PowerSeries™
SECURITY SYSTEM

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PC1864/PC1832/PC1616 Alarm Controller V4.x Installation Guide

This document provides information to meet UL Listing requirements for the PowerSeries PC1616/PC1832/PC1864 alarm controllers. ***Use it in conjunction with the PowerSeries PC1616/PC1832/PC1864 Installation Manual.***

OUT OF THE BOX

Qty 1 ☐ Cabinet
Qty 1 ☐ PC Module
Qty 1 ☐ Installation Guide
Qty 1 ☐ User Manual
Qty 2 ☐ Cabinet Label
Qty 1 ☐ Cabinet Door Plug
Qty 5 ☐ Standoffs
Qty 16 ☐ 5.6KΩ Resistors
Qty 1 ☐ 1.0KΩ and 2.2KΩ Resistor
Qty 1 ☐ Grounding Kit

SPECIFICATIONS

Temp Range: 0°C-49°C (32°F-120°F)
Humidity (Max): 93% R.H.
Power Supply: 16.5VAC/40VA@60Hz
Current Draw (Panel): 110mA (nom.)
Aux+ Output: 11.1-12.6VDC/700mA
Bell Output: 11.1-12.6VDC/700mA

FEATURES	PC1616	PC1832	PC1864
On-board Zones	6	8	8
Hardwired Zones	16 (1xPC5108)	32 (3xPC5108)	64 (7xPC5108)
Wireless Zones	32	32	64
Keypad Zone Support	✓	✓	✓
On-board PGM Outputs	PGM 1 - 50mA PGM 2 - 300mA	PGM 1 - 50mA PGM 2 - 300mA	PGM 1, 3, 4-50mA PGM 2-300mA
PGM Expansion	8x50mA (PC5208) 4x500 mA (PC5204)	8x50mA (PC5208) 4x500 mA (PC5204)	8x50mA (PC 5208) 4x500 mA (PC5204)
Keypads	8	8	8
Partitions	2	4	8
User Codes	47+ Master Code	71 + Master Code	94 + Master Code
Event Buffer	500 Events	500 Events	500 Events
Transformer Required	16.5VAC/40VA	16.5VAC/40VA	16.5VAC/40VA
Battery Required	4Ah/7Ah/14AHr	4Ah/7Ah/14AHr	4Ah/7Ah/14AHr

COMPATIBLE DEVICES

Keypads (Backward compatible with all PowerSeries keypads)
PK55XX Keypad...125mA (max.)
PTK55XX Keypad.....................300mA (activated), 400mA (Extra Power mode)
RFK55XX Keypad...135mA (max.)
LCD5511 Fixed Message LCD Keypad............85mA (max.)
LED5511Z 8-zone LED Keypad......................100mA (max.)

Cabinets
PC5003C...222x298x78mm (11.3x11.7x3.0in)
PC500C (residential burg only)........................213x235x78mm (8.4x9.25x3.0in)
PC4050CAR (UL commercial burg)................305x376x124mm (12.0x14.8x4.9in)
CMC-1 (UL commercial burg).........................287x297x76mm (11.3x11.7x3.0in)

Modules
TL-250/TL300 Communicator.................275/350mA
3G2060R Communicator (HSPA/GPRS)..............90mA
TL2603GR Communicator (HSPA/GPRS/Ethernet).........120mA
PC5100 2-wire Interface.........................40mA plus devices to 170mA max.

RF5132-433 Wireless Receiver................125mA
RF5108-433 Wireless Receiver................125mA
PC5108 Zone Expander...........................30mA
PC5200 Power Supply.............................20mA
PC5204 Power Supply with 4 Programmable Outputs........30mA
PC5208 Low Current Programmable Output Module.........50mA
Escort 5580 Telephone Interface Module.. 130m

Troubleshooting

For complete troubleshooting information, refer to the online installation guide (part number 29009349).

Testing:

- Power up system
- Program options as required (See Programming Section)
- Violate, then restore zones
- Verify correct **Reporting Codes** are sent to the Central Station

Troubleshooting:

- Press [✱][2] to view a trouble condition
- The trouble light will flash and the LCD (if equipped) will display the first trouble condition present
- On LCD keypads, use the arrow keys to scroll through all trouble conditions present. When additional information is available for a specific trouble, a [*][2] appears on the display. Press the [*] key to view the additional information.
- Refer to the **Trouble Summary** chart below to determine the trouble condition(s) present

Trouble Summary:

Light [1][✱] Service Required - Press [1] for more information

    [1] Low Battery
    [2] Bell Circuit
    [3] General System Trouble
    [4] General system Tamper
    [5] Module Supervision
    [6] RF Jam Detected
    [7] PC5204 Low Battery
    [8] PC5204 AC Failure

Light [2] AC Trouble

Light [3] Telephone Line Trouble

Light [4] Failure to Communicate

Light [5][✱] Zone Fault -Press [5] for more information

Light [6][✱] Zone Tamper - Press [6] for more information

Light [7][✱] Wireless Device Low Battery - Press [7] for more information

Light [8] Loss of Time or Date

Installation

Mount additional modules in cabinet using stand-offs, then mount cabinet in a dry area with access to unswitched AC power. Install hardware in the sequence indicated. Do NOT apply power until installation is complete.

NOTE: All circuits are classified UL power limited except the battery leads. Minimum 1/4" (6.4mm) separation must be maintained at all points between power limited and non-power limited wiring and connections.

Keybus Wiring

The 4-wire KEYBUS (red, black, yellow and green) is the communication connection between the control panel and all modules. The 4 KEYBUS terminals of all modules must be connected to the 4 KEYBUS terminals of the main control panel. The following rules must be followed when wiring the Keybus:

- Minimum 22 AWG wire, max. 18 AWG (2-wire twisted preferred)
- Do not use shielded wire
- Modules can be home run, connected in series or T-tapped, provided that the maximum wire distance from the control panel to any module does not exceed 1,000 feet (305m)
- No more than 3,000 feet (915m) of wire can be used in total
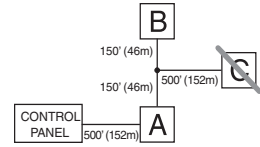
Zone Wiring

Zones can be wired for Normally Open or Normally Closed contacts, with Single-End-of-Line (SEOL) or Double End-of-Line (DEOL) resistors. Observe the following guidelines:

- For UL Listed Installations use SEOL or DEOL only
- Minimum 22 AWG wire, maximum 18 AWG
- Do not use shielded wire
- Wire run resistance shall not exceed 100Ω. Refer to the following chart.

Figures are based on maximum wiring resistance of 100Ω

- [001]-[004] Selects Zone Definition
- [013] Opt [1] Selects Normally Closed or EOL resistors
- [013] Opt [2] Selects SEOL or DEOL resistors
- [101]-[108] Opt [14], [15], [16] Selects Normally Closed, SEOL or DEOL for on-board zones (PC1832/1864, Zone 1-8; PC1616, Zones 1-6)

Burglary Zone Wiring chart

Wire Gauge	Max wire length to EOL Resistor (ft/meters)	Zone Status - Loop Resistance/Loop status
22	3000/914	**Fault** - 0Ω (shorted wire/loop)
20	4900/1493	**Secure** - 5600Ω (contact closed)
19	6200/1889	**Tamper** - infinite (broken wire, open)
18	7800/2377	**Violated** - 11,200Ω (contact open)

Bell Wiring

These terminals supply 700mA of current at 12VDC for commercial installations and 11.1-12.6VDC for residential installations (e.g., DSC SD-15 WULF). To comply with NFPA 72 Temporal Three Pattern requirements, **Program [013] Opt [8] must be ON**. Note that Steady, Pulsed alarms are also supported.

NOTE: The Bell output is supervised and power limited by 2A PTC. If unused, connect a 1000Ω resistor across Bell+ and Bell- to prevent the panel from displaying a trouble. See [✱][2].

AUX Power Wiring

The control panel can provide a maximum of 700mA of current for modules, powered detectors, relays, LEDs, etc. If the total current required exceeds 700mA, an additional power supply is required (e.g., PC5200, PC5204). Note: Min/max operating voltages for devices, sensors and modules is 9.5VDC - 14VDC.

Telephone Line Wiring

Wire the telephone connection terminals (TIP, Ring, T-1, R-1) to an RJ-31x connector. For connection of multiple devices to the telephone line, wire in the sequence indicated. Use 26 AWG wire minimum for wiring.

Telephone format is programmed in option [350]. Telephone Call Directions are programmed in options [351]-[376].
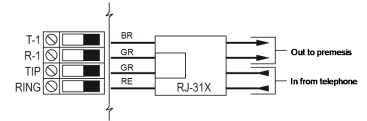
PGM Wiring

PGMs switch to ground when activated from the control panel. Connect the positive side of the device to the AUX+ Terminal. Connect the negative terminal to the PGM.

Current output is as follows: PGM 1, 3, 4.....................50mA; PGM 2.............................300mA

For current levels greater than 300mA, a relay is required. PGM2 can also be used for 2-wire smoke detectors. *NOTE: Use SEOL resistors on fire zones only.*

2-Wire Smoke Detectors Initiating Circuit

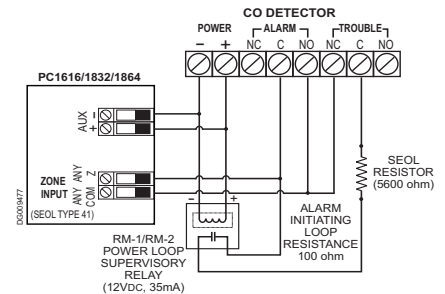|	
Style B (Class B), Supervised, Power Limited	Loop Resistance: 24Ω (MAX)
UL Compatibility Identifier: PC18-1	Standby Impedance: 1020Ω (NOM)
DC Output Voltage: 9.8-13.8 VDC	Alarm Impedance: 570Ω (MAX)
Detector Load: 2mA (MAX)	Alarm Current: 89mA (MAX)
Single End-of-Line (SEOL) Resistor: 2200Ω	

Carbon Monoxide Detector Wiring

The following hardwired CO Detector models can be used with PC1616/PC1832/PC1864 v4.5 (and higher) control panels:

- Potter Model CO-12/24, UL File E321434
- Quantum Model 12-24SIR, UL File E186246
- NAPCO Model FW-CO12 or FW-CO1224, UL File E306780
- System Sensor Model CO1224, UL File E307195

NOTE: For multiple unit connections, the leads between CO detectors must be broken. The power supervision relay must be powered from the last detector in the loop.

Wireless CO detectors are also available. When installing wireless CO detectors, use only DSC model WS4913. A DSC wireless receiver model RF5132-433 v5.1 (and higher) or DSC keypad receiver models RFK55XX-433 (xx= 00/01/08/16/64) v1.2 (and higher), or TR5164-433 are required when installing wireless CO detectors. For more details, please refer to the respective installation manuals.

Battery	AC Wiring
A sealed, rechargeable, lead acid battery or gel type battery is required to meet UL requirements for power standby times. *NOTE: UL Residential/Commercial Burglary installations require 4 hours standby battery time.* *NOTE: UL/ULC Residential Fire & Health Care installations require 24 hours standby battery time. ULC Commercial Burglary and Fire monitoring installations require 24 hours standby battery time plus 5 minutes of alarm condition.* *NOTE: UL Holdup Alarm installations require 8 hours standby battery time. Use control panel only in conjunction with 7Ah or 14Ah batteries (700mA loading on AUX output).*	**UL Listed Installations** **Primary:** 120VAC/60Hz./0.33A **Secondary:** 16.5VAC/40VA DSC PTD1640U, DSC PTC1640U, PTC1640UG(UL) / PTC1640CG (ULC) DSC PTD1640U-CC Plug-in, Class 2 Transformer. *NOTE: Use DSC PTD1640 for Canadian installations.* *Note: For UL Listed installations, do NOT connect transformer to a receptacle controlled by a switch.*

Standby Battery Guide

Battery Charging Current: 400 mA

Battery Size	Standby	
	4Hr	24Hr
4Ahr	700mA	
7Ahr	700mA	180mA
14Ahr	700mA	470mA

NOTE: Battery capacity deteriorates with age and number of charge/discharge cycles. Replace every 3-5 years.

Programming

For information on how to program, refer to the online PowerSeries Installation Manual, part number 29008247.

[000] Keypad Enrollment

Function Key Options (enter these values below in the table immediately following):

00 Not used	**09** [✱][2] Trouble Display	**18** Global Away Arming	**28** Select Partition 4
01 Select Partition 1	**10** [✱][3] Alarm Memory	**19** Command Output 3 [✱][7][3]	**29** Select Partition 5
02 Select Partition 2	**11** [✱][5] Access Code Programming	**20** For Future Use	**30** Select Partition 6
03 Stay Arm	**12** [✱][6] User Functions	**21** Command Output 4 [✱][7][4]	**31** Select Partition 7
04 Away Arm	**13** Command Output #1 [✱][7][1]	**22** Global Disarming	**32** Select Partition 8
05 [✱][9] No-Entry Arm	**14** Command Output #2 [✱][7][2]/Sensor Reset	**23** Bypass Recall	**33** For Future Use
06 [✱][4] Chime On / Off	**15** Global Stay Arming	**24** Recall Bypass Group	
07 [✱][6][——][4] System Test	**16** [✱][0] Quick Exit	**26** Time and Date	
08 [✱][1] Bypass Mode	**17** [✱][1] Reactivate Stay/Away Zones	**27** Select Partition 3	

[001]-[004] Zone Definitions (enter the values below in the table immediately following)

00 Null Zone (Not Used)	**10** 24-hr Supervisory Buzzer*	**20** 24-hr Freeze*	**32** Instant Stay/Away*
01 Delay 1*	**11** 24-hr Burglary*	**21** 24-hr Latching Tamper*	**35** 24-hr Bell/Buzzer
02 Delay 2*	**12** 24-hr Holdup*	**22** Momentary Keyswitch Arm*	**36** 24-hr Non-Latching Tamper Zone
03 Instant*	**13** 24-hr Gas*	**23** Maintained Keyswitch Arm*	**37** Night Zone
04 Interior*	**14** 24-hr Heating*	**24** For Future Use	**39** For Future Use
05 Interior, Stay/Away*	**15** 24-hr Auxiliary (Medical)*	**25** Interior/Delay*	**41** 24-hr Carbon Monoxide (hardwired)
06 Delay, Stay/Away*	**16** 24-hr Panic*	**26** 24-hr Non-alarm*	**81** 24-hr Wireless Carbon Monoxide
07 Delayed 24-hr Fire (Hardwired)**	**17** 24-hr Emergency*	**29** Auto-Verified Fire	**87** Delay 24-hr Fire (Wireless/Addressable)**
08 Standard 24-hr Fire (Hardwired)	**18** 24-hr Sprinkler*	**30** Fire Supervisory	**88** Standard 24-hr Fire (Wireless/Addressable)**
09 24-hr Supervisory	**19** 24-hr Water*	**31** Day Zone*	
*For burglary applications only	** For residential fire applications only	**26** 24-hr Non-alarm*	

Section	Zone	Def.		Section	Zone	Def.		Section	Zone	Def.		Section	Zone	Def.	
[001]	01	01	I__I__I	**[002]**	17	00	I__I__I	**[003]**	33	00	I__I__I	**[004]**	49	00	I__I__I
	02	03	I__I__I		18	00	I__I__I		34	00	I__I__I		50	00	I__I__I
	03	03	I__I__I		19	00	I__I__I		35	00	I__I__I		51	00	I__I__I
	04	03	I__I__I		20	00	I__I__I		36	00	I__I__I		52	00	I__I__I
	05	04	I__I__I		21	00	I__I__I		37	00	I__I__I		53	00	I__I__I
	06	04	I__I__I		22	00	I__I__I		38	00	I__I__I		54	00	I__I__I
	07	04	I__I__I		23	00	I__I__I		39	00	I__I__I		55	00	I__I__I
	08	04	I__I__I		24	00	I__I__I		40	00	I__I__I		56	00	I__I__I
	09	00	I__I__I		25	00	I__I__I		41	00	I__I__I		57	00	I__I__I
	10	00	I__I__I		26	00	I__I__I		42	00	I__I__I		58	00	I__I__I
	11	00	I__I__I		27	00	I__I__I		43	00	I__I__I		59	00	I__I__I
	12	00	I__I__I		28	00	I__I__I		44	00	I__I__I		60	00	I__I__I
	13	00	I__I__I		29	00	I__I__I		45	00	I__I__I		61	00	I__I__I
	14	00	I__I__I		30	00	I__I__I		46	00	I__I__I		62	00	I__I__I
	15	00	I__I__I		31	00	I__I__I		47	00	I__I__I		63	00	I__I__I
	16	00	I__I__I		32	00	I__I__I		48	00	I__I__I		64	00	I__I__I

[005] System Times

Valid entries for Entry Delay are 030-255; valid entries for Exit Delay are 045-255 for SIA CP-01.

[01] Partition 1 Entry/Exit times

Default: 030	I__I__I__I	Entry Delay 1
Default: 045	I_0_I_3_I_0_I	Entry Delay 2
Default: 120	I_0_I_6_I_0_I	Exit Delay

[05] Partition 5 Entry/Exit times

Default: 030	I__I__I__I	Entry Delay 1
Default: 045	I_0_I_3_I_0_I	Entry Delay 2
Default: 120	I_0_I_6_I_0_I	Exit Delay

[02] Partition 2 Entry/Exit times

Default: 030	I__I__I__I	Entry Delay 1
Default: 045	I_0_I_3_I_0_I	Entry Delay 2
Default: 120	I_0_I_6_I_0_I	Exit Delay

[06] Partition 6 Entry/Exit times

Default: 030	I__I__I__I	Entry Delay 1
Default: 045	I_0_I_3_I_0_I	Entry Delay 2
Default: 120	I_0_I_6_I_0_I	Exit Delay

[03] Partition 3 Entry/Exit times

Default: 030	I__I__I__I	Entry Delay 1
Default: 045	I_0_I_3_I_0_I	Entry Delay 2
Default: 120	I_0_I_6_I_0_I	Exit Delay

[07] Partition 7 Entry/Exit times

Default: 030	I__I__I__I	Entry Delay 1
Default: 045	I_0_I_3_I_0_I	Entry Delay 2
Default: 120	I_0_I_6_I_0_I	Exit Delay

[04] Partition 4 Entry/Exit times

Default: 030	I__I__I__I	Entry Delay 1
Default: 045	I_0_I_3_I_0_I	Entry Delay 2
Default: 120	I_0_I_6_I_0_I	Exit Delay

[08] Partition 8 Entry/Exit times

Default: 030	I__I__I__I	Entry Delay 1
Default: 045	I_0_I_3_I_0_I	Entry Delay 2
Default: 120	I_0_I_6_I_0_I	Exit Delay

[09] Bell Cut-Off Timer (All Partitions)

004	I__I__I__I	Enter 3 digits from 001-255

For SIA CP-01 compliant installations, the Exit Delay must be within the range of 045-255 seconds (Default 60 seconds). If the Exit Delay is silent (Section 14, Option 6 or Stay Function Key Arming), the exit delay must be twice the programmed value. It cannot, however, exceed 255 seconds (i.e., 090-255 seconds).

For UL Installations, the Entry Delay plus the Communications Delay must not exceed 60 seconds.

Exit Time Restart shall be disabled when the panel is used in combination with T-Link TL250/TL300.

[006] Installer's Code	**[007] Master Code**	**[008] Maintenance Code**
Default	Default	Default
5555 I___I___I___I___I	1234 I___I___I___I___I	AAAA I___I___I___I___I

Programmable Output Options

01 Residential Burglary and Fire Bell Output	**11** System Tamper (all sources)	**21** Command Output #3 ([*][7][3])	**32** For Future Use
02 For Future Use	**12** TLM and Alarm	**22** Command Output #4 ([*][7][4])	**33** For Future Use
03 Sensor Reset [*][7][2]	**13** Kissoff Output	**23** 24-hr Silent Input (PGM 2 Only)	**34** Away Armed with no Zone Bypassed Status
04 2-Wire Smoke Support (PGM 2 only)	**14** Ground Start Pulse	**24** 24-hr Silent Input (PGM 2 Only)	**35** Zone Follower Output (Zones 9-16)
05 System Armed Status	**15** Remote Operation (DLS Support)	**25** Delayed Fire and Burg Output	**36** Zone Follower Output (Zones 17-24)
06 Ready To Arm	**16** For Future Use	**26** Battery Test Output	**37** Zone Follower Output (Zones 25-32)
07 Keypad Buzzer Follow Mode	**17** Away Armed Status	**28** Holdup Output	**38** Zone Follower Output (Zones 33-40)
08 Courtesy Pulse	**18** Stay Armed Status	**29** Zone Follower Output (Zones 1-8)	**39** Zone Follower Output (Zones 41-48)
09 System Trouble Output (with Trouble options)	**19** Command Output #1 ([*][7][1])	**30** Partition Status Alarm Memory	**40** Zone Follower Output (Zones 49-56)
10 System Event (Strobe with Event options)	**20** Command Output #2 ([*][7][2])	**31** Alternate Communicator	**41** Zone Follower Output (Zones 57-64)

Output types [03], [04] and [20] cannot be used together on the same system.

[009] PGM1 and PGM2 Output Programming (Main Panel)

Program PGM Option Attributes in sections [501] - [502]. Program PGM partitions in sections [551] - [552]. PC1616 and PC1832 have 2 onboard PGMs (PGM 1 and 2). PC1864 has 4 on-board PGMs (PGM 1-4).

Default		Default	
19	I_____I_____I PGM 1	10	I_____I_____I PGM 2

[010] PGM3 to PGM10 Output Programming (Main Panel/PC5208)

Program PGM Option Attributes in sections [503] - [510]. Program PGM partitions in sections [553] - [560]

Default			Default			
01	I___I___I	PGM 3 (main panel/PC5208)*	01	I___I___I	PGM 7	(PC5208)
01	I___I___I	PGM 4 (main panel/PC5208)*	01	I___I___I	PGM 8	(PC5208)
01	I___I___I	PGM 5 (PC5208)	01	I___I___I	PGM 9	(PC5208)
01	I___I___I	PGM 6 (PC5208)	01	I___I___I	PGM 10	(PC5208)

These two sections above allow you to program both PGM3 and PGM4 on the main panel, and the first two PGM outputs on the PC5208. If you use both the main panel and the PC5208 outputs, PGM3 will work identically to the first PC5208 output, and PGM4 will work identically to the second PC5208 output.

[011] PGM 11 to PGM 14 Output Programming (PC5204)

Program PGM Option Attributes in sections [511] - [514]. Program PGM partitions in sections [561] - [564].

Default			Default		
01	I___I___I	PGM 11	01	I___I___I	PGM 13
01	I___I___I	PGM 12	01	I___I___I	PGM 14

[012] Keypad Lockout Options

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

Default		
000	I___I___I___I	Number of Invalid Codes Before Lockout (001-255 codes, 000 to disable)
000	I___I___I___I	Lockout Duration (000-255 minutes)

[013] First System Options

Opt	Def	ON	OFF
1	☐	Normally Closed Loops	End-of-Line Resistors
2	☐	Double End-of-Line Resistors	Single End-of-Line Resistors
3	☑	Show all Troubles when armed	Show only Fire Troubles
4	☐	Tamper/Faults not show as open	Tamper/Faults show as open
5	☑	Auto-Arm Schedule in [*][6] and installers	Auto-arm Schedule in Installer Programming Only
6	☑	Audible Exit Fault Enabled	Audible Exit Fault Disabled
7	☑	Event Buffer Follows Swinger Shutdown	Event Buffer Logs Events past Shutdown
8	☐	Temporal Three Fire Signal	Standard Pulsed Fire Signal

[014] Second System Options

Opt	Def	ON	OFF
1	☐	Arm /Disarm Bell Squawk Enabled	Arm /Disarm Bell Squawk Disabled
2	☐	Bell Squawk During Auto-Arm	No Bell Squawk During Auto-Arm
3	☐	Bell Squawk On Exit Delay	No Bell Squawk On Exit Delay
4	☐	Bell Squawk On Entry Delay	No Bell Squawk On Entry Delay
5	☐	Bell Squawk On Trouble	No Bell Squawk On Trouble
6	☑	Audible Exit with Urgency	Silent Exit Delay
7	☐	Exit Delay Termination Enabled	Exit Delay Termination Disabled
8	☐	Residential Fire Bell is Continuous	Residential Fire Bell is Cut-off

[015] Third System Options

Opt	Def	ON	OFF
1	☑	Fire Key Enabled	Fire Key Disabled
2	☐	Panic Key Audible (Bell / Beeps)	Panic Key Silent
3	☐	Quick Exit Enabled (ON for SIA CP-01)	Quick Exit Disabled
4	☑	Quick Arming Enabled (No Code Required)	Quick Arming Disabled (Code Required)
5	☐	Code Required for Bypassing	Code Not Required for Bypassing
6	☐	Master Code NOT Changeable	Master Code Changeable
7	☑	TLM Enabled	TLM Disabled
8	☐	TLM Audible (Bell) when Armed	TLM Trouble Beeps when Armed

[016] Fourth System Options

Opt	Def	ON	OFF
1	☑	AC Trouble Displayed	AC Trouble Not Displayed
2	☐	Trouble Light Flashes if AC Fails	Trouble Light does NOT follow AC Status
3	☐	Blank Keypad when Not Used	Keypad Blanking Disabled
4	☐	Code required to remove Keypad Blanking	No Code Required
5	☑	Keypad Backlighting is Enabled	Keypad Backlighting is Disabled
6	☐	Power Save Mode Enabled	Power Save Mode Disabled
7	☐	Bypass Status Displayed While Armed	Bypass Status Not Displayed While Armed
8	☐	Keypad Tampers Enabled	Keypad Tampers Disabled

[017] Fifth System Options

Opt	Def	ON	OFF
1	☑	No Access Codes For WLS Key	WLS Key Uses Access Codes
2	☐	RF Jam Log after 5 Minutes	RF Jam Log after 30 Seconds
3	☐	Audible RF Jam Trouble Beeps	Silent RF Jam Trouble Beeps
4	☐	Double Hit Enabled	Double Hit Disabled
5	☐	Late to Close Enabled	Late to Close Disabled
6	☐	Daylight Saving Time Enabled	Daylight Saving Time Disabled
7	☐	For Future Use	
8	☐	Squawk on Away Key Arming/Disarming Only	Squawk on all Arming/Disarming

[018] Sixth System Options

Opt	Def	ON	OFF
1	☐	Test Transmission Exception	No Transmission Exception
2	☐	For Future Use	
3	☐	For Future Use	
4	☐	For Future Use	
5	☐	Keypad Buzzer Follows Bell	Buzzer Does Not Follow Bell
6	☐	Cross Zoning Enabled	Police Code Enabled
7	☐	Exit Delay Restart Enabled (On for SIA CP-01)	Exit Delay Restart Disabled
8	☐	AC Trouble Beeps Enabled	AC Trouble Beeps Disabled

[019] Seventh System Options

Opt	Def	ON	OFF
1	☐	For Future Use	
2	☐	For Future Use	
3	☐	First Zone in Alarm Enabled	First Zone in Alarm Disabled
4	☐	For Future Use	
5	☐	For Future Use	
6	☐	Green Keypad LED Power Indication	Ready Indication
7	☐	[*][6] Accessible by All Users	Master Code Only
8	☐	For Future Use	

[020] Keypad Zone Assignments

Only one keypad may be assigned to a zone.

Default			Default		
00	I___I___I	Keypad (slot 1) Zone	00	I___I___I	Keypad (slot 5) Zone
00	I___I___I	Keypad (slot 2) Zone	00	I___I___I	Keypad (slot 6) Zone
00	I___I___I	Keypad (slot 3) Zone	00	I___I___I	Keypad (slot 7) Zone
00	I___I___I	Keypad (slot 4) Zone	00	I___I___I	Keypad (slot 8) Zone

Only one keypad may be assigned to a slot. Only one zone can be assigned to a keypad. Valid entries are from 01 to 64.

[021] Eighth System Options

Opt	Def	ON	OFF
1	☐	Access Code Entry Blocked During Entry Delay	Access Code Entry Not Blocked During Entry Delay
2	☐	For Future Use	
3	☐	For Future Use	
4	☐	For Future Use	
5	☐	For Future Use	
6	☐	Keyswitch Disarming During Entry Delay Only	Keyswitch Disarming at Any Time
7	☐	For Future Use	
8	☐	For Future Use	

[022] Ninth System Options

Opt	Def	ON	OFF
1	☐	Access Code Req'd for [*][1], [*][2], [*][3]	No Access Code Req'd for [*][1], [*][2], [*][3]
2	☐	For Future Use	
3	☐	For Future Use	
4	☐	Master Code Bypasses Holdup Zones Only	Any Code Bypasses Holdup Zones
5	☐	For Future Use	
6	☐	RF Delinquency enabled	RF Delinquency disabled
7	☐	For Future Use	
8	☐	Audible Exit Delay for Stay Arming	Stay Arming Silent

[023] Tenth System Options

Opt	Def	ON	OFF
1	☐	Fire Key Beeps Only	Fire Key Beeps and Sounds Bell
2	☐	For Future Use	
3	☐	Test Transmission While Armed Only	Test Transmission While Armed/Disarmed
4	☐	Test Transmission in Hours	Test Transmission in Days
5	☐	AWAY to STAY Toggle Disabled	AWAY to STAY Toggle Enabled
6	☐	2-way Audio will Not Disconnect for a New Event	2-way Audio will Disconnect for a New Event
7	☐	Trouble Beeps are Silent*	Trouble Beeps sound every 10 seconds
8	☐	Keyswitch Arm in Away Mode	Keyswitch arms in STAY or AWAY

[030] Zone Loop Response (Zones 1-8)

Opt	Def	ON	OFF
1	☐	Zone 1 is Fast Loop Response	Zone 1 is Normal Loop Response
2	☐	Zone 2 is Fast Loop Response	Zone 2 is Normal Loop Response
3	☐	Zone 3 is Fast Loop Response	Zone 3 is Normal Loop Response
4	☐	Zone 4 is Fast Loop Response	Zone 4 is Normal Loop Response
5	☐	Zone 5 is Fast Loop Response	Zone 5 is Normal Loop Response
6	☐	Zone 6 is Fast Loop Response	Zone 6 is Normal Loop Response
7	☐	Zone 7 is Fast Loop Response	Zone 7 is Normal Loop Response
8	☐	Zone 8 is Fast Loop Response	Zone 8 is Normal Loop Response

[101]-[164] Zone Attributes

Zone Attribute Defaults (Y = Option ON; N = Option OFF): **Bold entries are opposite for SIA CP-01**.

Attribute:	1	2	3	4	5	6	7	8	9
ON	Audible	Steady	Chime	Bypass	Force*	Swing	Tx. Delay	Wireless Zn	Cross Zn
OFF	Silent	Pulsed	No	No	No	No	No	No	No
Zone Type:									
00 Null Zone	N	N	N	N	N	N	N	N	N
01 Delay 1	Y	Y	Y	Y	N	Y	**N**	N	N
02 Delay 2	Y	Y	Y	Y	N	Y	**N**	N	N
03 Instant	Y	Y	Y	Y	N	Y	**N**	N	N
04 Interior	Y	Y	N	Y	N	Y	**N**	N	N
05 Int. Stay/Away	Y	Y	N	Y	Y	Y	**N**	N	N
06 Dly. Stay/Away	Y	Y	N	Y	Y	Y	**N**	N	N
07 Dly. 24hr Fire (Hardw.)	Y	N	N	N	N	N	N	N	N
08 Stand. 24hr Fire (Hardw.)	Y	N	N	N	N	N	N	N	N
09 24hr Superv.	N	Y	N	N	Y	**N**	**N**	N	N
10 24hr Superv. Buzzer	N	Y	N	Y	N	**N**	**N**	N	N
11 24hr Burglary	Y	Y	N	Y	N	**N**	**N**	N	N
12 24hr Holdup	N	Y	N	N	N	**N**	**N**	N	N
13 24hr Gas	Y	N	N	N	N	**N**	**N**	N	N
14 24hr Heating	Y	N	N	N	N	**N**	**N**	N	N
15 24hr Auxiliary (Medical)	Y	Y	N	N	N	**N**	**N**	N	N
16 24hr Panic	Y	Y	N	N	N	**N**	**N**	N	N
17 24hr Emergency	Y	Y	N	N	N	**N**	**N**	N	N
18 24hr Sprinkler	Y	Y	N	N	N	**N**	**N**	N	N
19 24hr Water	Y	Y	N	N	N	**N**	**N**	N	N
20 24hr Freeze	Y	Y	N	N	N	**N**	**N**	N	N
21 24hr Latching Tamper	Y	Y	N	N	N	**N**	**N**	N	N
22 Momentary Keyswitch	N	N	N	N	Y	N	N	N	N
23 Maintained Keyswitch	N	N	N	N	Y	N	N	N	N
25 Interior/Delay	Y	Y	N	Y	N	Y	N	N	N
26 24hr Non-alarm	N	N	N	N	Y	N	N	N	N
29 Auto Verified Fire	Y	N	N	N	N	N	N	N	N
30 Fire Supervisory	N	N	N	N	N	N	N	N	N
31 Day Zone	Y	Y	N	Y	Y	Y	Y	N	N
32 Instant Stay/Away	Y	Y	N	Y	N	**N**	**N**	N	N
35 24 hr Bell/Buzzer	Y	Y	N	Y	N	Y	**N**	N	N
36 24hr Non Latching Tamper	N	Y	N	N	N	Y	**N**	N	N
37 Night Zone	Y	Y	N	Y	Y	Y	**N**	N	N
41 24hr Carbon Monoxide	Y	N	N	N	N	N	N	N	N
81 24hr Carbon Monoxide (WLS)	Y	N	N	N	N	N	N	Y	N
87 Dly. 24hr Fire (Wireless)	Y	N	N	N	N	N	N	Y	N
88 Stand. 24hr Fire (Wireless)	Y	N	N	N	N	N	N	Y	N

Attribute:	10	11	12	13	14	15	16
ON	Attributes 10-13 for future use				NC Loops	SEOL	DEOL
OFF					Config.	Config.	Config.
Zone Type:							
00 Null Zone	N	N	N	N	N	N	N
01 Delay 1	N	N	N	N	N	N	N
02 Delay 2	N	N	N	N	N	N	N
03 Instant	N	N	N	N	N	N	N
04 Interior	N	N	N	N	N	N	N
05 Int. Stay/Away	N	N	N	N	N	N	N

Attribute:	10	11	12	13	14	15	16
06 Dly. Stay/Away	N	N	N	N	N	N	N
07 Dly. 24hr Fire (Hardw.)	N	N	N	N	N	Y	N
08 Stand. 24hr Fire (Hardw.)	N	N	N	N	N	Y	N
09 24hr Superv.	N	N	N	N	N	N	N
10 24hr Superv. Buzzer	N	N	N	N	N	N	N
11 24hr Burglary	N	N	N	N	N	N	N
12 24hr Holdup	N	N	N	N	N	N	N
13 24hr Gas	N	N	N	N	N	N	N
14 24hr Heating	N	N	N	N	N	N	N
15 24hr Medical	N	N	N	N	N	N	N
16 24hr Panic	N	N	N	N	N	N	N
17 24hr Emergency	N	N	N	N	N	N	N
18 24hr Sprinkler	N	N	N	N	N	N	N
19 24hr Water	N	N	N	N	N	N	N
20 24hr Freeze	N	N	N	N	N	N	N
21 24hr Latching Tamper	N	N	N	N	N	N	N
22 Momentary Keyswitch	N	N	N	N	N	N	N
23 Maintained Keyswitch	N	N	N	N	N	N	N
25 Interior Delay	N	N	N	N	N	N	N
26 24hr Non-alarm	N	N	N	N	N	N	N
29 Auto Verified Fire	N	N	N	N	N	N	N
30 Fire Supervisory	N	N	N	N	N	N	N
31 Day Zone	N	N	N	N	N	N	N
32 Instant Stay/Away	N	N	N	N	N	N	N
35 24hr Bell/Buzzer	N	N	N	N	N	N	N
36 24hr Non Latching Tamper	N	N	N	N	N	N	N
37 Night Zone	N	N	N	N	N	N	N
41 24hr Carbon Monoxide	N	N	N	N	N	Y	N
81 24hr Carbon Monoxide (Wireless)	N	N	N	N	N	N	N
87 Dly. 24hr Fire (Wireless)	N	N	N	N	N	N	N
88 Stand. 24hr Fire (Wireless)	N	N	N	N	N	N	N

Section	Zone #	Zone Type	Audible/ Silent 1	Steady/ Pulsed 2	Chime # 3	Bypass # 4	Force* # 5	Swing # 6	Tx. Delay # 7	Wireless # 8	Cross Zn # 9
[101]	01	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[102]	02	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[103]	03	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[104]	04	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[105]	05	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[106]	06	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[107]	07	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[108]	08	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[109]	09	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[110]	10	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[111]	11	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[112]	12	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[113]	13	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[114]	14	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[115]	15	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[116]	16	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[117]	17	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[118]	18	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[119]	19	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[120]	20	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I
[121]	21	(__)	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I	I___I

Section	Zone #	Zone Type	Audible/ Silent 1	Steady/ Pulsed 2	Chime # 3	Bypass # 4	Force* # 5	Swing # 6	Tx. Delay # 7	Wireless # 8	Cross Zn # 9
[122]	22	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[123]	23	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[124]	24	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[125]	25	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[126]	26	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[127]	27	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[128]	28	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[129]	29	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[130]	30	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[131]	31	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[132]	32	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[133]	33	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[134]	34	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[135]	35	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[136]	36	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[137]	37	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[138]	38	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[139]	39	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[140]	40	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[141]	41	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[142]	42	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[143]	43	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[144]	44	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[145]	45	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[146]	46	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[147]	47	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[148]	48	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[149]	49	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[150]	50	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[151]	51	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[152]	52	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[153]	53	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[154]	54	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[155]	55	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[156]	56	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[157]	57	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[158]	58	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[159]	59	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[160]	60	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[161]	61	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[162]	62	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[163]	63	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[164]	64	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I

Section	Zone #	Zone	Future Use 10	Future Use 11	Future Use 12	Future Use 13	NC Loops Config. 14	SEOL Config. 15	DEOL Config. 16
[101]	01	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[102]	02	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[103]	03	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[104]	04	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[105]	05	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[106]	06	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[107]	07	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[108]	08	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I

I **Record here based on programming in sections [001]-[004]. Zone attributes 10-16 only apply to zones 1-8**

[165] Maximum Dialing Attempts to Each Telephone Number

Default 005 I____I____I____I Valid entries are 001-005 attempts

For UL Listed Installations, 5 dialing attempts are required.

[166] Post Dial Wait for Handshake (All Formats)

Default 040 I____I____I____I Valid entries are 001-255 seconds

[167] TL/GS Module Wait for Acknowledgement

Default 060 I____I____I____I Valid entries are 060-255 seconds

[168] Set Clock Forward (Daylight Saving Time)

Def 003	Month	I____I____I____I	Valid Entries 001-012
Def 002	Week	I____I____I____I	Valid Entries 000-005
Def 000	Day	I____I____I____I	Valid Entries 000-031

[169] Set Clock Back (Standard Time)

Def 011	Month	I____I____I____I	Valid Entries 001-012
Def 001	Week	I____I____I____I	Valid Entries 000-005
Def 000	Day	I____I____I____I	Valid Entries 000-031

| Def 002 | Hour | I____I____I____I | Valid Entries 000-023 | Def 002 | Hour | I____I____I____I | Valid Entries 000-023 |
| Def 001 | Increment | I____I____I____I | Valid Entries 001-002 | Def 001 | Decrement | I____I____I____I | Valid Entries 001-002 |

[170] PGM Output Timer

Default 005 I____I____I____I Valid entries are 001-255 seconds

[171] Tamper PGM Output Timer

Default 000 I____I____I____I Valid entries are 000-255 minutes

[175] Auto-arm Postpone Timer

Default 000 I____I____I____I Valid entries: 001-255 minutes; 000 disables automatic arming

[176] Cross Zone/Police Code Timer

Default 060 I____I____I____I Valid entries: 001-255 seconds/minutes; 000 for armed-to-armed period for Police Code

[181]-[188] Automatic Arming Schedule

Enter a four-digit number (HH:MM) for each day that the system will Auto-Arm on each partition **[181]** for Partition 1 through **[188]** for Partition 8). All entries are disabled (9999) by default. Valid entries are 0000-2359.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
[181]	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I
[182]	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I
[183]	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I
[184]	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I
[185]	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I
[186]	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I
[187]	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I
[188]	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I	I__I__I:I__I__I

[190] No Activity Arming Pre-Alert Time

Default 001 **Partition** All I____I____I____I Valid entries are 001-255 minutes; 000 for no pre-alert

[191]-[194] No Activity Arming Timers - Default is [000] for all partitions (Valid entries are 001-255 minutes; 000 disables)

Section	Partition		Section	Partition		Section	Partition	
[191]	1	I____I____I____I	[194]	4	I____I____I____I	[197]	7	I____I____I____I
[192]	2	I____I____I____I	[195]	5	I____I____I____I	[198]	8	I____I____I____I
[193]	3	I____I____I____I	[196]	6	I____I____I____I			

[199] Auto-arming Pre-Alert Timer

Default: 004 I____I____I____I Valid entries are 001-255 minutes

[201] Partition Selection Mask

Opt	Def	ON	OFF	Opt	Def	ON	OFF
1	☑	Partition 1 is enabled	Cannot be disabled	5	☐	Partition 5 is enabled	Disabled
2	☐	Partition 2 is enabled	Disabled	6	☐	Partition 6 is enabled	Disabled
3	☐	Partition 3 is enabled	Disabled	7	☐	Partition 7 is enabled	Disabled
4	☐	Partition 4 is enabled	Disabled	8	☐	Partition 8 is enabled	Disabled

Note: For the PC1864 and PC1832, the default setting is partition 1, zones 1-16 ON. For the PC1616, the default setting is partition 1, zones 1-6 ON.

Partition 1		Partition 2		Partition 3		Partition 4	
[202] 1-8	☐☐☐☐☐☐☐☐	[210] 1-8	☐☐☐☐☐☐☐☐	[218] 1-8	☐☐☐☐☐☐☐☐	[226] 1-8	☐☐☐☐☐☐☐☐
[203] 9-16	☐☐☐☐☐☐☐☐	[211] 9-16	☐☐☐☐☐☐☐☐	[219] 9-16	☐☐☐☐☐☐☐☐	[227] 9-16	☐☐☐☐☐☐☐☐
[204] 17-24	☐☐☐☐☐☐☐☐	[212] 17-24	☐☐☐☐☐☐☐☐	[220] 17-24	☐☐☐☐☐☐☐☐	[228] 17-24	☐☐☐☐☐☐☐☐
[205] 25-32	☐☐☐☐☐☐☐☐	[213] 25-32	☐☐☐☐☐☐☐☐	[221] 25-32	☐☐☐☐☐☐☐☐	[229] 25-32	☐☐☐☐☐☐☐☐
[206] 33-40	☐☐☐☐☐☐☐☐	[214] 33-40	☐☐☐☐☐☐☐☐	[222] 33-40	☐☐☐☐☐☐☐☐	[230] 33-40	☐☐☐☐☐☐☐☐
[207] 41-48	☐☐☐☐☐☐☐☐	[215] 41-48	☐☐☐☐☐☐☐☐	[223] 41-48	☐☐☐☐☐☐☐☐	[231] 41-48	☐☐☐☐☐☐☐☐
[208] 49-56	☐☐☐☐☐☐☐☐	[216] 49-56	☐☐☐☐☐☐☐☐	[224] 49-56	☐☐☐☐☐☐☐☐	[232] 49-56	☐☐☐☐☐☐☐☐
[209] 57-64	☐☐☐☐☐☐☐☐	[217] 57-64	☐☐☐☐☐☐☐☐	[225] 57-64	☐☐☐☐☐☐☐☐	[233] 57-64	☐☐☐☐☐☐☐☐
Partition 5		**Partition 6**		**Partition 7**		**Partition 8**	
[234] 1-8	☐☐☐☐☐☐☐☐	[242] 1-8	☐☐☐☐☐☐☐☐	[250] 1-8	☐☐☐☐☐☐☐☐	[258] 1-8	☐☐☐☐☐☐☐☐
[235] 9-16	☐☐☐☐☐☐☐☐	[243] 9-16	☐☐☐☐☐☐☐☐	[251] 9-16	☐☐☐☐☐☐☐☐	[259] 9-16	☐☐☐☐☐☐☐☐
[236] 17-24	☐☐☐☐☐☐☐☐	[244] 17-24	☐☐☐☐☐☐☐☐	[252] 17-24	☐☐☐☐☐☐☐☐	[260] 17-24	☐☐☐☐☐☐☐☐
[237] 25-32	☐☐☐☐☐☐☐☐	[245] 25-32	☐☐☐☐☐☐☐☐	[253] 25-32	☐☐☐☐☐☐☐☐	[261] 25-32	☐☐☐☐☐☐☐☐
[238] 33-40	☐☐☐☐☐☐☐☐	[246] 33-40	☐☐☐☐☐☐☐☐	[254] 33-40	☐☐☐☐☐☐☐☐	[262] 33-40	☐☐☐☐☐☐☐☐
[239] 41-48	☐☐☐☐☐☐☐☐	[247] 41-48	☐☐☐☐☐☐☐☐	[255] 41-48	☐☐☐☐☐☐☐☐	[263] 41-48	☐☐☐☐☐☐☐☐
[240] 49-56	☐☐☐☐☐☐☐☐	[248] 49-56	☐☐☐☐☐☐☐☐	[256] 49-56	☐☐☐☐☐☐☐☐	[264] 49-56	☐☐☐☐☐☐☐☐
[241] 57-64	☐☐☐☐☐☐☐☐	[249] 57-64	☐☐☐☐☐☐☐☐	[257] 57-64	☐☐☐☐☐☐☐☐	[265] 57-64	☐☐☐☐☐☐☐☐

[301] First Telephone Number (32 Digits)

I_D_I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I

Note: Please refer to Section [350] Communicator Formats. Only SIA and Contact ID are valid alternate communicator formats. Programming any other format will send SIA by default.

[302] Second Telephone Number (32 Digits)

I_D_I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I

[303] Third Telephone Number (32 Digits)

I_D_I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I

Section [310] System Account Code [FFFFFF]   I_____I_____I_____I_____I_____I_____I

Enter a four-digit account number for each active partition.

[311] Partition 1 Account Number	I____I____I____I____I	[315] Partition 5 Account Number	I____I____I____I____I
[312] Partition 2 Account Number	I____I____I____I____I	[316] Partition 6 Account Number	I____I____I____I____I
[313] Partition 3 Account Number	I____I____I____I____I	[317] Partition 7 Account Number	I____I____I____I____I
[314] Partition 4 Account Number	I____I____I____I____I	[318] Partition 8 Account Number	I____I____I____I____I

For a complete list of all reporting code sections, refer to the online PowerSeries Installation Manual (part no. 29008247)

[320]-[323] Alarm Reporting Codes, Zones 01-64 ⓘ*All Reporting Codes defaulted to FF unless otherwise indicated.*

[320]	Zone 01 I_I_I	Zone 02 I_I_I	Zone 03 I_I_I	Zone 04 I_I_I	Zone 05 I_I_I	Zone 06 I_I_I	Zone07 I_I_I	Zone 08 I_I_I
	Zone 09 I_I_I	Zone 10 I_I_I	Zone 11 I_I_I	Zone 12 I_I_I	Zone 13 I_I_I	Zone 14 I_I_I	Zone 15 I_I_I	Zone 16 I_I_I
[321]	Zone 17 I_I_I	Zone 18 I_I_I	Zone 19 I_I_I	Zone 20 I_I_I	Zone 21 I_I_I	Zone 22 I_I_I	Zone 23 I_I_I	Zone 24 I_I_I
	Zone 25 I_I_I	Zone 26 I_I_I	Zone 27 I_I_I	Zone 28 I_I_I	Zone 29 I_I_I	Zone 30 I_I_I	Zone 31 I_I_I	Zone 32 I_I_I
[322]	Zone 33 I_I_I	Zone 34 I_I_I	Zone 35 I_I_I	Zone 36 I_I_I	Zone 37 I_I_I	Zone 38 I_I_I	Zone 39 I_I_I	Zone 40 I_I_I
	Zone 41 I_I_I	Zone 42 I_I_I	Zone 43 I_I_I	Zone 44 I_I_I	Zone 45 I_I_I	Zone 46 I_I_I	Zone 47 I_I_I	Zone 48 I_I_I
[323]	Zone 49 I_I_I	Zone 50 I_I_I	Zone 51 I_I_I	Zone 52 I_I_I	Zone 53 I_I_I	Zone 54 I_I_I	Zone 55 I_I_I	Zone 56 I_I_I
	Zone 57 I_I_I	Zone 58 I_I_I	Zone 59 I_I_I	Zone 60 I_I_I	Zone 61 I_I_I	Zone 62 I_I_I	Zone 63 I_I_I	Zone 64 I_I_I

[324]-[327] Alarm Restoral Reporting Codes, Zones 01-64

[324]	Zone 01 I_I_I	Zone 02 I_I_I	Zone 03 I_I_I	Zone 04 I_I_I	Zone 05 I_I_I	Zone 06 I_I_I	Zone07 I_I_I	Zone 08 I_I_I
	Zone 09 I_I_I	Zone 10 I_I_I	Zone 11 I_I_I	Zone 12 I_I_I	Zone 13 I_I_I	Zone 14 I_I_I	Zone 15 I_I_I	Zone 16 I_I_I
[325]	Zone 17 I_I_I	Zone 18 I_I_I	Zone 19 I_I_I	Zone 20 I_I_I	Zone 21 I_I_I	Zone 22 I_I_I	Zone 23 I_I_I	Zone 24 I_I_I
	Zone 25 I_I_I	Zone 26 I_I_I	Zone 27 I_I_I	Zone 28 I_I_I	Zone 29 I_I_I	Zone 30 I_I_I	Zone 31 I_I_I	Zone 32 I_I_I
[326]	Zone 33 I_I_I	Zone 34 I_I_I	Zone 35 I_I_I	Zone 36 I_I_I	Zone 37 I_I_I	Zone 38 I_I_I	Zone 39 I_I_I	Zone 40 I_I_I
	Zone 41 I_I_I	Zone 42 I_I_I	Zone 43 I_I_I	Zone 44 I_I_I	Zone 45 I_I_I	Zone 46 I_I_I	Zone 47 I_I_I	Zone 48 I_I_I
[327]	Zone 49 I_I_I	Zone 50 I_I_I	Zone 51 I_I_I	Zone 52 I_I_I	Zone 53 I_I_I	Zone 54 I_I_I	Zone 55 I_I_I	Zone 56 I_I_I
	Zone 57 I_I_I	Zone 58 I_I_I	Zone 59 I_I_I	Zone 60 I_I_I	Zone 61 I_I_I	Zone 62 I_I_I	Zone 63 I_I_I	Zone 64 I_I_I

[328] Miscellaneous Alarm Reporting Codes

Duress Alarm	I____I____I
Opening After Alarm	I____I____I
Recent Closing	I____I____I
Zone Expander Supervisory Alarm	I____I____I
Zone Expander Supervisory Restore	I____I____I
Cross Zone Police Code Alarm	I____I____I
Burglary Not Verified	I____I____I
Alarm Cancelled	I____I____I

[329] Priority Alarm and Restoral

Keypad Fire Alarm	I____I____I
Keypad Auxiliary Alarm	I____I____I
Keypad Panic Alarm	I____I____I
Auxiliary Input Alarm	I____I____I
Keypad Fire Restoral	I____I____I
Keypad Auxiliary Restoral	I____I____I
Keypad Panic Restoral	I____I____I
Auxiliary Input Restore	I____I____I

[330]-[333] Tamper Reporting Codes, Zones 01-64

[330]	Zone 01 I_I_I	Zone 02 I_I_I	Zone 03 I_I_I	Zone 04 I_I_I	Zone 05 I_I_I	Zone 06 I_I_I	Zone07 I_I_I	Zone 08 I_I_I
	Zone 09 I_I_I	Zone 10 I_I_I	Zone 11 I_I_I	Zone 12 I_I_I	Zone 13 I_I_I	Zone 14 I_I_I	Zone 15 I_I_I	Zone 16 I_I_I
[331]	Zone 17 I_I_I	Zone 18 I_I_I	Zone 19 I_I_I	Zone 20 I_I_I	Zone 21 I_I_I	Zone 22 I_I_I	Zone 23 I_I_I	Zone 24 I_I_I
	Zone 25 I_I_I	Zone 26 I_I_I	Zone 27 I_I_I	Zone 28 I_I_I	Zone 29 I_I_I	Zone 30 I_I_I	Zone 31 I_I_I	Zone 32 I_I_I
[332]	Zone 33 I_I_I	Zone 34 I_I_I	Zone 35 I_I_I	Zone 36 I_I_I	Zone 37 I_I_I	Zone 38 I_I_I	Zone 39 I_I_I	Zone 40 I_I_I
	Zone 41 I_I_I	Zone 42 I_I_I	Zone 43 I_I_I	Zone 44 I_I_I	Zone 45 I_I_I	Zone 46 I_I_I	Zone 47 I_I_I	Zone 48 I_I_I
[333]	Zone 49 I_I_I	Zone 50 I_I_I	Zone 51 I_I_I	Zone 52 I_I_I	Zone 53 I_I_I	Zone 54 I_I_I	Zone 55 I_I_I	Zone 56 I_I_I
	Zone 57 I_I_I	Zone 58 I_I_I	Zone 59 I_I_I	Zone 60 I_I_I	Zone 61 I_I_I	Zone 62 I_I_I	Zone 63 I_I_I	Zone 64 I_I_I

[334]-[337] Tamper Restoral Reporting Codes, Zones 01-64

[334]	Zone 01 I_I_I	Zone 02 I_I_I	Zone 03 I_I_I	Zone 04 I_I_I	Zone 05 I_I_I	Zone 06 I_I_I	Zone07 I_I_I	Zone 08 I_I_I
	Zone 09 I_I_I	Zone 10 I_I_I	Zone 11 I_I_I	Zone 12 I_I_I	Zone 13 I_I_I	Zone 14 I_I_I	Zone 15 I_I_I	Zone 16 I_I_I
[335]	Zone 17 I_I_I	Zone 18 I_I_I	Zone 19 I_I_I	Zone 20 I_I_I	Zone 21 I_I_I	Zone 22 I_I_I	Zone 23 I_I_I	Zone 24 I_I_I
	Zone 25 I_I_I	Zone 26 I_I_I	Zone 27 I_I_I	Zone 28 I_I_I	Zone 29 I_I_I	Zone 30 I_I_I	Zone 31 I_I_I	Zone 32 I_I_I
[336]	Zone 33 I_I_I	Zone 34 I_I_I	Zone 35 I_I_I	Zone 36 I_I_I	Zone 37 I_I_I	Zone 38 I_I_I	Zone 39 I_I_I	Zone 40 I_I_I
	Zone 41 I_I_I	Zone 42 I_I_I	Zone 43 I_I_I	Zone 44 I_I_I	Zone 45 I_I_I	Zone 46 I_I_I	Zone 47 I_I_I	Zone 48 I_I_I
[337]	Zone 49 I_I_I	Zone 50 I_I_I	Zone 51 I_I_I	Zone 52 I_I_I	Zone 53 I_I_I	Zone 54 I_I_I	Zone 55 I_I_I	Zone 56 I_I_I
	Zone 57 I_I_I	Zone 58 I_I_I	Zone 59 I_I_I	Zone 60 I_I_I	Zone 61 I_I_I	Zone 62 I_I_I	Zone 63 I_I_I	Zone 64 I_I_I

[338] Miscellaneous Tamper Reporting Codes

General System Tamper	I____I____I	Keypad Lockout	I____I____I	General System Tamper Rest.	I____I____I

[339]-[340] Closing (Arming) Reporting Codes, Access Codes 1-32

[339]	Zone 01 I_I_I	Zone 02 I_I_I	Zone 03 I_I_I	Zone 04 I_I_I	Zone 05 I_I_I	Zone 06 I_I_I	Zone07 I_I_I	Zone 08 I_I_I
	Zone 09 I_I_I	Zone 10 I_I_I	Zone 11 I_I_I	Zone 12 I_I_I	Zone 13 I_I_I	Zone 14 I_I_I	Zone 15 I_I_I	Zone 16 I_I_I
[340]	Zone 17 I_I_I	Zone 18 I_I_I	Zone 19 I_I_I	Zone 20 I_I_I	Zone 21 I_I_I	Zone 22 I_I_I	Zone 23 I_I_I	Zone 24 I_I_I
	Zone 25 I_I_I	Zone 26 I_I_I	Zone 27 I_I_I	Zone 28 I_I_I	Zone 29 I_I_I	Zone 30 I_I_I	Zone 31 I_I_I	Zone 32 I_I_I

[341] Miscellaneous Closing (Arming) Reporting Codes

Future Use	I____I____I	Future Use	I____I____I	Automatic Zone Bypass	I_0_I_0_I	Special Closing	I____I____I	Exit Fault	I____I____I
Future Use	I____I____I	Future Use	I____I____I	Partial Closing	I____I____I	Late to Close	I____I____I		

[342]-[343] Opening (Disarming) Reporting Codes, Access Codes 1-32

[342]	Zone 01 I_I_I	Zone 02 I_I_I	Zone 03 I_I_I	Zone 04 I_I_I	Zone 05 I_I_I	Zone 06 I_I_I	Zone07 I_I_I	Zone 08 I_I_I
	Zone 09 I_I_I	Zone 10 I_I_I	Zone 11 I_I_I	Zone 12 I_I_I	Zone 13 I_I_I	Zone 14 I_I_I	Zone 15 I_I_I	Zone 16 I_I_I
[343]	Zone 17 I_I_I	Zone 18 I_I_I	Zone 19 I_I_I	Zone 20 I_I_I	Zone 21 I_I_I	Zone 22 I_I_I	Zone 23 I_I_I	Zone 24 I_I_I
	Zone 25 I_I_I	Zone 26 I_I_I	Zone 27 I_I_I	Zone 28 I_I_I	Zone 29 I_I_I	Zone 30 I_I_I	Zone 31 I_I_I	Zone 32 I_I_I

[344] Miscellaneous Opening (Disarming) Reporting Codes

Future Use	I____I____I	Future Use	I____I____I	Future Use	I____I____I	Auto Arm Cancellation/Postpone	I____I____I
Future Use	I____I____I	Future Use	I____I____I	Future Use	I____I____I	Special Opening	I____I____I

[345] Maintenance Alarm Reporting Codes

Battery Trouble Alarm	I____I____I
AC Failure Trouble Alarm	I____I____I
Bell Circuit Trouble Alarm	I____I____I
Fire Trouble Alarm	I____I____I
Aux Power Supply Trouble Alarm	I____I____I
TLM Trouble Code	I____I____I
General System Trouble	I____I____I
General System Supervisory	I____I____I
For Future Use	I____I____I

[346] Maintenance Restoral Reporting Codes

Battery Trouble Restoral	I____I____I
AC Failure Trouble Restoral	I____I____I
Bell Circuit Trouble Restoral	I____I____I
Fire Trouble Restoral	I____I____I
Aux Power Supply Trouble Restoral	I____I____I
TLM Restoral	I____I____I
General System Trouble Restoral	I____I____I
General System Supervisory Restoral	I____I____I
Cold Start	I____I____I

[347] Miscellaneous Maintenance Reporting Codes

Telephone Number 1 FTC Restore	I____I____I
Telephone Number 2 FTC Restore	I____I____I
Event Buffer 75% Full Since Last Upload	I____I____I
DLS Lead IN	I___0___I___0___I
DLS Lead OUT	I___0___I___0___I
Zone Fault Alarm	I____I____I
Zone Fault Restore	I____I____I
Delinquency Code	I____I____I
General Zone Low Battery Alarm	I____I____I
General Zone Low Battery Restoral	I____I____I
Installer Lead Out	I___0___I___0___I
Installer Lead In	I___0___I___0___I

[348] Test Transmission Reporting Codes

Walk Test End	I____I____I
Walk Begin	I____I____I
Periodic Test Transmission with Trouble	I____I____I
Periodic Test Transmission	I____I____I
System Test	I____I____I
For Future Use	I____I____I

[349] PC5700 Maintenance Reporting Codes (only available in Canada)

PC5700 Ground Fault Trouble	I____I____I	PC5700 TLM Line 1 Restore	I____I____I
PC5700 Ground Fault Restore	I____I____I	PC5700 TLM Line 2 Trouble	I____I____I
PC5700 TLM Line 1 Trouble	I____I____I	PC5700 TLM Line 2 Restore	I____I____I

[350] Communicator Format Options

Default	04	I____I____I	1st Telephone Number
Default	04	I____I____I	2nd Telephone Number

01 20 BPS, 1400 HZ handshake	**05** Pager	**08** 10 BPS, 2300Hz handshake
02 20 BPS, 2300 HZ handshake	**06** Residential Dial**	**09-13** For Future Use
03 DTMF CONTACT ID	**07** 10 BPS, 1400Hz handshake	
04 SIA FSK	**Failure to communicate using Residential Dial will not generate a Failed To Communicate Trouble.	

[351]-[358] Alarm/Restore Communicator Call Directions

		Option 1	Option 2	Option 3	Option 4	Option 5	Options 6,7,8
Section	Partition	1st Telephone Number (Def ON)	2nd Telephone Number (Def OFF)	Not Used	Not Used	Alt Comm (Def ON)	Not Used
[351]	1	I____I	I____I	I____I	I____I	I____I	I____I
[352]	2	I____I	I____I	I____I	I____I	I____I	I____I
[353]	3	I____I	I____I	I____I	I____I	I____I	I____I
[354]	4	I____I	I____I	I____I	I____I	I____I	I____I
[355]	5	I____I	I____I	I____I	I____I	I____I	I____I
[356]	6	I____I	I____I	I____I	I____I	I____I	I____I
[357]	7	I____I	I____I	I____I	I____I	I____I	I____I
[358]	8	I____I	I____I	I____I	I____I	I____I	I____I

[359]-[366] Tamper/Restore Communicator Call Directions

		Option 1	Option 2	Option 3	Option 4	Option 5	Options 6,7,8
Section	Partition	1st Telephone Number (Def ON)	2nd Telephone Number (Def OFF)	Not Used	Not Used	Alt Comm (Def ON)	Not Used
[359]	1	I____I	I____I	I____I	I____I	I____I	I____I
[360]	2	I____I	I____I	I____I	I____I	I____I	I____I
[361]	3	I____I	I____I	I____I	I____I	I____I	I____I
[362]	4	I____I	I____I	I____I	I____I	I____I	I____I
[363]	5	I____I	I____I	I____I	I____I	I____I	I____I
[364]	6	I____I	I____I	I____I	I____I	I____I	I____I
[365]	7	I____I	I____I	I____I	I____I	I____I	I____I
[366]	8	I____I	I____I	I____I	I____I	I____I	I____I

[367]-[374] Opening/Closing Communicator Call Directions

		Option 1	Option 2	Option 3	Option 4	Option 5	Options 6,7,8
Section	Partition	1st Telephone Number (Def ON)	2nd Telephone Number (Def OFF)	Not Used	Not Used	Alt Comm (Def ON)	Not Used
[367]	1	I____I	I____I	I____I	I____I	I____I	I____I
[368]	2	I____I	I____I	I____I	I____I	I____I	I____I
[369]	3	I____I	I____I	I____I	I____I	I____I	I____I
[370]	4	I____I	I____I	I____I	I____I	I____I	I____I
[371]	5	I____I	I____I	I____I	I____I	I____I	I____I
[372]	6	I____I	I____I	I____I	I____I	I____I	I____I
[373]	7	I____I	I____I	I____I	I____I	I____I	I____I
[374]	8	I____I	I____I	I____I	I____I	I____I	I____I

[375] System Maintenance Communicator Call Directions

Option 1	Option 2	Option 3	Option 4	Option 5	Options 6,7,8
1st Telephone Number (Def ON)	2nd Telephone Number (Def OFF)	Not Used	Not Used	Alt Comm (Def ON)	Future Use
I_____I	I_____I	I_____I	I_____I	I_____I	I_____I

[376] System Test Transmissions Communicator Call Directions

Option 1	Option 2	Option 3	Option 4	Option 5	Options 6,7,8
1st Telephone Number (Def ON)	2nd Telephone Number (Def OFF)	Not Used	Not Used	Alt Comm (Def ON)	Future Use
I_____I	I_____I	I_____I	I_____I	I_____I	I_____I

[377] Communication Variables

The values in gray are required for CP-01 compliant systems.

Default

Default		Description	Range
003	I_0_I_0_I_1_I	Swinger Shutdown (Alarms and Rest)	001-014 Transmissions; 000=disabled
003	I_0_I_0_I_3_I	Swinger Shutdown (Tampers and Rest)	001-014 Transmissions; 000=disabled
003	I_0_I_0_I_3_I	Swinger Shutdown (Maintenance and Rest)	001-014 Transmissions; 000=disabled
000	I_0_I_3_I_0_I	Communication Delay*	000-255 seconds
030	I_0_I_3_I_0_I	AC Failure Communication Delay	001-255 hours/minutes**; 000=disabled
010	I_0_I_1_I_0_I	TLM Trouble Delay	No. of checks required - valid entries 003 - 255
030	I_0_I_3_I_0_I	Test Transmission Cycle (land line)	001-255 days/minutes***
030	I_0_I_3_I_0_I	For Future Use	
007	I_0_I_0_I_7_I	Zone Low Battery Transmission Delay	000-255 days
030	I_0_I_3_I_0_I	Delinquency Transmission Cycle	000-255 days/hours****
000	I_0_I_0_I_5_I	Communications Cancelled Window	000-255 minutes

* For UL installations, the Entry Delay plus Communication Delay time must not exceed 60 seconds.

Dependent on programming in **[382], Option [6]. ***Dependent on programming in **[702]**, Option [3]. ****Dependent on programming in **[380]**, Option [8].

[378] Test Transmission Time of Day

Default

9999	I____I____I____I____I	Valid entries: 0000-2359 (9999=disable)

[379] Periodic DLS Time of Day

Default

9999	I____I____I____I____I	Valid entries: 0000-2359 (9999)=Random; FFFF= disable

[380] First Communicator Options

Opt	Def	ON	OFF
1	☑	Communications Enabled	Communications Disabled
2	☐	Restorals on Bell Time-out	Restorals Follow Zones
3	☐	Pulse Dialing	DTMF Dialing
4	☐	Pulse Dialing on 5th Attempt	DTMF Dial For All Attempts
5	☐	3rd Telephone Number Enabled	3rd Telephone Number Disabled
6	☐	Alternate Dial (1st & 3rd)	Call 1st Number, Back up to 3rd
7	☐	For Future Use	
8	☐	Delinquency Follows Zone Activity (Hours)	Delinquency Follows Arming (Days)

[381] Second Communicator Options

Opt	Def	ON	OFF
1	☐	Communications Enabled	Communications Disabled
2	☐	Restorals on Bell Time-out	Restorals Follow Zones
3	☐	Pulse Dialing	DTMF Dialing
4	☐	Pulse Dialing on 5th Attempt	DTMF Dial For All Attempts
5	☑	3rd Telephone Number Enabled	3rd Telephone Number Disabled
6	☑	Alternate Dial (1st & 3rd)	Call 1st Number, Back up to 3rd
7	☐	For Future Use	
8	☐	Delinquency Follows Zone Activity (Hours)	Delinquency Follows Arming (Days)

[382] Third Communicator Options

Opt	Def	ON	OFF
1	☐	For Future Use	
2	☐	Alarm Communications Enabled During Walk Test*	Alarm Communications Disabled During Walk Test
3	☐	Communication Cancelled Message Enabled (ON for SIA CP-01)	Communication Cancelled Message Disabled
4	☐	Call Waiting Cancel Enabled**	Call Waiting Cancel Disabled
5	☐	T-Link Interface Enabled	T-Link Interface Disabled
6	☐	AC Failure Transmission Delay in Hours	AC Failure Transmission Delay in Minutes
7	☐	Number of Dialing Attempt for Residential Dial is 1	Residential Dial Follows Dialing Attempts Counter
8	☐	For Future Use	

[383] Fourth Communicator Options

Opt	Def	ON	OFF
1	☐	Account Code Follows Phone Number	Account Code Follows Partition
2	☐	For Future Use	
3	☐	For Future Use	
4	☐	For Future Use	
5	☐	For Future Use	
6	☐	For Future Use	
7	☐	For Future Use	
8	☐	For Future Use	

*This option must remain OFF for SIA CP-01 installations.

** A Call Waiting Cancel on a non-Call Waiting line will prevent successful connection to the central station.

[389] TL/GS Module Fault Check Timer

Default: 003 I_____I_____I_____I Enter no. of checks X 3 seconds - valid entries 002 to 255

[401] Downloading Option Codes

Opt	Def	ON	OFF
1	☐	Answering Machine/Double Call enabled	Answering Machine/Double Call disabled
2	☐	User Can Enable DLS Window	User Cannot Enable DLS Window
3	☐	Call Back enabled	Call Back disabled
4	☐	User Initiated Call Up enabled	User Initiated Call Up disabled
5	☐	Auto Event Buffer Upload enabled	Auto Event Buffer Upload disabled
6	☐	300 Baud Call Up	110 Baud Call Up
7	☐	For Future Use	
8	☐	For Future Use	

[402] DLS Downloading Telephone Number (32 Digits)

I_D_I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I____I

[403]-[404] DLS Downloading Access Code / Panel ID Code (Enter 6 Hexadecimal Digits)

Panel	Default	[403] Downloading Access Code	[404] Panel ID Code
PC1616	161600	I_____I_____I_____I_____I_____I_____I	I_____I_____I_____I_____I_____I_____I
PC1832	183200	I_____I_____I_____I_____I_____I_____I	I_____I_____I_____I_____I_____I_____I
PC1864	186400	I_____I_____I_____I_____I_____I_____I	I_____I_____I_____I_____I_____I_____I

[405] Answering Machine Double Call Timer

Default 060 I_____I_____I_____I(001-255 seconds)

[406] Number of Rings to Answer On

Default 000 I_____I_____I_____I (000-255 rings)

[499] Initiate PC-Link Downloading

Enter [499][Installer Code][499]

[501]- [554] Programmable Output Attributes

Program only the following attributes for the PGM options listed. All others will be ignored. PGM options are programmed in [009], [010] & [011]. PGM Attribute Defaults (Y = Attribute ON; N = Attribute OFF; Blank = Attribute not available):

Attribute:	1	2	3	4	5	6	7	8
ON	Not used	Not used	True Output	Follows Timer	Code Req.	Not used	Not used	Not used
OFF	—	—	Inverted	On / Off	No Code Req.	—	—	—
PGM Option								
[01] Residential Burglary / Fire Bell Output			Y					
[02] For Future Use								
[03] Sensor Reset [*][7][2]			Y					
[04] 2-Wire Smoke Support (PGM2 only)			Y					
[05] System Armed Status			Y					
[06] Ready To Arm			Y					
[07] Keypad Buzzer Follower Mode			Y					
[08] Courtesy Pulse			Y					
[11] System Tamper (all sources)			Y					
[12] TLM and Alarm			Y					
[13] Kiss-off Output			Y	Y				
[14] Ground Start Pulse			Y	Y				
[15] Remote Operation (DLS Support)			Y	Y				
[16] For Future Use			Y					
[17] Away Armed Status			Y					
[18] Stay Armed Status			Y					
[19] Command Output #1, [*][7][1]			Y	Y	Y			
[20] Command Output #2, [*][7][2]			Y	Y	N			
[21] Command Output #3, [*][7][3]			Y	Y	N			
[22] Command Output #4, [*][7][4]			Y	Y	N			
[23] 24-hr Silent Input (PGM2 only)			Y					
[24] 24-hr Audible Input (PGM2 only)			Y					
[25] Delayed Burglary & Fire Output			Y					
[26] Battery Test Output			Y					
[28] Holdup Output			Y					
[30] Partition Status Alarm Memory Output			Y					
[33] For Future Use								
[34] Away Armed with no Zone Bypassed Status			Y					

Attribute: PGM Option		1	2	3	4	5	6	7	8
	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
	ON	Fire Alarm	Panic Alarm	Burglary Alarm	Open/Close	Zone Auto Bypass	Medical Alarm	Police Code	Active When true
	OFF	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Latched
[31] Alternate Communicator		N	N	N	N	N	N	N	N
	ON	Future Use	Future Use	True Output	Future Use	Future Use	Future Use	Future Use	AND Logic
	OFF			Inverted					OR Logic
[29], [35]-[41] Zone Follower		N	N	Y	N	N	N	N	N

Section	PGM #	Output Type*	1	2	3	4	5	6	7	8
Main Board										
[501]	1	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[502]	2	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
Main Board/ PC5208										
[503] **	3	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[504] **	4	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I

*Record here based on programming in [009], [010] and [011].

** These sections allow you to program both PGM3 and PGM4 on the main panel, and the first two PGM outputs on the PC5208. If you use both the main panel and the PC5208 outputs, PGM3 will work identically to the first PC5208 output, and PGM4 will work identically to the second PC5208 output.

Section	PGM #	Output Type*	1	2	3	4	5	6	7	8
PC5208										
[505]	5	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[506]	6	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[507]	7	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[508]	8	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[509]	9	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[510]	10	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
PC5204										
[511]	11	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[512]	12	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[513]	13	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[514]	14	(__)	I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I

*Record here based on programming in [009], [010] and [011].

[551]-[564] PGM Output Partition Assignment

Section	PGM #	Partition	1	2	3	4	5	6	7	8
Main Board										
[551]	1		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[552]	2		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
Main Board/PC5208										
[553]	3		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[554]	4		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
PC5208										
[555]	5		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[556]	6		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[557]	7		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[558]	8		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[559]	9		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[560]	10		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
PC5204										
[561]	11		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[562]	12		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[563]	13		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I
[564]	14		I__I	I__I	I__I	I__I	I__I	I__I	I__I	I__I

Zone Follower PGM Zone Assignment

If a Zone Follower PGM type 29, 35-41 is used, the PGM output partition assignment is treated as a PGM output zone assignment. Each Zone Follower PGM applies to a different bank of zones, as in the following table.

	Option:	1	2	3	4	5	6	7	8
[29] Zone Follower (1-8)		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
[35] Zone Follower (9-16)		Zone 9	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
[36] Zone Follower (17-24)		Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
[37] Zone Follower (25-32)		Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
[38] Zone Follower (33-40)		Zone 33	Zone 34	Zone 35	Zone 36	Zone 37	Zone 38	Zone 39	Zone 40
[39] Zone Follower (41-48)		Zone 41	Zone 42	Zone 43	Zone 44	Zone 45	Zone 46	Zone 47	Zone 48
[40] Zone Follower (49-56)		Zone 49	Zone 50	Zone 51	Zone 52	Zone 53	Zone 54	Zone 55	Zone 56
[41] Zone Follower (57-64)		Zone 57	Zone 58	Zone 59	Zone 60	Zone 61	Zone 62	Zone 63	Zone 64

[601]-[604] Closing (Arming) Reporting Codes, Access Codes 33-95

[601]	Code 33 I_I_I	Code 34 I_I_I	Code 35 I_I_I	Code 36 I_I_I	Code 37 I_I_I	Code 38 I_I_I	Code 39 I_I_I	Code 40 I_I_I
	Code 41 I_I_I	Code 42 I_I_I	Code 43 I_I_I	Code 44 I_I_I	Code 45 I_I_I	Code 46 I_I_I	Code 47 I_I_I	Code 48 I_I_I
[602]	Code 49 I_I_I	Code 50 I_I_I	Code 51 I_I_I	Code 52 I_I_I	Code 53 I_I_I	Code 54 I_I_I	Code 55 I_I_I	Code 56 I_I_I
	Code 57 I_I_I	Code 58 I_I_I	Code 59 I_I_I	Code 60 I_I_I	Code 61 I_I_I	Code 62 I_I_I	Code 63 I_I_I	Code 64 I_I_I
[603]	Code 65 I_I_I	Code 66 I_I_I	Code 67 I_I_I	Code 68 I_I_I	Code 69 I_I_I	Code 70 I_I_I	Code 71 I_I_I	Code 72 I_I_I
	Code 73 I_I_I	Code 74 I_I_I	Code 75 I_I_I	Code 76 I_I_I	Code 77 I_I_I	Code 78 I_I_I	Code 79 I_I_I	Code 80 I_I_I
[604]	Code 81 I_I_I	Code 82 I_I_I	Code 83 I_I_I	Code 84 I_I_I	Code 85 I_I_I	Code 86 I_I_I	Code 87 I_I_I	Code 88 I_I_I
	Code 89 I_I_I	Code 90 I_I_I	Code 91 I_I_I	Code 92 I_I_I	Code 93 I_I_I	Code 94 I_I_I	Code 95 I_I_I	

[605]-[608] Opening (Disarming) Reporting Codes, Access Codes 33-95

[605]	Code 33 I_I_I	Code 34 I_I_I	Code 35 I_I_I	Code 36 I_I_I	Code 37 I_I_I	Code 38 I_I_I	Code 39 I_I_I	Code 40 I_I_I
	Code 41 I_I_I	Code 42 I_I_I	Code 43 I_I_I	Code 44 I_I_I	Code 45 I_I_I	Code 46 I_I_I	Code 47 I_I_I	Code 48 I_I_I
[606]	Code 49 I_I_I	Code 50 I_I_I	Code 51 I_I_I	Code 52 I_I_I	Code 53 I_I_I	Code 54 I_I_I	Code 55 I_I_I	Code 56 I_I_I
	Code 57 I_I_I	Code 58 I_I_I	Code 59 I_I_I	Code 60 I_I_I	Code 61 I_I_I	Code 62 I_I_I	Code 63 I_I_I	Code 64 I_I_I
[607]	Code 65 I_I_I	Code 66 I_I_I	Code 67 I_I_I	Code 68 I_I_I	Code 69 I_I_I	Code 70 I_I_I	Code 71 I_I_I	Code 72 I_I_I
	Code 73 I_I_I	Code 74 I_I_I	Code 75 I_I_I	Code 76 I_I_I	Code 77 I_I_I	Code 78 I_I_I	Code 79 I_I_I	Code 80 I_I_I
[608]	Code 81 I_I_I	Code 82 I_I_I	Code 83 I_I_I	Code 84 I_I_I	Code 85 I_I_I	Code 86 I_I_I	Code 87 I_I_I	Code 88 I_I_I
	Code 89 I_I_I	Code 90 I_I_I	Code 91 I_I_I	Code 92 I_I_I	Code 93 I_I_I	Code 94 I_I_I	Code 95 I_I_I	

[681]-[688] Automatic Disarming Schedule

Enter a four-digit number (HH:MM) for each day that the system will auto-disarm for each partition ([681] for Partition 1 through [688] for Partition 8). Valid entries are 0000-2359. All entries are disabled (9999) by default.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
[681]	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|
[682]	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|
[683]	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|
[684]	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|
[685]	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|
[686]	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|
[687]	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|
[688]	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|	|__|__:|__|__|

[691]-[698] Auto-Disarm Holiday Schedule

Enter a six-digit number (MM:DD:YY) for each day that the system will skip auto-disarm for each partition ([691] for Partition 1 through [698] for Partition 8). Program [99][99][99] to disable Auto-Disarm schedule. All entries are disabled by default.

[691]

Holiday 1	Holiday 2	Holiday 3	Holiday 4	Holiday 5	Holiday 6	Holiday 7
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|
Holiday 8	Holiday 9	Holiday 10	Holiday 11	Holiday 12	Holiday 13	Holiday 14
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|

[692]

Holiday 1	Holiday 2	Holiday 3	Holiday 4	Holiday 5	Holiday 6	Holiday 7
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|
Holiday 8	Holiday 9	Holiday 10	Holiday 11	Holiday 12	Holiday 13	Holiday 14
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|

[693]

Holiday 1	Holiday 2	Holiday 3	Holiday 4	Holiday 5	Holiday 6	Holiday 7
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|
Holiday 8	Holiday 9	Holiday 10	Holiday 11	Holiday 12	Holiday 13	Holiday 14
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|

[694]

Holiday 1	Holiday 2	Holiday 3	Holiday 4	Holiday 5	Holiday 6	Holiday 7
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|
Holiday 8	Holiday 9	Holiday 10	Holiday 11	Holiday 12	Holiday 13	Holiday 14
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|

[695]

Holiday 1	Holiday 2	Holiday 3	Holiday 4	Holiday 5	Holiday 6	Holiday 7
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|
Holiday 8	Holiday 9	Holiday 10	Holiday 11	Holiday 12	Holiday 13	Holiday 14
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|

[696]

Holiday 1	Holiday 2	Holiday 3	Holiday 4	Holiday 5	Holiday 6	Holiday 7
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|
Holiday 8	Holiday 9	Holiday 10	Holiday 11	Holiday 12	Holiday 13	Holiday 14
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|

[697]

Holiday 1	Holiday 2	Holiday 3	Holiday 4	Holiday 5	Holiday 6	Holiday 7
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|
Holiday 8	Holiday 9	Holiday 10	Holiday 11	Holiday 12	Holiday 13	Holiday 14
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|

[698]

Holiday 1	Holiday 2	Holiday 3	Holiday 4	Holiday 5	Holiday 6	Holiday 7
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|
Holiday 8	Holiday 9	Holiday 10	Holiday 11	Holiday 12	Holiday 13	Holiday 14
|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|	|__:__:__|

[700] Automatic Clock Adjust

Default: 60 \|_____\|_____\| Valid Entries 00-99 Seconds

[701] First International Options

Opt	Def	ON	OFF
1	☐	50 Hz AC	60 Hz AC
2	☐	Time Base - Internal Crystal	Time Base - AC Line
3	☐	AC/DC Arming Inhibit Enabled	AC/DC Arming Inhibit Disabled
4	☐	System Tampers Require Installer Reset	System Tampers Follow Restore
5	☐	6-digit User Access Codes	4-digit User Access Codes
6	☐	Busy Tone Detection Enabled	Busy Tone Detection Disabled
7	☐	High Current Battery Charge	Standard Current Battery Charge
8	☐	DLS/Audio has no priority	DLS/Audio has priority

[702] Second International Options

Opt	Def	ON	OFF
1	☐	Pulse Dialing Make/Break Ratio is 33/67	Pulse Dialing Make/Break Ratio is 40/60
2	☐	Force Dialing Enabled	Force Dialing Disabled
3	☐	Land Line Test Transmission in Minutes	Land Line Test Transmission in Days
4	☐	1600 Hz Handshake	Standard Handshake
5	☐	ID Tone Enabled	ID Tone Disabled
6	☐	2100 Hz ID Tone	1300 Hz ID Tone
7	☐	One-Time 1-hr User Enabled DLS Window	Full 6-hr User Enabled DLS Window
8	☐	Bell on FTC when Armed	FTC Trouble only when Armed

[703] Delay Between Dialing Attempts

Default: 003 \|_____\|_____\|_____\| Valid Entries 000-255 sec.

[801] PC5400 Printer Module Programming

Refer to the PC5400 *Installation Manual* for installation and programming instructions.

[802] PC59xx VOX Module Programming

Refer to the PC59xx *Installation Manual* for installation and programming instructions.

[804] Wireless Expansion Programming

Refer to the RF5132/RFK55xx *Installation Manual* for programming locations and instructions.

[805] PC5100 Programming

Refer to the PC5100 *Installation Manual* for programming locations and instructions.

[851] TL/GS Module Programming

Refer to the TL/GS *Installation Manual* for programming locations and instructions.

Special Installer Functions

[898] Wireless Enrollment

[899] Template Programming

[900] Panel Version Displayed

[901] Installer Walk Test Mode Enable/Disable

[902] Module Supervision Reset

[903] Module Supervision Field

[904] Wireless Module Placement Test

[905] - [909] Future Use

[989] Default Master Code

[990] [Installer Code][990] Installer Lockout Enable

[991] [Installer Code][991] Installer Lockout Disable

[992] Future Use

[993] [Installer Code][993] Restore Alternate Comm to Default Programming

[994] Future Use

[995] [Installer Code][995] Restore Escort 5580 to Default Programming

[996] [Installer Code][996] Restore RF5132 to Default Programming

[997] [Installer Code][997] Restore PC5400 to Default Programming

[998] [Installer Code][998] Restore PC59xx to Default Programming

[999] [Installer Code][999] Restore Control Panel to Default Programming

Appendix B: UL Listed Commercial and Residential Installations

The control panel model PC1616/PC1832/PC1864 has been tested and found in compliance with following standard:

UL1610	Central Station Burglar Alarm Units
UL365	Police Station Connected Burglar Alarm Units and Systems
UL1023	Household Burglar Alarm System Units
UL985	Household Fire Warning Systems Units
UL1635	Digital Alarm Communicator System Units
ULC-S304-06	Signal Receiving Center & Premise Burglar Alarm Control Units
ULC-S559-04	Equipment for Fire Signal Receiving Centers and Systems
ULC-S545-02	Residential Fire Warning System Control Units
ORD-C1023-1974	Household Burglar Alarm System Units

This product has also been tested and found in compliance with the ANSI/SIA CP-01-2000 Control Panel Standard - Features for False Alarm Reduction

AMCX/AMCXC	Central Stations Alarm Units
APAW	Police Station-connected Alarm Units
DAYRC	Central Station Fire Alarm System Units
UTOU/UTOUC	Control Units and Accessories, Household System Type
NBSX/NBSXC	Household Burglar Alarm System Units
AMTB	Control Panels, SIA False Alarm Reduction

The product is labeled with the UL and ULC listing marks along with the SIA CP-01 compliance statement (Also Classified in accordance with SIA-CP-01 Standard) as proof of compliance with the above mentioned standards. For further information on this product's listings please also refer to the official listing guides published at the UL web site (www.ul.com) under Certifications Section or ULC web site (www.ulc.ca) under Online Directories

UL/ULC Installations Required Programming Options
• All burglary-type zones shall be configured with SEOL or DEOL configuration (refer to section [013], option 1 shall be OFF)
• Use at least one Smoke Detector for Fire Installations (refer to section [001], fire zone shall be programmed as type 08 (hardwired) or 88 (wireless))
• The entry delay shall not exceed 60 seconds (refer to section [005])
• The exit delay shall not exceed 120 seconds (refer to section [005])
• The minimum Bell Time-out is 4 minutes (refer to section [005])
For ULC Residential Fire Installations the minimum Bell Time-out is 5 min.
For UL Home Health Care Installations, minimum Bell Time-out is 5 min.
For UL Commercial Burglary Installations minimum Bell Time-out is 15 min.
• Temporal Three Fire Signal shall be enabled (Section [013], option 8 shall be ON)
• Arm/Disarm Bell Squawk shall be enabled when using wireless key WS4939 (refer to section [014], option 1 shall be ON)
• A code will be required for bypassing (Section [015], option 5 shall be ON)
• Trouble beeps shall be enabled (Section [023], option 7 shall be ON)
• AC trouble indication LED shall be enabled (refer to Keypad Programming, section [075], options 5 and 6 shall be ON)
• DACT Communicator shall be enabled for Supervising Station Monitoring (refer to section [380], option 1 shall be ON).

The DACT communicator for this product has no line security.
• Telephone Line Monitoring (TLM) shall be enabled (refer to section [015] option 7 shall be ON)
The product shall be programmed to perform 5 (min.) to 10 (max.) attempts for communication of an event to the supervising station. If unsuccessful, a Fail To Communicate (FTC) trouble is generated.
• Test transmission cycle shall be set for monthly transmission (see Section [377])

For ULC Residential/Commercial installations set for daily test transmission
UL Central Station and Police Connect with Standard or Encrypted Line Security Service
• The installation must use the T-Link TL250 or T-Link TL300 Internet/Intranet communicator which communicates over LAN/WAN/Internet to the SG-System II or SG-System II receivers.
• Polling time shall be 200 seconds and compromise detection time shall be 6 min.
• For Encrypted line security applications, the T-Link TL250 or TL300 shall have the Encryption Key enabled (AES128 bit encryption algorithm is validated under NIST Certificate No. 109).

UL Local, Central Station and Police Connect with No Line Security Service
• The installation shall use a Bell which is UL Listed for Mercantile local alarms (i.e. AMSECO MBL10B with model AB-12 bell housing.
• The digital communicator shall be enabled
• The control panel shall be in the attack resistant enclosure DSC Model CMC-1 or PC4050CAR

UL Home Health Care Signaling Equipment
• There must be at least two keypads, one of either one of the compatible keypads models PK5500, PK5501, PK5508, PK5516
• Each system shall be programmed to activate an audible Trouble signal within 90 seconds upon loss of microprocessor memory

ULC Central Station Fire and Burglary Monitoring Installations
• For installation requirements, levels of security, communication modules and configurations (Refer to the ULC Installation Information Sheet, DSC #29002157)
• Use a CSA/cUL approved transformer (hardwired connections required for Fire Monitoring)
• All tamper circuits may be connected to the same zone

Programming
The notes in the programming sections describing the system configurations for UL/ULC listed installations shall be implemented

Control of the Protected Premises
In order to have a UL certificated system the protected are is to be under the responsibility of one ownership and management (i.e., one business under one name). This may be a group of buildings attached or unattached with different addresses but under the responsibility of someone having mutual interest. The person of the mutual interest is not the alarm-installing company.

Bell Location
The alarm sounding device (bell) shall be located where it can be heard by the person operating the security system during the daily arming and disarming cycle.

Protection of the Control Unit
The local control unit and the local power supply must be protected in one of the following ways:
• The control unit and audible alarm device must be in a protected area which is armed 24 hours a day.
• Each partition must arm the area protecting the control unit and the audible alarm device power supply. This may require duplicate protection armed by each partition. Access to this protected area, without causing and alarm, will require that all partitions be disarmed.
• In all cases described above, the protected area for the control unit must be programmed as not-bypassable.

Casual Users
The installer should caution the user(s) not to give system information (e.g. codes, bypass methods, etc.) to casual users (baby-sitters or service people). Only the One-Time Use codes shall be given to casual users.

User Information
The installer should advise the users and note in the User's Manual:
• Service organization name and telephone number
• The programmed exit time
• The programmed entry time
• Test system weekly
• The installer's code cannot arm or disarm the system

SIA False Alarm Reduction Installations
Minimum required system consists of one Control unit model PC1864 or PC1832 or PC1616 and any one of the compatible listed keypads: PK5500, PK5501, PK5508, PK5516, PKP-LCD, PKP-ICN. For a list of the defaults value programmed when the unit is shipped from the factory and for any other programming information refer to Appendix C: False Alarm Reduction.
The following optional subassembly modules also bear the SIA CP-01-2000 classification and may be used if desired: PC5108 Zone Expander, PC5208 PGM Output Module, PC5204 Auxiliary Power Supply and PC5400 Serial Output Module.

CAUTION
• For SIA FAR installations use only modules/devices that are listed on this page

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• Fire Alarm Verification feature (Auto Verified Fire Zone type [29]) is not supported on 2-wire smoke detectors zones. This feature may be enabled for 4-wire smoke detectors only . The fire alarm delay is 60s.
• Call Waiting Cancel (Section [382], Option 4) feature on a non-Call Waiting line will prevent successful communication to the supervising station.
• All smoke detectors on the system must be tested annually by conducting the Installer Walk Test. Prior to exiting the walk test mode, a sensor reset must be conducted on the system, [*][7][2] to reset all latching 4-wire smoke detectors. Please refer to the smoke detector installation instructions on how to correctly test the detectors.

NOTES
• Programming at installation may be subordinate to other UL requirements for the intended application
• Cross zones have the ability to individually protect the intended area (e.g. motion detectors which overlap)
• Cross zoning is not recommended for line security Installations nor is to be implemented on exit/entry zones.
• There is a communication delay of 30 seconds in this control panel. It can be removed, or it can be increased up to 45 seconds at the option of the end user by consulting with the installer.
• Do not duplicate any reporting codes. This applies for all communication formats other than SIA or CID sending automatic programmed reporting codes.
• The security system shall be installed with the sounding device activated and the communicator enabled for transmission using SIA or CID format.

The control panel model PC1864/PC1832/PC1616 has also been tested and found in compliance with UL636 Standard for Holdup Alarm Units and Systems and is UL listed under the ANET category when used in conjunction with the DSC Model WS4928 Holdup switch and the compatible wireless receiver model DSC RF5132-433. For UL listed systems containing the UL holdup switch, the Force Arm (bit 5) zone attribute for Holdup zone (type 12) shall be enabled (ON).

Locating Detectors and Escape Plan
The following information is for general guidance only. Consult local fire codes and regulations when locating and installing smoke and CO alarms.

Smoke Detectors

Research shows that all hostile fires in homes generate smoke to some extent. Experiments with fire in homes indicate that detectable quantities of smoke precede detectable levels of heat in most cases. For these reasons, install smoke alarms outside of each sleeping area and on each storey of the home.

The following information is for general guidance only. Consult local fire codes and regulations when locating and installing smoke alarms. Additional smoke alarms beyond those required for minimum protection are recommended. Additional areas to protect include: the basement; bedrooms, especially where smokers sleep; dining rooms; furnace and utility rooms; and any hallways not protected by other units. On smooth ceilings, detectors may be spaced 9.1m (30 feet) apart as a guide. Other spacing may be required depending on ceiling height, air movement, the presence of joists, uninsulated ceilings, etc. Consult National Fire Alarm Code NFPA 72, CAN/ULC-S553-02 or other appropriate national standards for installation recommendations.
• Do not locate smoke detectors at the top of peaked or gabled ceilings; the dead air space in these locations may prevent the unit from detecting smoke.
• Avoid areas with turbulent air flow, such as near doors, fans or windows. Rapid air movement around the detector may prevent smoke from entering the unit.
• Do not locate detectors in areas of high humidity.
• Do not locate detectors in areas where the temperature rises above 38ºC (100ºF) or falls below 5ºC (41ºF).
• In the USA, install smoke detectors in accordance with Chapter 11 of NFPA 72, the National Fire Alarm Code: 11.5.1.1.

Where required by applicable laws, codes, or standards for a specific type of occupancy, approved single- and multiple-station smoke alarms shall be installed as follows:
1. In all sleeping rooms and guest rooms.
2. Outside of each separate dwelling unit sleeping area, within 6.4 m (21 ft) of any door to a sleeping room, the distance measured along a path of travel.
3. On every level of a dwelling unit, including basements.
4. On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics.
5. In the living area(s) of a guest suite.
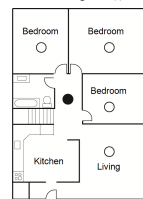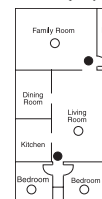6. In the living area(s) of a residential board and care occupancy (small facility).
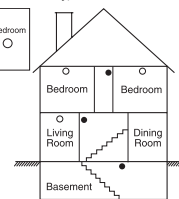

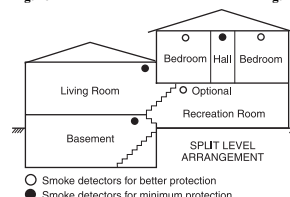Figure 1   Figure 2   Figure 3

Figure 3a   Figure 4

○ Smoke detectors for better protection
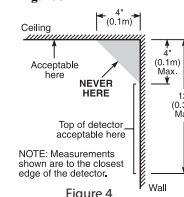● Smoke detectors for minimum protection

Carbon Monoxide Detectors

Carbon monoxide is colorless, odorless, tasteless, and toxic. It also moves freely in the air. CO detectors measure the concentration and sound an alarm before potentially harmful levels are reached. The human body is most vulnerable to the effects of CO gas during sleeping hours; therefore, CO detectors should be located in or as near as possible to sleeping areas of the home. For maximum protection, a CO alarm should be located outside primary sleeping areas or on each level of your home. Figure 5 shows suggested locations in the home.

Do NOT place the CO alarm in the following areas:
• Where the temperature may drop below -10ºC or exceed 40ºC
• Near paint thinner fumes
• Within 5 feet (1.5m) of open flame appliances (furnaces, stoves fireplaces)
• In exhaust streams from gas engines, vents, flues or chimneys
• Do not place near automobile exhaust; this will damage the detector

Please refer to the CO detector installation and operating instructions for safety and emergency information.
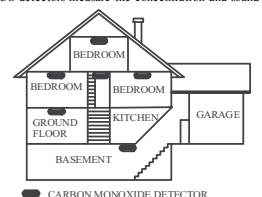
SIA False Alarm Reduction Installations: Quick Reference

SIA Feature Programming Section	Comments	Range/Default	Requirement
Exit Time - [005], 3rd entry	Access to Entry and Exit delays for each partition and Bell Time Out for the system	For Full or auto arming: **Range:** 45-255 seconds **Default:** 60 sec.	Required (programmable)
Progress Annunciation/ Disable - for Silent Exit - [014], Option 6 ON	Enables audible exit beeps from the keypad for the duration of exit delay	Individual keypads may be disabled **Default:** All Enabled	Allowed
Exit Time Restart - [018], Option 7 ON	Enables the exit delay restart feature	**Default:** Enabled	Required
Auto Stay Arm on Unvacated Premises - [001]-[004] Zone type 05, 06	Function Key: Stay Arming. All Stay/Away type zones (05, 06) will be automatically bypassed	If no exit after full arm **Default:** Enabled	Required
Exit Time and Progress Annunciation/Disable or Remote Arming - [005] and [014] bit 6	System Times and Audible Exit beeps can be disabled when using the Key fob to away arm the system	**Default:** Enabled	Allowed
Entry Delay(s) - [005], 1st and 2nd entry	Access to Entry and Exit delays for each partition and Bell Time Out for the system. **NOTE:** Combined Entry delay and Communications Delay (Abort Window) shall not exceed 60s	**Range:** 30 sec. to 4 min. **Default:** 30 sec.	Required (programmable)
Abort Window for Non-Fire zones - [101]-[164] bit 7 ON	Access to zone attributes, i.e, swinger shutdown, transmission delay and cross zone. Individual zones attribute bit 7 (Transmission delay) is by default ON	May be disabled by zone or zone type **Default:** Enabled	Required
Abort Window - for Non-Fire zones - [377], 4th entry	Access to the programmable delay before communicating alarms. **NOTE:** Combined Entry delay and Communications Delay (Abort Window) shall not exceed 60s	**Range:** 15 - 45 sec. **Default:** 30 sec.	Required (programmable)
Abort Annunciation - [382], Option 3 ON	Enables the "Communication Cancelled" message display on all keypads	Annunciate that no alarm was transmitted **Default:** Enabled	Required
Cancel Annunciation - [328], 8th entry	Access to the reporting code for Alarm Cancelled	Annunciate that a Cancel was transmitted **Default:** Enabled	Required
Duress Feature - [*][5] Master Code - [99] Option 2 ON	Do not derive code from an existing Master/User code (e.g., Master code is 1234, the duress code should not be 1233 or 1235)	No 1+/- derivative of another user code. No duplicates with other user codes **Default:** disabled	Allowed
Cross Zoning - [018] Option 6 ON [101]-[164] bit 9 OFF	This option enables Cross Zoning for entire system. Individual zones can be enabled for Cross zoning via Zone attribute bit 9 in sections [101] - [164]	Programming required **Default:** Disabled	Required
Cross Zone Timer - [176]	Access to the programmable Cross Zone timer	May program Range: 001-255 sec. **Default:** 60 secs	Allowed
Swinger Shutdown for Alarms [377] 1st entry	Access to the swinger shutdown limit for zone alarms	For all non-fire zones shut down at 1 or 2 trips **Default:** 1 Trip	Required (programmable)
Swinger Shutdown Disable - [101] - [164] bit 6 ON	Access to zone attributes, i.e., swinger shutdown, transmission delay and cross zone. Individual zones attribute bit 6 (Swinger shutdown enabled) is by default ON	For non-police response zones **Default:** Enabled	Allowed
Fire Alarm Verification - Zone Type [29]	Auto Verified Fire, use only with 4 wire type detectors that can be reset by the panel 4-wire smoke detector powered from AUX + and PGM1 - PGM4 (type 03, Sensor reset)	70 seconds reset and confirmation time **Default:** disabled	Required
Call Waiting Cancel Dial String - [304], [382], Opt. 4 OFF	Access to the dialing sequence used to disable call waiting	Dependant on user phone line **Default:** disabled	Required
Testing			
System Test: [*][6] Master Code, Option 4	The system activates all keypad sounders, bells or sirens for 2 seconds and all keypad lights turn on. Refer to the User Manual (part no. 29008261)		
Installer Walk Test Mode: [901]	This mode is used to test each zone on the system for proper functionality		
Alarm Communications During Walk Test [382] Opt. 2	Enables Communication of zone alarms while installer Walk Test is active		
Walk Test End and Begin Reporting Codes [348], 1st and 2nd Entries	Access to the reporting codes for Walk Test Begin and Walk Test End		

Regulatory Approvals

FCC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved by Digital Security Controls could void your authority to use this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be deter-mined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4.

IMPORTANT INFORMATION

This equipment complies with Part 68 of the FCC Rules. On the side of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this number must be provided to the Telephone Company.

PC1864 Product Identifier US: F53AL01BPC1864

PC1832 Product Identifier US: F53AL01BPC1832

PC1864 Product Identifier US: F53AL01BPC1616

REN: 0.1B

USOC Jack: RJ-31X

Telephone Connection Requirements

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

Ringer Equivalence Number (REN)

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local Telephone Company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format. US: AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

Incidence of Harm

If this equipment PC1864/PC1832/PC1616 causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the Telephone Company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

Changes in Telephone Company Equipment or Facilities

The Telephone Company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the Telephone Company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

### Equipment Maintenance Facility

If trouble is experienced with this equipment PC1864/PC1832/PC1616 for repair or warranty information, please contact the facility indicated below. If the equipment is causing harm to the telephone network, the Telephone Company may request that you disconnect the equipment until the problem is solved. This equipment is of a type that is not intended to be repaired by the end user.

DSC c/o Tyco Atlanta Distribution Center, 2600 West Pointe Dr., Lithia Springs, GA 30122

Additional Information

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

Alarm dialling equipment must be able to seize the telephone line and place a call in an emergency situation. It must be able to do this even if other equipment (telephone, answering system, computer modem, etc.) already has the telephone line in use. To do so, alarm dialling equipment must be connected to a properly installed RJ-31X jack that is electrically in series with and ahead of all other equipment attached to the same telephone line. Proper installation is depicted in the figure below. If you have any questions concerning these instructions, you should consult your telephone company or a qualified installer about installing the RJ-31X jack and alarm dialling equipment for you.

Customer Premises Equipment and Wiring
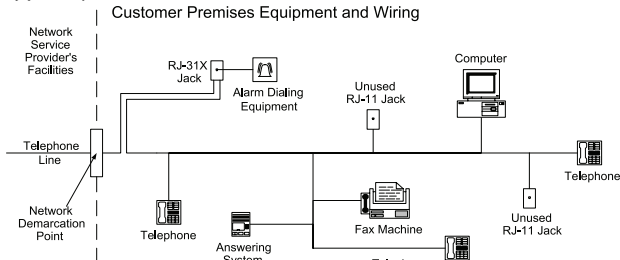
INDUSTRY CANADA STATEMENT

NOTICE: This Equipment, PC1864/PC1832/PC1616, meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

NOTICE: The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all devices does not exceed five.

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

PC1616 Registration number IC: 160A-PC1616

PC1832 Registration number IC: 160A-PC1832

PC1864 Registration number IC: 160A-PC1864

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Limited Warranty

Digital Security Controls warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original purchaser must promptly notify Digital Security Controls in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period. There is absolutely no warranty on software and all software

products are sold as a user license under the terms of the software license agreement included with the product. The Customer assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from DSC. Custom products are only warranted to the extent that they do not function upon delivery. In such cases, DSC can replace or credit at its option.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Digital Security Controls shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Digital Security Controls such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Digital Security Controls Ltd.);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Items Not Covered by Warranty

In addition to the items which void the Warranty, the following items shall not be covered by Warranty: (i) freight cost to the repair centre; (ii) products which are not identified with DSC's product label and lot number or serial number; (iii) products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify any warranty claim. Access cards or tags returned for replacement under warranty will be credited or replaced at DSC's option. Products not covered by this warranty, or otherwise out of warranty due to age, misuse, or damage shall be evaluated, and a repair estimate shall be provided. No repair work will be performed until a valid purchase order is received from the Customer and a Return Merchandise Authorization number (RMA) is issued by DSC's Customer Service.

Digital Security Controls Ltd.'s liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Digital Security Controls be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property. The laws of some jurisdictions limit or do not allow the disclaimer of consequential damages. If the laws of such a jurisdiction apply to any claim by or against DSC, the limitations and disclaimers contained here shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to you.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) and of all other obligations or liabilities on the part of Digital Security Controls. Digital Security Controls neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

WARNING: Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Out of Warranty Repairs

Digital Security Controls will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Digital Security Controls determines to be repairable will be repaired and returned. A set fee which Digital Security Controls has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Digital Security Controls determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

WARNING - READ CAREFULLY

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

Inadequate Installation

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a security system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

Power Failure

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

Failure of Replaceable Batteries

This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

Compromise of Radio Frequency (Wireless) Devices

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

System Users

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm.

Smoke Detectors

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building.

Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.

Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbeques, fireplaces, sunlight, steam vents, lighting and so on.

Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings.

Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

Inadequate Testing

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

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WARNING: DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this SOFTWARE PRODUCT to fail to perform as expected.

Safety Instructions for Service Persons

Warning: When using equipment connected to the telephone network, always follow the basic safety instructions provided with this product. Save these instructions for future reference. Inform the end-user of the safety precautions that must be observed when operating this equipment.

Before Installing The Equipment

Ensure your package includes the following items:

• Installation and User manuals, including the SAFETY INSTRUCTIONS. READ and SAVE these instructions! Follow all WARNINGS AND INSTRUCTIONS specified within this document and/or on the equipment.
• PC1864/PC1832/PC1616 alarm controller
• Power Supply, direct plug-in

Selecting A Suitable Location For The Alarm Controller

Use the following list as a guide to find a suitable location to install this equipment:

• Locate near a telephone socket and power outlet.
• Select a location free from vibration and shock.
• Place alarm controller on a flat, stable surface and follow the installation instructions.

Do NOT locate this product where the secondary circuit cable(s) may be walked on.

Do NOT connect alarm controller to the same electrical circuit as large appliances.

Do NOT locate your alarm controller near direct sunlight, excessive heat, moisture, vapors, chemicals or dust.

Do NOT install this equipment near water. (e.g., bath tub, kitchen/laundry sink, wet basement, near a swimming pool).

Do NOT install this equipment in areas where risk of explosion exists.

Do NOT connect this equipment to electrical outlets controlled by wall switches or automatic timers.

AVOID interference sources.

AVOID installing equipment near heaters, air conditioners, ventilators, and refrigerators.

AVOID locating equipment close to or on top of large metal objects.

See "Locating Detectors and Escape Plan" on page 17 for information on locating smoke and CO detectors.

SAFETY Precautions Required During Installation

• NEVER install this equipment and/or telephone wiring during a storm.
• NEVER touch uninsulated telephone wires or terminals unless the phone line has been disconnected at the network interface.
• Position cables so that accidents can not occur. Connected cables must NOT be subject to excessive mechanical strain.
• Use only the power supply provided with this equipment. Use of unauthorized power supplies may cause damage.
• For direct plug-in versions, use the transformer supplied with the device.

WARNING: THIS EQUIPMENT HAS NO MAINS ON/OFF SWITCH. THE PLUG OF THE DIRECT PLUG-IN POWER SUPPLY IS INTENDED TO SERVE AS THE DISCONNECTING DEVICE IF THE EQUIPMENT MUST BE QUICKLY DISCONNECTED. IT IS IMPERATIVE THAT ACCESS TO THE MAINS PLUG AND ASSOCIATED MAINS SOCKET/OUTLET IS NEVER OBSTRUCTED.

IMPORTANT NOTE!

This alarm system must be installed and used within an environment that provides the pollution degree max 2 and over-voltages category II NON-HAZARDOUS LOCATIONS, indoor only. The equipment is DIRECT PLUG-IN (external transformer) and is designed to be installed, serviced and/or repaired by service persons only; [service person is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and of measures to minimize the risks to that person or other persons]. There are no parts replaceable by the end-user within this equipment. The wiring (cables) used for installation of the alarm system and accessories, shall be insulated with PVC, TFE, PTFE, FEP, Neoprene or Polyamide.

(a) The enclosure must be secured to the building structure before operation.

(b) Internal wiring must be routed in a manner that prevents:

- Excessive strain or loosening of wire on terminal connections;

- Damage of conductor insulation

(c) Disposal of used batteries must be made in accordance with local waste recovery and recycling regulations.

(d) Before servicing, DISCONNECT the power and telephone connection.

(e) DO NOT route any wiring over circuit boards.

(f) The installer must ensure that a readily accessible disconnect device is incorporated in the building for permanently connected installations.

The power supply must be Class II, FAIL SAFE with double or reinforced insulation between the PRIMARY and SECONDARY CIRCUIT/ENCLOSURE and be an approved type acceptable to the local authorities. All national wiring rules must be observed.

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