prompt ON	System Test prompt OFF
ON	l___l	2	Time and Date prompt ON	Time and Date prompt OFF
ON	l___l	3	Auto-Arm Control prompt ON	Auto-Arm Days prompt OFF
ON	l___l	4	Auto-Arm Time prompt ON	Auto-Arm Time prompt OFF
ON	l___l	5	Download Enable prompt ON	Download Enable prompt OFF
ON	l___l	6	Bright Control prompt ON	Bright Control prompt OFF
ON	l___l	7	Contrast Control prompt ON	Contrast Control prompt OFF
ON	l___l	8	Buzzer Control prompt ON	Buzzer Control prompt OFF

[63] Downloaded LCD Message Duration

Default: 003 l___l___l___l (Valid entries are 000-255, 000=Unlimited Message Display. This number represents the number of times the Downloaded message is cleared by pressing any key while the message is up after timeout)

[64] Key Options

Default		Option	ON	OFF
ON	l___l	1	[F]ire Keys enabled	[F]ire Keys disabled
ON	l___l	2	[A]uxiliary Keys enabled	[A]uxiliary Keys disabled
ON	l___l	3	[P]anic Keys enabled	[P]anic Keys disabled
OFF	l___l	4-8	For future use	

[65] Fourth User Display Mask

Default		Option	ON	OFF
ON	l___l	1	User Initiated Call-up Prompt ON	User Initiated Call-up Prompt OFF
OFF	l___l	2	For future use	
OFF	l___l	3	For future use	
ON	l___l	4	Command Output #1 prompt ON	Command Output #1 prompt OFF
ON	l___l	5	Command Output #2 prompt ON	Command Output #2 prompt OFF
OFF	l___l	6-8	For future use	

[66] Keypad Options

Default		Option	ON	OFF
ON	l___l	1	Display Access Code when Programming	Display 'X' when Programming
ON	l___l	2	Local Clock Display Enabled	Local Clock Display Disabled
OFF	l___l	3	Local Clock Displays 24 Hour time	Local Clock Displays AM/PM
ON	l___l	4	Auto Alarm Memory Scroll Enabled	Auto Alarm Memory Scroll Disabled
OFF	l___l	5-8	For future use	

[97] View Software Version

[98] Initiate Global Label Broadcast

All LCD programming is done per keypad. If more than one LCD keypad are present on the system, and the PC5400 receives labels, labels programmed at one keypad can be broadcast to all other LCD keypads. Perform the following procedure in order to broadcast labels:

Step 1 - Program one LCD keypad completely.

Step 2 - Make sure all LCD keypads are connected to the Keybus.

Step 3 - Enter Installer's Programming, then enter Section [98] at the keypad that was programmed. The keypad will now broadcast all the information programmed to all the other LCD keypads on the system.

Step 4 - When the keypad is finished press the [#] key to exit.

[99] Reset LCD EEPROM to Factory Defaults

ASCII Characters