

# PC1616/PC1832/PC1864 v4.5 AUS

## Installation Guide

**PowerSeries™**  
SECURITY SYSTEM



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**WARNING:** This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.

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# Section 1: Product Specifications

## Control and Indicating Equipment Specifications

### Zone Configuration

- 36 zone types, 12 programmable zone attributes
- Zone configurations available: normally closed, single EOL and DEOL supervised
- Hardwired zone expansion (fully supervised) available using the Model PC5108 (eight Zone Expander Module)
- One zone input available on the keypads
- Wireless zone expansion (fully supervised) available using the Model RF5132 (RF Receiver, operating at 433MHz)
- 2 independent partitions (Max.) available for PC1616
- 4 independent partitions (Max.) available for PC1832
- 8 independent partitions (Max.) available for PC1864
- 8 separate keypads (Max.)

### Access Codes

- Up to 97 access codes: 94 user (level 2), one system master code (level 3), one installer code (level 3), and one maintenance code
- Programmable attributes for each user code
- 1,000,000 access code variations (using 6-digit codes)
- Duress codes derived from user codes +/- 1 digit are not allowed

### Warning Device Output

- Rated 12VDC, 700mA, supervised (EOL resistor shall be used)
- Programmable as steady, pulsed or temporal three (as per ISO 8201) output
- Fire alarm notification has priority over burglary alarm notification

### Memory

- CMOS EEPROM memory
- Retains programming and system status on AC or battery failure
- Data Retention: 20 years (minimum)

### Programmable Outputs (PGMs)

- Up to 14 programmable outputs (PGM) with 38 options
- PGM outputs are open collector type and switched to ground
- One high current (300mA) output with 2-wire smoke detector capability on the main control board (PGM2)
- Eight additional low current outputs (50mA) available using the Model PC5208
- Four high current outputs (500mA) available using the Model PC5204

### Power Supply

- 1.7A regulated, supervised and integral to the control unit
- Type A as per EN50131-6 Standard
- Input ratings: 220V-240Vac, 50/60Hz, 200mA
- Transformer required, mounted in the same enclosure, permanently connected
- Transformer secondary ratings: 16.5Vac, 40VA min.
- AUX Output Voltage: 12Vdc, -15%/+10% when AC Input Voltage is 85% to +110% of rated value and output current is 0.0A - 0.5A max.
- Output ripple voltage: 270mVp-p max.
- Storage device: Rechargeable battery, rated 12VDC
- Battery capacity: 4Ah, 7Ah, 14Ah (2 x 7Ah) or 24 Ah (2 x 12Ah)
- Maximum standby time 24Ah (when using 14Ah battery capacity and AUX current limited to 480mA max.). Refer to Installation, Section 2.10 Battery
- Recharging time 48h
- Programmable recharging current: Low 400mA, High 700mA
- Low battery trouble indication threshold 11.1VDC
- Battery deep discharge protection (cut-off at 9.5VDC)
- Main board current draw: 85mA (set and unset state)
- Resettable fuses (PTC) used on circuit board instead of replaceable fuses

- Supervision for loss of primary power source (AC Fail), battery fail or battery low voltage (Battery Trouble) with indication provided on the keypad
- Internal clock locked to AC power frequency

### Operating Environmental Conditions

- Temperature range: -10°C to +55°C
- Relative humidity: 93% non condensing

### Keypad Specifications

- Each keypad has 5 fully programmable function keys (see Section [000] in the programming section.
- "T" version keypads have tamper protection

### Alarm Transmitter Equipment (ATE) Specification

- Digital dialer integral to the main control board
- Supports all major formats: SIA, Contact ID, 20BPS and Residential Dial
- Complies with TS103 021-1, -2, -3 Telecom equipment requirements

### System Supervision Features

The PC1616/PC1832/PC1864 continuously monitors a number of possible trouble conditions and provides audible and visual indication at the keypad. Multiple signals are indicated using scroll buttons on the LCD keypads (no priority assigned) or by different lights on the LED's keypads. Trouble Conditions include:

- |                          |  |
|--------------------------|--|
| • AC Power Failure       | • Loss of Internal Clock               |
| • Trouble by Zone        | • AUX Power Supply Fault               |
| • Fire Trouble           | • Tamper by Zone                       |
| • Telephone Line Trouble | • Failure to Communicate               |
| • Low Battery Condition  | • Module Fault (Supervisory or Tamper) |
| • Bell Output Trouble    |  |
| • RF Jam                 |  |

### Additional Features

- Automatic inhibit (swinger shutdown) for Alarm, Tamper, Trouble signals after 3 occurrences in a given set period (see section [377]), Opt [1] alarms, [2] tampers, [3] troubles.
- Programmable keypad lockout option (see section [012])
- 500 Event Buffer, date and time stamped

### Enclosures

The PC1616/PC1832/PC1864 main board can be installed in the metal enclosures listed below: Tamper protection switches can be installed on all enclosures, including door opening protection and/or removal from the mounting position. Doors can be secured using screws or keylock.

- Model PC5003C (removable door) made of 22Ga steel, painted, dimensions: 248mm(L) x 298mm(W) x 76mm(H), weight: 1500g.
- Model Power UC1 made of 18Ga steel, painted, dimensions: 315mm(L) x 319mm(W) x 100mm(H), weight: 3150g.

## Section 2: Installation & Wiring

This Installation Guide provides the basic installation, wiring and programming information required to program the PowerSeries PC1616, PC1832 and PC1864 control panels. This product is in conformity with EMC Directive 2004/108/EC based on results using harmonized standards in accordance with article 10(5), R&TTE Directive 1999/5/EC based on following Annex III of the directive and LVD directive 2006/95/EC based on results using Harmonized standards.

### Technical Summary

This product meets the requirements of Class II, Grade 2 equipment as per EN50131-1:1996, TS50131-3:2003 and EN50131-6:1997 Standards. This device is suitable for use in systems with the following notification options.

- A (use of two warning devices and internal dialer required)
- B (self-powered warning device and internal dialer required)
- D (use of DSC model T-Link TL250, TL260, TL265, GS2060 encrypted Ethernet communicator required).

		<b>FEATURES</b>		
		<b>PC1616</b>	<b>PC1832</b>	<b>PC1864</b>
<p><b>OUT OF THE BOX</b></p> <p>Qty 1 <input type="checkbox"/> Cabinet                      Qty 1 <input type="checkbox"/> PC Module                      Qty 1 <input type="checkbox"/> Installation Guide                      Qty 1 <input type="checkbox"/> User Manual                      Qty 2 <input type="checkbox"/> Cabinet Label                      Qty 1 <input type="checkbox"/> Cabinet Door Plug                      Qty 4 <input type="checkbox"/> Standoffs                      Qty 16 <input type="checkbox"/> 5.6KΩ Resistors                      Qty 1 <input type="checkbox"/> 2.2KΩ Resistor                      Qty 1 <input type="checkbox"/> 1.0KΩ Resistor                      Qty 1 <input type="checkbox"/> Grounding Kit</p>	On-board Zones	6	8	8
	Hardwired Zones	16 (1xPC5108)	32 (3xPC5108)	64 (7xPC5108)
	Wireless Zones	32	32	32
	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 (PC5208) 4x500 mA (PC5204)
	Keypads	8	8	8
	Partitions	2	4	8
	User Codes	47 + Master Code	71 + Master Code	94 + Master Codes
	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
	Bell Output	12V/700 mA (cont)	12V/700 mA (cont)	12V/700 mA (cont)

<b>SPECIFICATIONS</b>	
Temp Range .....	0°C-55°C
Humidity (Max) .....	93%R.H.
Power Supply.....	16.5VAC/40VA @60Hz
Current Draw (Panel).....	110mA (nom.)
Aux+ Output.....	12VDC/500mA
Bell Output.....	12VDC/700mA

### COMPATIBLE DEVICES

<b>Keypads (Backward compatible with all PowerSeries keypads)</b>	
PK5500 Keypad.....	125mA (max.)
PK5501 Keypad.....	125mA (max.)
PK5508 LED Keypad.....	125mA (max.)
PK5516 LED Keypad.....	125mA (max.)
LCD5511 Fixed Message LCD Keypad.....	85mA (max.)
LED5511 8-zone LED Keypad .....	100mA (max.)
RFK5500 Keypad .....	135mA (max.)
RFK5501 Keypad .....	135mA (max.)
RFK5508 Keypad .....	135mA (max.)
RFK5516 Keypad .....	135mA (max.)
<b>Cabinets</b>	
PC5003C(removable door).....	248x298x78mm
Model Power UC1 .....	315x 319x100mm

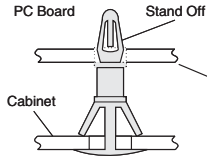
<b>Modules</b>	
TL-250/TL300 Communicator .....	275/350mA
GS2060/GS2065 (GPRS/GSM only).....	65mA
GS2060-SM (GPRS only) .....	90mA
TL260GS/TL265GS (Ethernet/GPRS) .....	100mA
TL260-SM (Ethernet only) .....	100mA
TL260GS-SM (Ethernet/GPRS only).....	120mA
PC5100 2-wire Interface.....	40mA plus devices 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
Escort5580 Telephone Interface Module .....	130mA

### Installation

Begin the installation by mounting additional modules in the cabinet using the standoffs provided, then mount the cabinet in a dry protected area with access to unswitched AC power. Install hardware in the sequence indicated in the following pages. Do **NOT** apply power until installation is complete. Refer to the following diagram for wiring details.

### PC1616/1832/1864 Wiring Diagram

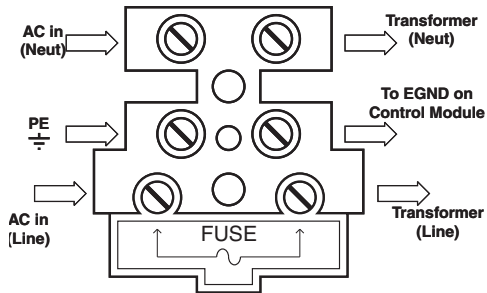
1. Insert standoff into cabinet mounting hole in the desired location. Snap in place.
2. Position circuit board mounting holes over standoffs. Press firmly on board to snap in place.



**220 - 240VAC, 50/60Hz, 200mA**

**IMPORTANT!**

Minimum 1/4" (6.4mm) separation must be maintained at all points between BATTERY/AC WIRING and all other wiring connections

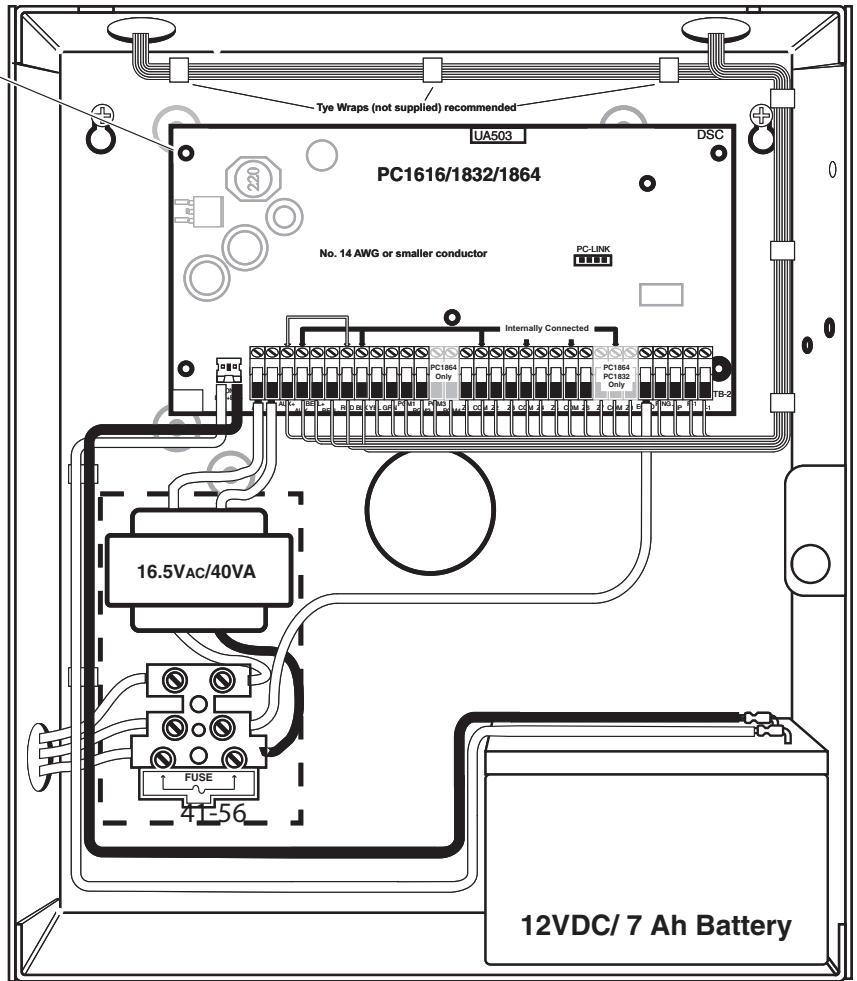


PC5003C Cabinet Shown  
Use Model Power UC1 for (2) Battery Installations

**IMPORTANT:**

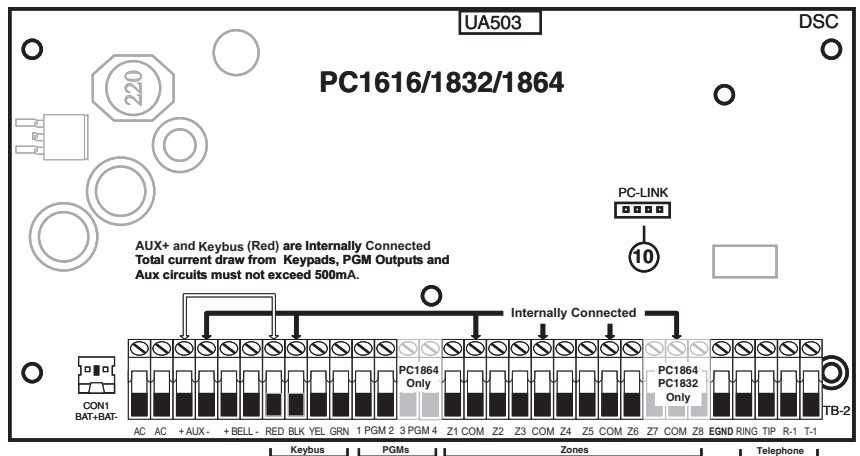
1. This equipment, Alarm Controller PC1616/1832/1864/etc. shall be installed and used within an environment that provides the pollution degree max 2 and overvoltages category II NON HAZARDOUS LOCATIONS, indoor only. The equipment is FIXED and PERMANENTLY CONNECTED and is designed to be installed by service 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.]
2. The connection to the mains supply must be made as per the local authorities rules and regulations: In the UK as per BS6701. An appropriate disconnect device must be provided as part of the building installation. Where it is not possible to rely on identification of the NEUTRAL in the AC MAINS SUPPLY, the disconnecting device must disconnect both poles simultaneously (LINE and NEUTRAL). The device shall disconnect the supply during servicing.
3. The equipment enclosure must be secured to the building structure before operation.
4. Internal wiring must be routed in a manner that prevents:
  - Excessive strain on wire and on terminal connections;
  - Loosening of terminal connections;
  - Damage of conductor insulation
5. Disposal of the used batteries shall be made according to the waste recovery and recycling regulations applicable to the intended market.
6. Before SERVICING, DISCONNECT the TELEPHONE CONNECTION.
7. Two batteries may be used to provide the required backup time.

**WARNING:**  
High Voltage. Disconnect AC Power and telephone lines before servicing



**WARNING:** Incorrect connections may result in PTC failure or improper operation. Inspect wiring and ensure connections are correct before applying power.

Do NOT route any wiring over circuit boards. Maintain at least 1" (25.4mm) separation.



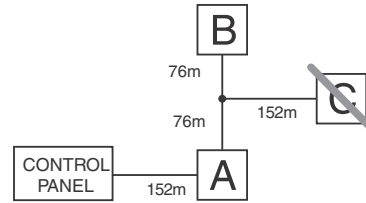
DG009604

## 2.1 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, maximum 18 AWG (2-wire twisted preferred)
- Do **NOT** use shielded wire
- Modules can be home run, connected in series or can be T-tapped provided that the maximum wire distance from the control panel to any module does not exceed 305m
- No more than 915m of wire can be used in total



## 2.2 Zone Wiring

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

- Minimum 22 AWG wire, maximum 18 AWG
- Do **NOT** use shielded wire
- Wire run resistance shall not exceed 100Ω. Refer to the chart:

Burglary Zone Wiring Chart	
Wire Gauge	Maximum wire Length to End-of-line Resistor (feet/meters)
22	3000 / 914
20	4900 / 1493
19	6200 / 1889
18	7800 / 2377
Figures are based on maximum wiring resistance of 100 ohms.	

- Section [001-004] selects Zone Definition
- Section [013] Opt [1] selects Normally Closed or EOL resistors
- Section [013] Opt [2] selects Single EOL or Double EOL resistors
- Section [101]-[108] Opt [14], [15], [16] selects Normally Closed Single EOL or Double EOL for onboard zones (Zone 1-8)

### Zone Status - Loop Resistance/Loop Status

- **Fault** - 0Ω (shorted wire/loop)
- **Secure** - 5600Ω (contact closed)

## 2.3 Zone Expanders

Zone expanders add zones in groups of eight to the Alarm system. Module jumpers J1,J2,J3 are required to assign zones to these modules. Jumper settings for PC5108 v2 are shown here.

- PC5108 v1.0 supports first 32 zones only.
- Do **NOT** use PC5108 v1 & v2 on the same panel.

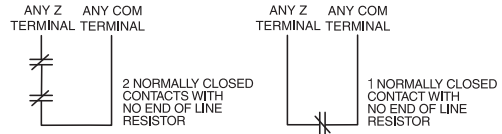
### Module Jumpers

J1	J2	J3
ON	ON	ON
OFF	ON	ON
ON	OFF	ON
OFF	OFF	ON
ON	ON	OFF
OFF	ON	OFF
ON	OFF	OFF
OFF	OFF	OFF

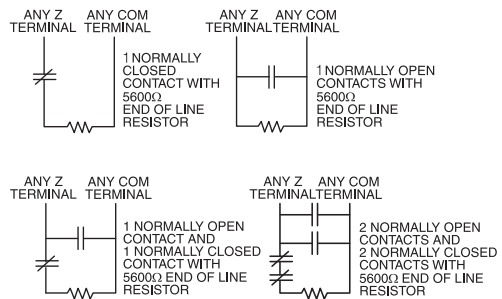
### Zones Assigned

Zones Disabled
Zones 09-16
Zones 17-24
Zones 25-32
Zones 33-40
Zones 41-48
Zones 49-56
Zones 57-64

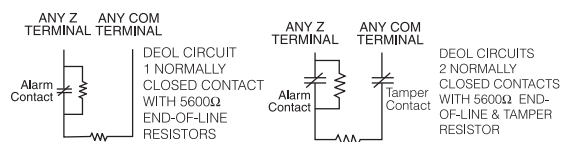
### Normally Closed Loops



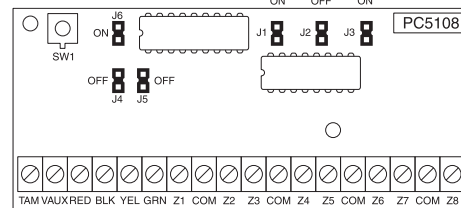
### Single End-of-Line Resistor Wiring



### Double End-of-Line Resistor Wiring



- **Tamper** - infinite (broken wire, open)
- **Violated** - 11,200Ω (contact open)



Refer to the associated installation sheet for Jumper locations for the PC5108.

## 2.4 Bell Wiring

Bell Output Voltage: 12 VDC, -15%/+10% when input voltage is between 85-110% of rated value and output current is 0.0A - 0.7A.

**NOTE:** Steady, Pulsed alarms are also supported.

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] Trouble Display on page 8.



## 2.5 AUX Power Wiring

The control panel can provide a maximum of 500mA of current for modules, powered detectors, relays, LED's etc. If the total current required exceeds 500mA an additional power supply is required (e.g., PC5200, PC5204). See list below.

**NOTE:** AUX Output voltage: 12VDC, -15%/+10% when Input Voltage is between 85%-110% of rated value and output current between 0.0A - 0.5A max. Refer to the list of *Compatible Devices* for the current draw of individual devices.

## 2.6 PGM Wiring

PGMs switch to ground when activated by control panel. Connect the positive side of the device to be activated to the AUX+ Terminal. Connect the negative terminal to the PGM. Current output is as follows:

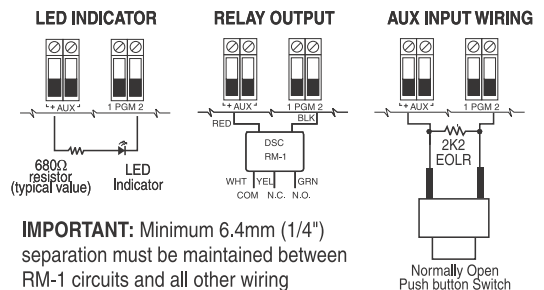
- PGM 1, 3, 4 ..... 50mA
- PGM 2 ..... 300mA

For currents 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. PGM 1, LED output with current limiting resistor and Optional Relay driver output.

### 2-wire Smoke Detectors Initiating Circuit

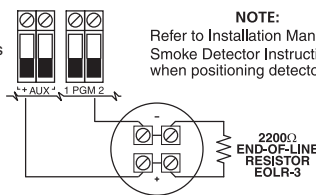
- Style B (Class B), Supervised, Power Limited
- DC Output Voltage ..... 9.8-13.8 VDC
- Detector Load ..... 2mA (MAX)
- Single-end-of-line (SEOL) Resistor ..... 2200Ω
- Loop Resistance ..... 24Ω (MAX)
- Standby Impedance ..... 1020Ω (NOM)
- Alarm Impedance ..... 570Ω (MAX)
- Alarm Current ..... 89mA (MAX)



### 2-wire Smoke Detectors

Compatible 2-wire Smoke Detector  
DSC FSA-210C Series

- FSA-210C
- FSA-210CT
- FSA-210CS
- FSA-210CST
- FSA-210CLST
- FSA-210CR
- FSA-210CRT
- FSA-210CRS
- FSA-210CRST
- FSA-210CLRST

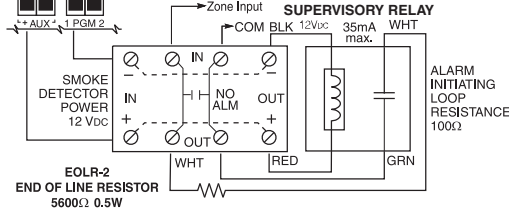


**NOTE:** Do NOT combine models from different Manufacturers On the same circuit. Operation may be impaired.

**NOTE:** Refer to Installation Manual and Smoke Detector Instruction Sheet when positioning detectors.

### 4-wire Smoke Detectors

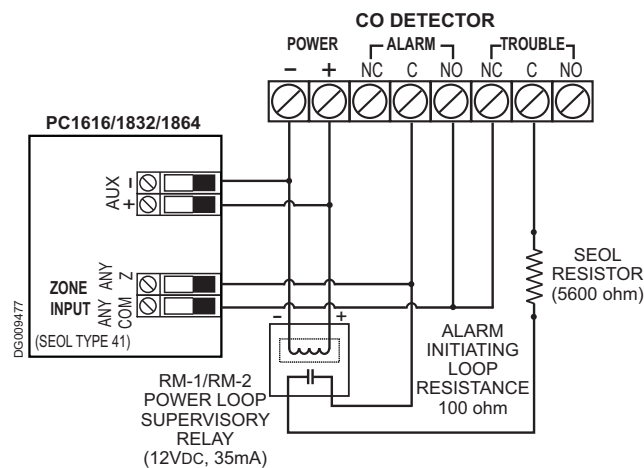
Compatible 4-wire Smoke Detector  
DSC FSA-410C Series



Compatible 4-wire Smoke Detector  
DSC FSA-410C Series

- FSA-410C
- FSA-410CT
- FSA-410CS
- FSA-410CST
- FSA-410CLST
- FSA-410CR
- FSA-410CRT
- FSA-410CRS
- FSA-410CRST
- FSA-410CLRST

## 2.7 Carbon Monoxide Detector Wiring



PC1616/1832/1864 v4.5 control panels support operation of 4-wire CO detectors and DSC wireless CO detectors.

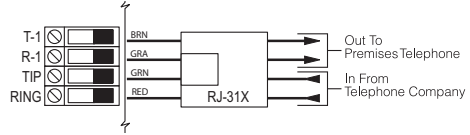
Use only hardwired detectors that are compatible with the AUX output voltage range of the DSC control panels.

**NOTE:** Do not loop the wire under terminals for system supervision. Break the wire run to provide supervision of connections. The power supervision relay has to be powered from the last detector in the loop.

When installing wireless CO detectors, use only DSC models WS4913 and WS8913. A DSC wireless receiver model RF5132-433/RF5132-868 version 5.1 (and higher) or RFK keypad receivers v1.2 (and higher) are required for wireless models.

## 2.8 Telephone Line Wiring

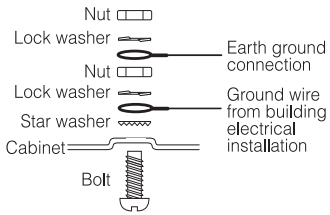
Wire the telephone connection terminals (TIP, Ring, T-1, R-1) to an RJ-31x Connector as indicated. Use 26 AWG wire minimum for wiring. For connection of multiple devices to the telephone line, wire in the sequence indicated. Telephone format is programmed in section [350]. Telephone Call Directions are programmed in section [351]-[376].



## 2.9 Ground

### Ground Installation

Tighten nut to break paint and make good connection to the cabinet



## 2.10 Battery

In accordance with EN50131-1 Standard for a Power Supply Type A rated for Grade 2 Systems, battery standby time required in the event of prime power source failure shall be 12hrs (min.). The table below is a guide indicating maximum loads for the standby times shown. Load includes AUX+/-, Keybus (Red, Blk), and PGM 1-4 and modules (see table on page 2 of this publication), it does not include a battery safety margin.

### Battery Charging Current mA (4Ah, 7Ah batteries)

Batt Size	4hr	12Hr	24Hr	36Hr
4Ah	500mA	220mA	-	-
7Ah	500mA	480mA	150mA	-
14Ah	-	500mA	480mA	280mA
24Ah	-	-	500mA	500mA

Program Section [701] Opt [7] to ON, if 14AH or 24AH battery is used.

**NOTE:** Replace batteries every 3-5 years. If two batteries are required to meet the standby time, use DSC Enclosure Model Power UC1. Battery capacity will deteriorate with age and number of charge/discharge cycles.

## 2.11 AC Wiring

**Power Supply:** In accordance with EN50131-6, Type A, Grade 2

**Primary:** 220-240VAC/50Hz/0.2A

**Secondary:** 16.5VAC/40VA min.

**WARNING!** Incorrect connection of batteries may result in battery rupture or fire hazard. Do NOT allow metal objects to connect the positive and negative terminals.



## Section 3: User Commands

Any system keypad can be used to program or perform any keypad command. LED keypads use status and zone indicator lights to represent alarm functions and status. The LCD keypad displays the description and status indicator lights represent alarm functions and status. This section describes basic keypad commands.

**1** Press the [#] key to reset the keypad if an error has been made entering user codes or keypad commands.

### 3.1 Away Arming

The Ready light must be **ON** to arm the system. If the Ready light is **OFF**, ensure all protected doors and windows are secure or bypassed.

To arm the system in the Away mode, either press and hold the Away function button for 2 seconds or enter a valid user code and leave the premises through a door programmed as Delay. Upon arming, the Armed light will turn **ON**. If a user code was used to arm the system and Stay/Away zones are programmed, the Bypass light will turn **ON** and will turn **OFF** when a door programmed as Delay is violated. If the Audible Exit Delay option is enabled, the keypad will beep once every second during the exit delay (and three times a second during the last 10 seconds) to alert the user to leave.

### 3.2 Stay Arming

The Ready light must be **ON** to arm the system. If the Ready light is **OFF** ensure all protected doors and windows are secure or bypassed.

To arm the system in the Stay mode, either press and hold the Stay function button for 2 seconds or enter a valid user code and stay within the premises (do **NOT** violate a door programmed as Delay). Upon arming, the Armed light and Bypass light will turn **ON**. If the Stay function button is used, the keypad will not beep during the exit delay. If a user code was used, the keypad will beep if the **Audible Exit Delay** option is enabled.

### 3.3 Disarming

The user must enter through a door programmed as Delay. Upon entering, the keypad will emit a steady tone (and emit a pulsing tone during the last 10 seconds of entry delay) to alert the user to disarm the system. Enter a valid user code to disarm the system. If an alarm occurred while the panel was armed, the Memory light and the zones that went into alarm will be flashing (LED keypad) or the keypad will display 'Alarm in Memory' (LCD keypad). Press the [#] key to return the keypad to the Ready state.

### 3.4 [\*] Commands

The following is a list of the [\*] commands available and a description of each:

[*][1]	Bypass (disarmed state)/Reactivate Stay/Away Zones (armed state)
[*][2]	Display Trouble Conditions
[*][3]	Display Alarm Memory
[*][4]	Door Chime Enable/Disable
[*][5]	User Code Programming
[*][6]	User Commands
[*][7][x]	Command Functions 1 – 4
[*][8]	Installer Programming
[*][9][code]	No-Entry Arming
[*][0]	Quick Arm (disarmed state)/Quick Exit (armed state)

#### [\*][1] Bypass/Re-activate Stay/Away Zones

##### LED Keypad:

Press [\*][1] to enter the bypass mode. If the Code Required for Bypass option is enabled, enter a valid user code. The Bypass light will flash. The keypad will turn **ON** the corresponding zone light to indicate a zone is bypassed. To bypass or unbypass a zone, enter the 2-digit zone number. Once the correct zones are bypassed, press [#] to exit. The Bypass light will be **ON** if any zones are manually bypassed.

##### LCD Keypad:

Press [\*][1] to enter the bypass mode. If the Code Required for Bypass option is enabled, enter a valid user code. The keypad will display 'Scroll to View Zones'. The keypad will display the programmed zone labels for the zones and include the letter 'O' in the bottom, right corner if the zone is violated or the letter 'B' if the zone is bypassed. Scroll to the appropriate zone and press the [\*] key to change the bypass status (or enter the 2-digit zone number). Once the correct zones are bypassed, press [#] to exit.

##### Additional Bypass Commands:



<b>Bypass Recall:</b>	Press [99]. The keypad will recall the last group of zones that were bypassed.
<b>Clear Bypass:</b>	Press [00]. The keypad will clear the bypass on all zones.
<b>Save Bypass:</b>	Press [95]. The keypad will save which zones are manually bypassed.
<b>Recall Save:</b>	Press [91]. The keypad will recall the bypassed zones that were saved.

**1** Hold-up Zones cannot be assigned to bypass groups.

**Re-activate Stay/Away Zones:** Press [\*][1] when the system is armed in the Stay mode to change the armed status to Away mode. The system will add the Stay/Away zones back into the system after the exit delay time expires.


**[\*][2] Trouble Display**

Refer to Appendix B – Troubleshooting Guide, for troubleshooting assistance and a detailed description of all trouble conditions.

-  Press [9] to acknowledge and override all existing troubles. Pressing [9] allows the panel to be armed, and will generate and log an override event. A General System Supervisory caused by a hardwired or wireless zone expander cannot be overridden by this method. If Section [701] option 3 is ON arming will be inhibited if a system low battery or AC trouble is detected and cannot be overridden by this method.
-  Press [8] in the trouble menu on any new PowerSeries keypad to enter the time and date programming menu. This option will be available if a Loss of Clock trouble is present on the system.

**[\*][3] Alarm Memory Display**

The Memory light will be ON if an alarm occurred during the last armed period. Press [\*][3]. The Memory light will flash and the keypad will display the zones that went into alarm.

-  To clear the Memory light, arm then disarm the system.

**[\*][4] Door Chime Enable/Disable**

Press [\*][4]. The keypad will emit 3 rapid beeps if the door chime feature is now enabled and a steady 2-second tone if it is now disabled. The same function can be performed by pressing and holding the Chime function button for 2 seconds.

**[\*][5] Program User Codes**

The following table identifies available user codes:

Code	Type	Function
[01]-[39], [41]-[95]	General User Codes	arm, disarm
[40]	Master Code	all functions

**Programming User Codes:****LED Keypad:**

Press [\*][5] followed by the Master Code. The Program light will flash. The keypad will turn ON the corresponding zone light to indicate a user code is programmed. Enter the 2-digit user to be programmed, the zone light will flash. Enter a new 4 or 6-digit user code or press [\*] to delete the user code. After the user code is programmed or deleted, you may enter another 2-digit user to be programmed or press [#] to exit.

**LCD Keypad:**

Press [\*][5] followed by the Master Code. The keypad will display the first user (user 01) and include the letter 'P' in the bottom, right corner if the user code is programmed. Scroll to the appropriate user and press the [\*] key to program the user (or enter the 2-digit user number). Enter a new 4 or 6-digit user code or press [\*] to delete the user code. After the user code is programmed or deleted, scroll to another user or press [#] to exit.

**Programming Partition Assignment:**

Press [\*][5] followed by the Master Code or Supervisor Code. Press [98] followed by the 2-digit user to change to the partition assignment. The keypad will turn ON the corresponding zone light to indicate which partition(s) the user is assigned to. For example, if zone light 1 is ON, the user is assigned to partition 1. To change the partition assignment, press the number corresponding to the partition. Once the correct partitions are assigned to the user, press [#] to exit. To change the partition assignment for another user, press [98] followed by the 2-digit user number. When finished, press [#] to exit.

**Programming User Attributes:**

Press [\*][5] followed by the Master Code or Supervisor Code. Press [99] followed by the 2-digit user to change to the user attributes. The keypad will turn ON the corresponding zone light to indicate which attributes are assigned to the user.


Light [1]	User can enter User Code Programming section with this code.
Light [2]	Duress Reporting Code is sent whenever this code is entered.
Light [3]	User can manually bypass zones.
Light [4]	User can access the Escort5580 module remotely.
Light [5]	For Future Use
Light [6]	For Future Use
Light [7]	The panel will squawk the bell output when the user arms/disarms.
Light [8]	One-time use code – Can disarm the system once per day and is reset at midnight.

To change the user attributes, press the number corresponding to the attribute. Once the correct attributes are assigned to the user, press [#] to exit. To change the user attributes for another user, press [99] followed by the 2-digit user number. When finished, press [#] to exit.

**[\*][6] User Functions**

Press [\*][6] followed by the Master Code, then press the number corresponding to the following functions.


- [1] **Program Time and Date:** Enter the time and date using the following format [HH:MM] [MM/DD/YY]. Program the time using military standard (e.g., 8:00 pm = 20:00 hours).
- [2] **Auto-arm/Auto-disarm Enable/Disable:** The keypad will emit 3 rapid beeps if the Auto-arm/disarm feature is now enabled and a steady 2-second tone if it is now disabled.
- [3] **Auto-arm Time/Day:** Press the number corresponding to the day of the week (1=Sunday, 2=Monday etc.) followed by the auto-arm time. Program the time using military standard (e.g., 8:00 pm = 20:00 hours).
- [4] **System Test:** The panel will perform the following; activate the bell output, keypad buzzer and all keypad status lights for 2 seconds, test the backup battery and transmit a reporting code to the central station (if programmed).
- [5] **Enable DLS:** The panel will temporarily enable DLS for 6 hours.
- [6] **User Initiated DLS:** The panel will attempt to call the DLS computer.
- [7] **For Future Use**
- [8] **User Walk Test -** User walk test mode is initiated/terminated.

 **For LCD Keypads:** Scroll to the desired option then press [\*].

**Additional Alphanumeric Keypad Functions:**

When scrolling through the list of available functions, the following additional functions are available:

<b>Event Buffer:</b>	Used to view the 500-event panel buffer.
<b>Brightness Control:</b>	Used to adjust the display backlighting level for optimal viewing.
<b>Contrast Control:</b>	Used to adjust the display contrast level for optimal viewing.
<b>Buzzer Control:</b>	Used to adjust the keypad buzzer tone for optimal sound.

 For the PC5508, PC5516, PC5532 and LCD5501 LED keypads, Press and hold the [\*] key to adjust the keypad buzzer tone, then release the button. For the PK series keypads, enter [\*][6][Master Code] then use the left arrow button (<) to scroll to the desired buzzer tone and use the right arrow button (>) to adjust the backlighting level. When finished, press [#] to exit.

**[\*][7][x] Command Output (1-4)**

Press [\*][7][x]. If the Command Output Code Required option is enabled, enter a valid user code. The panel will activate any PGM output assigned to the command output.

**[\*][8] Installer Programming**

Press [\*][8] followed by the Installer Code to enter Installer Programming. Refer to the 'How to Program' section for more information.

**[\*][9][User Code] No-Entry Arming**

Press [\*][9] followed by a valid user code. The system will arm in the Stay mode and after the exit delay expires, it will remove entry delay. All zones programmed as Delay will function like Instant zones. The system will flash the Armed light to indicate that the system is armed with no entry delay.

**[\*][0] Quick Arm/Quick Exit**

**Quick Arm:** When disarmed, press [\*][0] to arm the system. The system will arm as if a valid user code was entered.

**Quick Exit:** When armed, press [\*][0] to activate Quick Exit. The system will allow a single zone programmed as Delay to be violated once during the following 2 minute time period without changing the status of the system.

**3.5 Function Keys**

Keypads have 5 programmable one-touch function buttons located in a column down the right-side of the keypad. These buttons can also be activated by pressing and holding number [1] through [5] respectively for 2 seconds. The default for these function buttons on the PK series keypads are as follows:

- [1] Stay Arm
- [2] Away Arm
- [3] Chime Enable/Disable
- [4] Fire Reset – Command Output 2
- [5] Quick Exit.

## Section 4: Programming

This section provides the information necessary to program all required features for a basic system as well as common applications.

### 4.1 How to Program


DSC recommends filling in the Programming Worksheet with the required programming information before programming the system. This will reduce the time required to program and will help eliminate errors.

To enter Installer Programming press **[\*][8][Installer Code]**. The Program light will FLASH (programmable LCD keypad displays will change to 'Enter Section'). An error tone indicates the installer code entered is incorrect, Press **[#]** to clear any key presses and try again.

 The default Installer Code is **[5555]**.

The Armed and Ready lights indicate programming status:

<b>Armed Light ON</b>	Panel waiting for 3-digit section number. If in module programming, waiting for section # to be entered.
<b>Ready Light ON</b>	Panel waiting for data to be entered.
<b>Ready Light FLASHING</b>	Panel waiting for HEX data to be entered.

 You cannot enter installer programming while the system or any partition is armed or in alarm.

### 4.2 Programming Toggle Options

Enter the 3-digit programming section number.

- The Armed light will turn **OFF** and
- The Ready light will turn **ON**.
- The keypad will display which toggle options are **ON** or **OFF** according to the chart.
- To toggle an option **ON** or **OFF**, press the corresponding number on the keypad. The display will change accordingly
- When all the toggle options are configured correctly, press the **[#]** key to exit the program section.
- The Ready light will turn **OFF** and the Armed light will turn **ON**.

Keypad Type	Option ON	Option OFF
LED	Zone Light <b>ON</b>	Zone Light <b>OFF</b>
Fixed-Message LCD	Indicator # <b>ON</b>	Indicator # <b>OFF</b>
Programmable-Message LCD	# Displayed	Dash [-] Displayed

### 4.3 Programming Decimal and Hexadecimal (HEX) Data

- Enter the 3-digit programming section number.
- The Armed light will turn **OFF** and The Ready light will turn **ON**.
- Enter the data written in the boxes.


For sections that require multiple 2 or 3 digit numbers, the keypad will double-beep after each 2 or 3 digit entry and move to the next item in the list. After the last digit in the section is entered, the keypad will beep rapidly 5 times and exit the program section. The Ready light will turn **OFF** and the Armed light will turn **ON**.

For sections that do not require data for every box (such as phone numbers) press the **[#]** key to exit the program section after entering all the required data. The Ready light will turn **OFF** and the Armed light will turn **ON**.

At any time the **[#]** can be pressed to exit any program section. All changes made up to that point will be saved.

HEX (or hexadecimal) digits are sometimes required. To enter a HEX digit, press the **[\*]** key to begin HEX programming. The Ready light will FLASH. Refer to the chart at right and press the number corresponding to the HEX digit required. The Ready light will continue to FLASH. Press **[\*]** again to return to normal decimal programming. The Ready light will turn **ON**.

Value	Enter	Telephone Dialer
HEX [A]	Press <b>[*][1][*]</b>	Not Supported
HEX [B]	Press <b>[*][2][*]</b>	Simulated <b>[*]</b> key
HEX [C]	Press <b>[*][3][*]</b>	Simulated <b>[#]</b> key
HEX [D]	Press <b>[*][4][*]</b>	Dial tone search
HEX [E]	Press <b>[*][5][*]</b>	Two second pause
HEX [F]	Press <b>[*][6][*]</b>	End of Number

 In addition to the standard digits 0-9, HEX digits and special dialer functions can also be programmed if required.

### 4.4 How to Exit Installer Programming

To exit installer programming, press the **[#]** key when the panel is waiting for a 3-digit section number (the Armed light is **ON**).

## 4.5 Viewing Programming

### LED and LCD5501Z Keypads

Any programming section can be viewed from an LED or LCD5501Z keypad. When a programming section is entered, the keypad will immediately display the first digit of information programmed in that section.

The keypad displays the information using a binary format, according to this chart:

Press any of the Emergency keys (Fire, Auxiliary or Panic) to advance to the next digit.

When all the digits in a section have been viewed, the panel will exit the section: the Ready light will turn **OFF**, and the Armed light will turn **ON**, waiting for the next 3-digit programming section number to be entered. Press the [#] key to exit the section.

Please See Hex Data  
Entry Instructions

Value	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Zone 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Zone 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Zone 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Zone 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Zone Light OFF  
 Zone Light ON

### LCD Keypad

The keypad will immediately display all the information programmed when a programming section is entered. Use the arrow keys (< >) to scroll through the data being displayed. Scroll past the end of the data displayed, or press the [#] key to exit the section.

### 4.6 DLS Programming

Follow the below steps in sequence to program through DLS:

1. Initiate downloading using the DLS software.
2. Connect an RS-232 to PC-Link Cable between the Computer with DLS Software installed and the alarm panel to be programmed.



Plugging in the PC-Link header to the panel will automatically initiate the connection.

### 4.7 DLS Battery Voltage Diagnostics

Using DLS software the panel battery voltage can be monitored. The battery voltage can be viewed in the panels DLS session window when the panel information is uploaded.

## Section 5: Programming Descriptions

The following is a brief description of the features and options available in the Power PC1616/1832/1864 control panel.

### New Function Keys

#### Global Stay Arming

When this function key is pressed the panel will prompt the user for an access code. The panel will arm all partitions assigned to that access code in Stay Mode when exit delay expires. If a partition was armed in Away mode when the Global Stay Arming key is pressed, that partition will switch armed status to Stay when the delay expires. The Force arm attribute must be enabled on Entry/Exit points for this feature.

#### Global Away Arming

When this function key is pressed the panel will prompt the user for an access code. The panel will arm all partitions assigned to that access code in Away Mode when exit delay expires. If a partition was armed in Stay mode when the Global Away Arming key is pressed, that partition will switch armed status to Away when the delay expires. The Force arm attribute must be enabled on Entry/Exit points for this feature.

#### Global Disarming

When this function key is pressed the panel will prompt the user for an access code. The panel will then disarm all partitions assigned to that access code.

### Section [001] to [004] Zone Definitions

Option	Description
[00]	<b>Null Zone:</b> Zone not used
[01]	<b>Delay 1:</b> When armed, provides entry delay when violated (follows Entry Delay 1).
[02]	<b>Delay 2:</b> When armed, provides entry delay when violated (follows Entry Delay 2).
[03]	<b>Instant:</b> When armed, instant alarm when violated.
[04]	<b>Interior:</b> When armed, instant alarm if the zone is violated first, will follow entry delay if entry delay is active.
[05]	<b>Interior Stay/Away:</b> Similar to 'Interior' except panel will auto-bypass the zone if Armed in the Stay mode.
[06]	<b>Delay Stay/Away:</b> Similar to 'Delay 1' except panel will auto-bypass the zone if Armed in the Stay mode.
[07]	<b>Delayed 24-Hour Fire (Hardwire):</b> Instant audible alarm when violated, communication delayed 30 seconds - if alarm acknowledged during this time (by pressing a key), the alarm will be silenced 90 seconds and repeat cycle - if not, alarm will latch and communicate after 30 second delay.
[08]	<b>Standard 24-Hour Fire (Hardwire):</b> Instant alarm and communication when violated.
[09]	<b>24-Hour Supervision (Hardwire):</b> Instant alarm and communication when violated. Will not sound the bell or keypad buzzer.
[10]	<b>24-Hour Supervisory Buzzer:</b> Instant alarm, panel will activate keypad buzzer instead of bell output.
[11]	<b>24-Hour Burglary:</b> Instant alarm when violated, audible alarm at default. Reporting code BA, BH.
[12]	<b>24-Hour Hold-Up:</b> Instant alarm when violated, silent alarm at default. Reporting code HA, HH.
[13]	<b>24-Hour Gas:</b> Instant alarm when violated, audible alarm at default. Reporting code GA, GH.
[14]	<b>24-Hour Heat:</b> Instant alarm when violated, audible alarm at default (also known as high-temp). Reporting code KA, KH.
[15]	<b>24-Hour Auxiliary (Medical):</b> Instant alarm when violated, silent alarm at default. Reporting code MA, MH.
[16]	<b>24-Hour Panic:</b> Instant alarm when violated, audible alarm at default. Reporting code PA, PH.
[17]	<b>24-Hour Emergency:</b> Instant alarm when violated, audible alarm at default. Reporting code QA, QH.
[18]	<b>24-Hour Sprinkler:</b> Instant alarm when violated, audible alarm at default. Reporting code SA, SH.
[19]	<b>24-Hour Water:</b> Instant alarm when violated, audible alarm at default (also known as high water level). Reporting code WA, WH.
[20]	<b>24-Hour Freeze:</b> Instant alarm when violated, audible alarm at default (also known as low-temp). Reporting code ZA, ZH.
[21]	<b>24-Hour Latching Tamper:</b> Instant alarm when violated, panel cannot be armed until Installer Programming is entered.
[22]	<b>Momentary Keyswitch Arm:</b> Arm or disarm the system when violated.
[23]	<b>Maintained Keyswitch Arm:</b> Arm system when violated, disarm system when restored.
[24]	<b>For Future Use</b>
[25]	<b>Interior/Delay:</b> Zone will function like an Interior zone when armed in Away mode, like a Delay zone when armed in the Stay mode.
[26]	<b>24-Hour Non-Alarm:</b> Zone will <b>NOT</b> create an alarm. Can be used with zone follower function for automation applications.
[29]	<b>Auto-Verified Fire:</b> When violated, system will reset all smoke detectors for 20 seconds, then wait 10 seconds for detectors to settle. If another fire alarm detected within 60 seconds zone will go into alarm immediately.
[30]	<b>Fire Supervisory:</b> Instant alarm, system will activate keypad buzzer. A valid user code is required to silence Keypad buzzer.
[31]	<b>Day Zone:</b> Instant alarm when system is armed, keypad buzzer (no alarm) when system is disarmed.
[32]	<b>Instant Stay/Away:</b> Similar to 'Instant' except panel will auto-bypass the zone if Armed in the Stay mode.

- [35] **24-Hour Bell/Buzzer:** Instant alarm when violated, system will activate bell output if armed, keypad buzzer if disarmed.
- [36] **24-hour Non-Latching Tamper Zone:** Instant tamper condition when violated. Active in both the armed and disarmed state.
- [37] **Night Zone:** Functions like Interior Stay/Away but will remain bypassed if the user presses [\*][1] to re-activate Stay/Away zones when armed in the Stay mode.
- [41] **24 Hr. Carbon Monoxide:** This zone type is used with a hardwired CO detector. This zone definition has a distinct bell cadence in the event of an alarm. The cadence of this alarm is 4 cycles of 100ms on/off pulses, followed by a 5-second pause, and then repeated. After 4 minutes, the 5-second pause is extended to 60 seconds in duration. The bell is silenced when an access code is entered or the bell times out (see your CO detector instruction sheet for more details).
- [81] **24 Hr. Carbon Monoxide (Wireless):** This zone type is used with a wireless CO detector. This zone definition has a distinct bell cadence in the event of an alarm. The cadence of this alarm is 4 cycles of 100ms on/off pulses, followed by a 5-second pause, and then repeated. After 4 minutes, the 5-second pause is extended to 60 seconds in duration. The bell is silenced when an access code is entered or the bell times out.
- [87] **Delayed 24-Hour Fire (Wireless/Addressable):** Same as Delayed 24-Hour Fire (Hardwire) but must be used for wireless or addressable smoke detectors.
- [88] **Standard 24-Hour Fire (Wireless/Addressable):** Same as Standard 24-Hour Fire (Hardwire) but must be used for wireless or addressable smoke detectors.

### Section [005] System Times

After entering Section [005], enter the 2-digit subsection number for the desired partition and program the **Entry Delay 1**, **Entry Delay 2** and **Exit Delay** for each active partition on the system. Valid entries are from [001] to [255]. Enter subsection [09] to program the **Bell Cut-Off Time**. Valid entries are from [001] to [255] (in minutes).

### Section [006] Installer Code

The default Installer Code is [5555] or [555555] if 6-Digit Access Codes is enabled.

### Section [007] Master Code

The installer does not have access to this section. The master code can be restored to default in section [989] Default Master Code. The default Master Code is [1234] or [123456] if 6-Digit Access Codes is enabled.

### Section [008] Maintenance Code

The default Maintenance Code is [AAAA] (not programmed).

### Section [009] to [011] PGM Outputs

The PC1616 and PC1832 have two on-board PGM outputs (PGM1 and PGM2). The PC1864 has four on-board PGM outputs (PGM1 to PGM4). The panel has the capacity for up to 14 PGM outputs (8 additional low-current PGM outputs with PC5208 module, 4 additional high-current PGM outputs with a PC5204 module).

### PGM Output Options:

Option	Description
[00]	<b>For Future Use</b>
[01]	<b>Fire and Burglary:</b> Output will activate (steady for burglary, pulsing for fire) if an alarm occurs on the selected partition.
[02]	<b>For Future Use</b>
[03]	<b>Sensor Reset:</b> Output will normally be active and deactivate for 5 seconds when a [*][7][2] fire reset command is entered or when an Auto-Verify Fire alarm is detected.
[04]	<b>2-Wire Smoke:</b> Configures PGM2 as 2-wire smoke detector input (PGM2 only).
[05]	<b>Armed Status:</b> Output will activate when all of the selected partitions are armed.
[06]	<b>Ready Status:</b> Output will activate when all the selected partitions are in the Ready state (Ready light ON).
[07]	<b>Keypad Buzzer Follow:</b> Output will activate and follow the keypad buzzer for the selected partition when the following events occur: entry delay, door chime, audible exit delay, automatic arming pre-alert, 24-Hour Supervisory Buzzer zone alarm.
[08]	<b>Courtesy Pulse:</b> Output will activate during entry/exit delay if the selected partition is armed – will remain active for an additional 2 minutes after the entry or exit delay expires.
[09]	<b>System Trouble:</b> Output will activate when any selected trouble condition is present.
[10]	<b>Latched System Event (Strobe):</b> Output will activate when a selected condition occurs on any selected partition. Note output can be programmed to follow timer.
[11]	<b>System Tamper:</b> Output will activate when any tamper condition is present.
[12]	<b>TLM and Alarm:</b> Output will activate if a telephone line trouble is present and then an alarm occurs.
[13]	<b>Kissoff:</b> Output will activate for 2 seconds when a valid kissoff is received from the central station.
[14]	<b>Ground Start:</b> Output will activate for 2 seconds when the panel attempts to seize the phone line (additional dial tone search must be programmed in the central station phone number – HEX [D]).
[15]	<b>Remote Operation:</b> Output can be activated/deactivated via the DLS software.


- [16] **For Future Use**
- [17] **Away Armed Status:** Activates when all of the selected partitions are armed in Away mode.
- [18] **Stay Armed Status:** Activates when all of the selected partitions are armed in Stay mode.
- [19] **Command Output 1:** Activates when a [\*][7][1] command is entered on the selected partition – Command can be programmed to require a valid access code and output can be programmed to activate for the time programmed in Section [170] or programmed to latch.
- [20] **Command Output 2:** Activates when a [\*][7][2] command is entered on the selected partition – Command can be programmed to require a valid access code and output can be programmed to activate for the time programmed in Section [170] or programmed to latch.
- [21] **Command Output 3:** Activates when a [\*][7][3] command is entered on the selected partition – Command can be programmed to require a valid access code and output can be programmed to activate for the time programmed in Section [170] or programmed to latch.
- [22] **Command Output 4:** Activates when a [\*][7][4] command is entered on the selected partition – Command can be programmed to require a valid access code and output can be programmed to activate for the time programmed in Section [170] or programmed to latch.
- [23] **Silent 24-Hour Input:** Changes PGM to a 24-Hour Silent zone (PGM2 only).
- [24] **Audible 24-Hour Input:** Changes PGM to a 24-Hour Audible zone (PGM2 only).
- [25] **Delayed Fire and Burglary:** Functions as a Fire and Burglary output but does not activate until the TX Delay time expires.
- [26] **Battery Test Output:** Output activates for 10 seconds at midnight each day.
- [27] **For Future Use**
- [28] **Holdup Output:** Activates when a Holdup Alarm occurs on any assigned partition. Remains active until all assigned partitions have been armed or disarmed. Will not activate if a Holdup Zone is goes into a fault or tamper condition.
- [29] **Zone Follower (Zones 1-8) :** Active when any of the selected zones are active and deactivates when all of the selected zones are restored.
- [30] **Partition Status Alarm Memory:** Activates if the selected partition is armed. Output will pulse “one second **ON** / one second **OFF** if an alarm occurs.
- [31] **Alternate Communicator:** Activates when selected system event occurs. If active in the armed state, it remains active until the system is disarmed. If activated in the disarmed state, it remains active until a valid access code is entered within bell cut-off time, or when the system is armed after bell cut-off time has expired.
- [32] **Open After Alarm:** Active for 5 seconds when system has been disarmed after an alarm.
- [33] **Bell Status and Programming Access Output:** Activates when Bell, Installer programming mode or DLS is active. Remains active until Bell is no longer active, Installer programming mode is exited and DLS programming is disconnected.
- [34] **Away Armed with no Zone Bypassed Status:** Activates when armed with stay/away zones active and no zones bypassed.
- [35] **Zone Follower (Zones 9-16):** Active when any of the selected zones are active and deactivates when all of the selected zones are restored.
- [36] **Zone Follower (Zones 17-24):** Active when any of the selected zones are active and deactivates when all of the selected zones are restored.
- [37] **Zone Follower (Zones 25-32):** Active when any of the selected zones are active and deactivates when all of the selected zones are restored.
- [38] **Zone Follower (Zones 33-40):** Active when any of the selected zones are active and deactivates when all of the selected zones are restored.
- [39] **Zone Follower (Zones 41-48):** Active when any of the selected zones are active and deactivates when all of the selected zones are restored.
- [40] **Zone Follower (Zones 49-56):** Active when any of the selected zones are active and deactivates when all of the selected zones are restored.
- [41] **Zone Follower (Zones 57-64):** Active when any of the selected zones are active and deactivates when all of the selected zones are restored.

## Section [012] Keypad Lockout

The system can be programmed to 'lockout' keypads if a series of incorrect user or installer codes are entered. When lockout is active, all keypads emit a steady 2-second error tone when a key is pressed. Program the Number of Invalid Codes Before Lockout with the desired number. Valid entries are from [000] to [255]. Program data [000] to disable the feature. Keypads will remain locked out for the number of minutes programmed for the Lockout Duration. Valid entries are from [000] to [255].

## Section [013] First System Option Code Section

### Option Description

- [1] **ON:** zones require normally-closed loops.  
**OFF:** zones require 5.6K End-Of-Line resistors.
- [2] **ON:** zones require double End-Of-Line resistors.  
**OFF:** zones require single End-Of-Line resistors.
- [3] **ON:** keypads will display all trouble conditions while armed. **OFF:** keypads will only display fire trouble when armed.  
 This option must be **OFF** if LCD5500 v2.x (or older) keypads are used on the system.
- [4] **ON:** only a trouble will be displayed. **OFF:** keypads will display a trouble and a zone violation if a tamper or fault is detected.
- [5] **ON:** auto-arming schedules (Program Sections [181]-[188]) will be available to the user in the [\*][6] menu.  
**OFF:** auto-arming schedules will **NOT** be available to the user in the [\*][6] menu.
- [6] **ON:** the Audible Exit Fault feature will be enabled. If a delay zone is not secured correctly and not force-armed, at the end of the exit delay, the system will go into entry delay and turn **ON** the bell output.  
**OFF:** the keypad will sound the entry delay through the keypad as normal.




- [7] **ON:** the system will **NOT** log additional alarms for a zone that has reached the swinger shutdown threshold.  
**OFF:** all zone alarms will be logged.
- [8] **ON:** Temporal Three Fire Signal is used to annunciate fire alarms (½ second ON, ½ second OFF, ½ second ON, ½ second OFF ½ second ON, 1 ½ seconds OFF).  
**OFF:** the system will pulse the bell output (½ second ON, ½ second OFF).

#### [014] Second System Option Code

- | Option | Description  |
|--------|--|
| [1]    | <b>ON:</b> the system squawks the bell output once when a partition is armed, twice when disarmed.<br><b>OFF:</b> the bell output does not activate.   |
| [2]    | <b>ON:</b> the system squawks the bell output every 10 seconds during the auto-arm pre-alert.<br><b>OFF:</b> the bell output does not activate.  |
| [3]    | <b>ON:</b> the system will squawk the bell output once every second during <b>Exit Delay</b> , 3 squawks per second for the last 10 seconds.<br><b>OFF:</b> the bell output will not activate.   |
| [4]    | <b>ON:</b> the system will squawk the bell output once every second during <b>Entry Delay</b> , 3 squawks per second for the last 10 seconds.<br><b>OFF:</b> the bell output will not activate.  |
| [5]    | <b>ON:</b> the system squawks the bell output once every 10 seconds when a trouble condition is present.<br><b>OFF:</b> the bell output does not activate.   |
| [6]    | <b>ON:</b> the system will beep the keypads once every second, and 3 times a second during the last 10 seconds, during exit delay when the system is armed with a user code or armed in the Away mode.<br><b>OFF:</b> the keypads will not beep. |
| [7]    | <b>ON:</b> the exit delay will be terminated (reduced to 5 seconds) when a Delay 1 zone is violated and restored after the system is armed.<br><b>OFF:</b> the exit delay will count down as normal.   |
| [8]    | <b>ON:</b> the bell output will not timeout if a fire alarm occurs. The user must turn off the bell by entering a valid user code.<br><b>OFF:</b> the bell output will timeout normally.   |

#### Section [015] Third System Option Code Section

- | Option | Description   |
|--------|---|
| [1]    | <b>ON:</b> The keypad [F] fire emergency key will be enabled.<br><b>OFF:</b> The keypad [F] fire emergency key will be disabled.  |
| [2]    | <b>ON:</b> The keypad [P] panic emergency will be audible (bell output).<br><b>OFF:</b> The keypad [P] emergency key will be silent.  |
| [3]    | <b>ON:</b> The <b>Quick Exit</b> feature will be enabled.<br><b>OFF:</b> The <b>Quick Exit</b> feature will be disabled.  |
| [4]    | <b>ON:</b> The Quick Arming [*][0] feature will be enabled.<br><b>OFF:</b> Quick Arming [*][0] feature will be disabled.<br><div style="margin-left: 20px;">  If this feature is disabled, a valid user code must be entered after the <b>Stay</b> or <b>Away</b> function buttons are pressed. </div> |
| [5]    | <b>ON:</b> A valid user code must be entered after pressing [*][1] to access the Bypass feature.<br><b>OFF:</b> A user code is not required.  |
| [6]    | <b>ON:</b> The Master Code (user code 40) can only be changed in Installer Programming.<br><b>OFF:</b> The Master Code can be changed using the User Programming [*][5] command.  |
| [7]    | <b>ON:</b> The system supervises the telephone line and displays a trouble if disconnected. <b>OFF:</b> the telephone line is not supervised.   |
| [8]    | <b>ON:</b> The system activates the bell output if a telephone line trouble is detected while the system is armed.<br><b>OFF:</b> The system activates the keypad buzzer trouble tone.  |

#### [016] Fourth System Option Code

- | Option | Description   |
|--------|---|
| [1]    | <b>ON:</b> The system supervises the AC input and displays a trouble if a failure is detected.<br><b>OFF:</b> AC Input is not supervised. |
| [2]    | <b>ON:</b> The trouble light will flash when an AC trouble is detected.<br><b>OFF:</b> The trouble light turns on, does not flash.        |
| [3]    | <b>ON:</b> The keypad blanks (no indicator lights) if a key is not pressed for 30 seconds.<br><b>OFF:</b> The keypad does not blank.      |

- [4] **ON:** A valid user code must be entered to restore normal keypad operation after the blanking.  
**OFF:** Pressing any key will return the keypad to normal operation.
- [5] **ON:** Keypad backlighting enabled. **OFF:** keypad backlighting disabled.
- [6] **ON:** The system temporarily enables the Keypad Blanking feature if an AC failure is detected (to preserve the back up battery).  
**OFF:** The system will operate as normal.
- [7] **ON:** The keypad turns **ON** the Bypass light if zones are bypassed while the system is armed.  
**OFF:** The Bypass light turns **OFF** when the system is armed.
- [8] **ON:** The system supervises keypad tampers. **OFF:** The system does not supervise keypad tampers.

### Section [017] Fifth System Option Code

Option	Description
--------	-------------

- |     |   |
|-----|---|
| [1] | <b>ON:</b> The system does <b>not</b> associate wireless keys to user codes.<br><b>OFF:</b> The system will assign user code 17 to wireless key #01, user code 18 to wireless key #02 etc. If the wireless key is used to arm or disarm, the system will report the Opening or Closing for the associated User Code.  |
| [2] | <b>ON:</b> The system logs an RF Jam trouble condition if the condition is present for 5 minutes.<br><b>OFF:</b> The system logs the trouble condition after 30 seconds.  |
| [3] | <b>ON:</b> The keypads beep if an RF Jam trouble is detected.<br><b>OFF:</b> The trouble is not annunciated via the keypad buzzer.  |
| [4] | <b>ON:</b> The Double Hit feature will be enabled. Two violations from the same zone within the Cross Zone Timer will be considered a valid Police Code or Cross Zone event. The system will report the event and log it to the event buffer.<br><b>OFF:</b> Two alarms from the same zone is not a valid Police Code or Cross Zone event. This feature is only available for the following zone types; Interior, Interior Delay, Interior Stay/Away, Delay Stay/Away and Night Zone. |
| [5] | <b>ON:</b> The system logs and communicates a <b>Late-To-Close</b> event when it auto-arms at the programmed time (not if auto arming was caused by the No-Activity Arming feature).<br><b>OFF:</b> The system does not transmit or log a <b>Late-To-Close</b> event.   |
| [6] | <b>ON:</b> Enables the Daylight Savings automatic clock adjustment feature.<br><b>OFF:</b> The system does not automatically adjust the clock for Daylight Savings.   |
| [7] | <b>For Future Use</b>   |
| [8] | <b>ON:</b> The system only squawks the bell output when the system is armed in the Away mode.<br><b>OFF:</b> The system squawks the siren when the system is armed in any mode (ee Section [14]).   |

### Section [018] Sixth System Option Code

Option	Description
--------	-------------

- |         |  |
|---------|--|
| [1]     | <b>ON:</b> The system only transmits a Test Transmission reporting code if no other event was transmitted to the central station during the programmed time.<br><b>OFF:</b> The system always transmits a Test Transmission reporting code as programmed.  |
| [2]-[4] | <b>For Future Use</b>  |
| [5]     | <b>ON:</b> The keypad buzzer follows the bell output for all alarms.<br><b>OFF:</b> The system only activates the bell output for all alarms.  |
| [6]     | <b>ON:</b> When an alarm is detected on a zone (with the Cross Zone attribute enabled), a timer is started. The alarm is not transmitted and the bell output is not activated unless a second cross zone enabled zone is violated before the Cross Zone timer times out.<br><b>OFF:</b> The system reports all alarms normally and logs and transmits a Police Code reporting code if a second zone alarm is detected during the armed period. |
| [7]     | <b>ON:</b> The system restarts the Exit Delay (one time) if a Delay zone is violated and restored during the exit delay time.<br><b>OFF:</b> Exit delay does not restart.  |
| [8]     | <b>ON:</b> The system activates the trouble beeps when an AC trouble is detected.<br><b>OFF:</b> The system does not annunciate AC troubles using the keypad buzzer.   |

### Section [019] Seventh System Option Code

Option	Description
--------	-------------

- |     |  |
|-----|--|
| [1] | <b>ON:</b> The bell will sound for the duration of Bell Time Out if a wireless zone fault occurs while armed.<br><b>OFF:</b> Wireless zone faults will not sound the bell. |
|-----|--|
-

- [2] **ON:** The trouble LED will remain illuminated if the trouble restores before being viewed in the trouble menu.  
**OFF:** The trouble LED will be illuminated when a trouble occurs and deactivates when all troubles are restored.
- [3] **ON:** When disarming, the keypad will display only the first alarm to occur during the last arming period.  
**OFF:** When disarming, the keypad will display all zones that were in alarm during the last arming period.
- [4] **For Future Use**
- [5] **ON:** A module supervisory trouble causes the bell to activate.  
**OFF:** A module supervisory trouble will not activate the bell.
- [6] **ON:** The green LED indicator on the keypads indicate the status of AC on the system.  
**OFF:** The green LED indicator on the keypads indicate the partition ready status.
- [7] **ON:** All user access codes can enter the User Functions menu.  
**OFF:** Only the Master Code can enter the User Functions menu.
- [8] **For Future Use**

### Section [020] Keypad Zone Assignment

Enter the two-digit zone number to be assigned to each keypad assigned to a specific slot. Only one keypad can be assigned to a specific slot. See Keypad Assignment. Valid entries are from [00] to [64].

### Section [021] Eighth System Option Code

- | Option  | Description  |
|---------|--|
| [1]     | <b>ON:</b> Access codes are not accepted by the system during entry delay.<br><b>OFF:</b> An access code can be used to disarm the system during entry delay.  |
| [2]     | <b>ON: EN Entry Procedure</b> - The following zone type alarm will follow bell delay if a zone violation occurs while entry delay is active on the partition: Instant, Interior, Interior Stay/Away, Delay Stay/Away, 24 Hr Supervisory, 24 Hr Buzzer, 24 Hr Burg, 24 Hr Holdup, 24 Hr Gas, 24 Hr Heat, 24 Hr Medical, 24 Hr Panic, 24 Hr Emergency, 24 Hr Sprinkler, 24 Hr Water, 24 Hr Freeze, 24 Hr Latching Tamper, Interior Delay, Day Zone, Instant Stay/Away, 24 Hr Bell/Buzzer, 24 Hr Non-Latching Tamper, Night Zone, Audible 24 Hr PGM Input. The transmission delay attribute must be enabled for all burg type zones when this feature is ON. Transmission delay and bell delay times should be programmed to be longer than entry delay. When entry delay ends, the bell delay will clear and the siren will activate. Any burg type zone will follow transmission delay when the zone alarm occurred during the Entry Delay. When entry delay expires, the control panel will delay the communication of the alarm for an additional 30 seconds to allow the user time to disarm before the signal is sent. The police code or burglary verified timer will not begin until the additional 30 second transmission delay has expired without a valid disarming procedure. If a zone violation occurs but entry delay is not active the bell will sound and the alarm will be communicated immediately depending on the zone type tripped.<br><b>NOTE:</b> The transmission delay attribute must be enabled for all burg type zones when this feature is on.<br><b>NOTE:</b> Transmission delay and bell delay times should be programmed to be longer than entry delay.<br><b>OFF: Standard Entry Delay</b> - If bell delay is activated, an alarm from a burglary type zone will follow bell delay regardless of entry delay being active. If transmission delay is activated, the communication of an alarm from a zone with the tx delay attribute enabled will be delayed regardless of entry delay being active. |
| [3]-[5] | <b>For Future Use</b>  |
| [6]     | <b>ON:</b> Key-switches and wireless can only disarm the system during an entry delay.<br><b>OFF:</b> Key-switches and wireless keys can disarm the system regardless if entry delay is active or not.   |
| [7]     | <b>ON:</b> Installer Programming only accessible if the DLS window is open.<br><b>OFF:</b> Installer programming is accessible at any time.  |
| [8]     | <b>ON:</b> Arming will be inhibited until all troubles are restored. <b>OFF:</b> The system can be armed with a trouble present.   |

### Section [022] Ninth System Option Code

- | Option | Description   |
|--------|---|
| [1]    | <b>ON:</b> An access code is required for access to the [*][1], [*][2], [*][3] menus.<br><b>OFF:</b> No access code is required for [*][1], [*][2], [*][3] menu access. |
| [2]    | <b>ON:</b> The keypad will blank after the programmed time has expired when armed.<br><b>OFF:</b> After arming, the keypad will not blank.                              |
| [3]    | <b>For Future Use</b>   |
| [4]    | <b>ON:</b> Only the Master code can be used to bypass a hold up zone. <b>OFF:</b> Any valid access code can bypass a hold up zone.                                      |
| [5]    | <b>ON:</b> PGM types 5, 6, 17 and 18 will deactivate when keypad blanking occurs. <b>OFF:</b> PGMs will not time out.   |

- [6] **ON:** RF Delinquency Enabled, if any wireless zone supervisory transmission is not received by the PC5132 during a 15-minute period, the PC5132 will place the panel into Not Ready To Arm mode. In the armed state, the Zone faults will generate tamper alarms. The panel will generate a silent trouble (NO trouble beeps but the Trouble LED is turned ON) called “RF Device Delinquency”, that’s only viewable in [\*][2] (Trouble Memory). The user can override the condition and arm the panel by using the feature.  
**OFF:** RF Delinquency Disabled, the system will not indicate an RF Delinquency when a zone supervisory transmission is not received during a 15 minute period.
- [7] **ON:** Arming will be cancelled if a zone is open at the end of exit delay.  
**OFF:** If a zone is open at the end of exit delay the system will arm with the zone open.
- [8] **ON:** When the system is armed in Stay mode, during the Exit delay, the system will sound 1 beep every 3 second.  
**OFF:** When the system is armed in Stay mode, the system will be silent during the Exit delay.

### Section [023] Tenth System Option Code

Option	Description
--------	-------------

- |     |  |
|-----|--|
| [1] | <b>ON:</b> The keypad [F] emergency key will only beep three times to acknowledge the button has been pressed. The system will not activate the bell output. <b>OFF:</b> The system will activate the bell output and beep the keypad.                                   |
| [2] | <b>ON:</b> 200 Baud Open/Close Identifier Toggle 200 Baud Open Close Identifier is 2 for arming 1 for disarming.<br><b>OFF:</b> 200 Baud Open/Close Identifier Toggle 200 Baud Open Close Identifier is 1 for arming 2 for disarming                                     |
| [3] | <b>ON:</b> The system will only transmit the Test Transmission reporting code if the system is armed at the time the system is programmed to report the event.<br><b>OFF:</b> The system will always report the Test Transmission reporting code at the programmed time. |
| [4] | <b>ON:</b> The system changes the Test Transmission Reporting Cycle Time from <b>Days</b> to <b>Hours</b> .<br><b>OFF:</b> The Test Transmission Reporting Cycle Time is in <b>Days</b> .  |
| [5] | <b>ON:</b> The user cannot switch from Away Arm mode to Stay Arm mode using the function keys. <b>OFF:</b> The user can switch arming modes.   |
| [6] | <b>ON:</b> The system does NOT disconnect. New events are transmitted only after the session is terminated.<br><b>OFF:</b> The system disconnects a listen in/two-way session if a new event occurs.   |
| [7] | <b>ON:</b> The system does NOT activate the keypad buzzer for any trouble condition (excluding Fire Troubles).<br><b>OFF:</b> The system annunciates troubles via the keypad buzzer (two beeps every 10 seconds) normally.   |
| [8] | <b>ON:</b> Keyswitches will always arm in away mode.<br><b>OFF:</b> Keyswitches will arm in away mode if an entry/exit zone is violated during exit delay.   |

### Section [030] Fast Loop Response

This section is used to determine the Loop Response Time for the main panel zones.

**ON:** The loop response time will be 36 mS. **OFF:** The loop response time will be 400 mS.

### Section [101] to [164] Zone Attributes

These sections are used to customize the operation of the zones. There are 16 toggle options in each Section:

Option	Description
--------	-------------

- |           |   |
|-----------|---|
| [1]       | <b>ON:</b> Alarms are audible (bell output). <b>OFF:</b> Alarms are silent.   |
| [2]       | <b>ON:</b> The bell output is steady (burglary). <b>OFF:</b> The alarm output pulses (fire).  |
| [3]       | <b>ON:</b> A zone violation or restoral will activate Chime. <b>OFF:</b> Chime is not activated.  |
| [4]       | <b>ON:</b> The user can manually bypass the zone using the [*][1] command.<br><b>OFF:</b> The zone cannot be manually bypassed.   |
| [5]       | <b>ON:</b> The partition can be armed even if the zone is violated (the zone will not affect the Ready status).<br><b>OFF:</b> The zone must be secure before arming.                                   |
| [6]       | <b>ON:</b> The system shuts down alarm reporting after the programmed number of alarms have occurred.<br><b>OFF:</b> The panel will always report the event if an alarm occurs.                         |
| [7]       | <b>ON:</b> The system delays reporting the event for the time programmed for the Transmission Delay time.<br><b>OFF:</b> The panel immediately transmits the reporting event when an alarm is detected. |
| [8]       | <b>ON:</b> The zone is either a wireless or addressable device.<br><b>OFF:</b> The zone is a hardwire zone (main panel, zone expander or keypad zone).  |
| [9]       | <b>ON:</b> The zone has the Cross Zone feature enabled. <b>OFF:</b> The zone functions normally.  |
| [10]-[13] | <b>For Future Use</b>   |

- [14] **ON:** Zone requires a normally-closed loop.  
**OFF:** The zone will follow the End-of-Line configuration in Section [013].
- [15] **ON:** Zone requires a single End-of-Line resistor.  
**OFF:** The zone will follow the EOL configuration in Section [013].
- [16] **ON:** Zone requires a double End-of-Line resistors.  
**OFF:** The zone will follow the End-of-Line configuration in Section [013].

**ⓘ Keypad zones and zone expanders will always follow Section [013].**

When Zone Types (Section [001] to [004]) are programmed, the system will change the Zone Attributes to those found in the chart included in the Programming Worksheets. The Zone Attributes will default if a new Zone Type is programmed for a specific zone.

After programming the Zone Types, enter Section [101] to [164] and ensure that all options are programmed correctly

Ready light **ON:** Program attributes [1-8].

Ready light /Armed light **ON:** Program attributes [9-16] (Press [1]-[8] to turn option **ON** or **OFF**.)

Press [9] to switch between attributes [1-8] and attribute [9-16].

### Section [165] Maximum Dialing Attempts

Program the Maximum Dialing Attempts before the panel will generate a Failure to Communicate (FTC) trouble condition.

Valid entries are [001] to [005].

### Section [166] Post Dial Wait for Handshake

Program the maximum time the panel will wait, after dialing, for a valid handshake from the central station.

Valid entries are [001] to [255] seconds.

### Section [167] T-Link Communications Wait for Acknowledgement

Program the maximum time the panel will wait, after sending a data packet, for an acknowledgement from the central station.

Valid entries are [001] to [255] seconds.

### Section [168] Daylight Savings Time (Move Clock Ahead)

These sections are used to program the Date, Time and Increment that the clock will move ahead for Daylight Savings Time each year. Programming can be accomplished by programming the Month, Day, Hour and Increment or Month, Week, Day of Week, Hour and Increment:

**Month** Data [001] to [012] represents January to December.

**Week** Data [000] indicates that the day of the month will be programmed in the **Day** section below. Data [001] to [005] represents weeks 1 to 5 of the month. Week 5 always represents the last week in the month, regardless of the number of weeks in the month.

**Day** Data [001] to [031] represents day of the month if [000] was programmed in the **Week** section above. If [001] to [005] was programmed in the **Week** Section above, then Data [000] to [006] represents Sunday to Saturday.

**Hour** Data [000] to [022] represents the hour that Daylight Saving Time will take effect.

**Increment** Data [001] to [002] represents the number of hours to advance the clock for Daylight Savings Time.

**ⓘ Do not program the Hour outside of the valid range or the time will not change. Do not program the value of the Increment to be greater than the number of hours remaining in the current day.**

### Section [169] Standard Time (Set Clock Back)

These sections are used to program the Date, Time and Increment that the clock will move back for Standard Time each year. Programming can be accomplished by programming the Month, Day, Hour and Increment or Month, Week, Day of Week, Hour and Increment:

**Month** Data [001] to [012] represents January to December.

**Week** Data [000] indicates that the day of the month will be programmed in the **Day** section below. Data [001] to [005] represents weeks 1 to 5 of the month. Week 5 always represents the last week in the month, regardless of the number of weeks in the month.

**Day** Data [001] to [031] represents day of the month if [000] was programmed in the **Week** section above. If [001] to [005] was programmed in the **Week** Section above, then Data [000] to [006] represents Sunday to Saturday.

**Hour** Data [000] or [023] represents the hour that Standard Time will take effect.

**Increment** Data [001] or [002] represents the number of hours to roll back the clock for Daylight Savings Time.

### Section [170] PGM Output Timer

Program the time, in seconds, PGM outputs programmed to follow the PGM Output Timer will activate for. Valid entries are [001] to [255].

### Section [171] Tamper PGM Output Timer

Programs the time in minutes that a tamper condition will latch the Tamper PGM output. Valid entries are [000] to [255].

**Section [173] Bell Delay Timer**

Programs the time in minutes the panel will delay activating the bell output when an alarm occurs. If a TLM trouble condition is detected, the Bell Delay Timer will be aborted. Valid entries are [001] to [255].

**Section [175] Auto-arm Postpone Timer**

Programs the time in minutes that the system will postpone automatic arming. After the programmed time, the system will attempt to auto-arm again. If data [000] is programmed, the system will instead abort the auto-arm sequence. Valid entries are [001] to [255].

**Section [176] Cross Zone/Police Code Timer**

Programs the time in seconds (Cross Zone) or minutes (Police Code) that the panel will use to determine if a Cross Zone or Police Code event has occurred. If data [000] is programmed when using the Police Code feature, the panel will generate a Police Code event if any two zones go into alarm during any armed-to-armed period. Valid entries are [001] to [255].

**Section [181] to [188] Auto-arm Schedules**

Programs the time to auto-arm (Section [181] for Partition 1, Section [182] for Partition 2 etc.) for each day of the week. Each Section has seven, 4-digit entries, two digits for the hour, two digits for the minute, for Sunday through Saturday. Program using the military format (for example, to auto-arm at 8:00 pm program data [20][00]). Valid entries are [00][00] to [23][59] – program [99][99] to disable auto-arming.

**Section [190] No Activity Arming Pre-Alert Duration**

Programs the time in minutes for the No Activity Arming Pre-Alert Duration. The keypads will provide a steady tone warning the user that the system will arm. The user can either violate a zone or press any key to abort the arming sequence. Valid entries are [000] to [255].

**Section [191] to [198] No Activity Arm Timer**

Programs the time in minutes for the No Activity Arm Timer (Section [191] for Partition 1, Section [192] for Partition 2 etc.). If Delay Zones are restored and no zone activity is detected for the time programmed, the system will start the auto-arm sequence. Valid entries are [000] to [255].

**Section [199] Auto-arming Pre-Alert Timer**

Programs the time in minutes for the Auto-arming Pre-Alert Time. This timer is used for all programmed auto-arming features (is not used for No Activity Arming). The keypads will provide a steady tone warning the user that the system will arm. The user can enter a valid access code to abort the arming sequence. Valid entries are [000] to [255].

**Section [201] Partition Selection Mask**

Turn the corresponding option **ON** to enable partitions [1] to [8]. **ON** (bit 1 cannot be turned **OFF**).

**Section [202] to [265] Partition Zone Assignments**

These Sections are used to assign zones to specific partitions (Section [202] to [209] for Partition 1, Sections [210] to [217] for Partition 2 etc.). Turn **ON** the option corresponding to the partition and zone to enable the zone on the specified partition. Turn the option **OFF** to disable the zone on the specified partition. Zones assigned to more than one partition are called 'common zones' and will only be armed if all the partitions the zone is assigned to are armed. Default = Zones 1-8 enabled on Partition 1.

**Section [301] First Telephone Number**

The information in this section also applies to sections [302] and [303]. Telephone number 3 is dedicated as a back-up to Telephone number 1. These sections determine which type of communicator is activated in the event of an alarm (telephone, GPRS and Ethernet) and the sequence that the system follows in the event of an unsuccessful communication.

- Entry of [D] followed by a [Telephone Number] terminated with "F" configures the section for telephone dialing. E.g., [D12223334444F].
- Entry of [D] followed by [CAA] terminated with "F" allows the system configuration to be determined by the **GPRS/Ethernet** module. E.g., [DCAAF].
- Enter [DCBBF] to configure the section for **Ethernet Receiver 1**.
- Enter [DCCCF] to configure the section for **Ethernet Receiver 2**.
- Enter [DCDDF] to configure the section for **GPRS Receiver 1**.
- Enter [DCEEF] to configure the section for **GPRS Receiver 2**.

 **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.**

 **Please refer to your associated communicator manual for more details.**

**Telephone Communications**

All telephone number sections are 32 digits in length. Hexadecimal digits may be programmed in the telephone number to perform additional functions as follows:

- Enter [\*][2][\*] – HEX B to dial "\*".
- Enter [\*][3][\*] – HEX C to dial "#".
- Enter [\*][4][\*] – HEX D for an additional dial tone search, as is required for PBX telephone systems.
- Enter [\*][5][\*] – HEX E to insert a 2-second pause in the telephone number.

**i** There is an automatic 2-second pause before additional dial tone searches are initiated.

- HEX A is not used.
- HEX F represents the end of the phone number (everything after F is ignored).
- Pressing [#] in these sections will exit and save the entire phone number.
- The panel will not attempt to communicate, if no phone number is programmed. This applies to phone numbers 1 and 2.

### Section [302] Second Telephone Number

See [301] First Telephone Number for details.

### Section [303] Third Telephone Number

See [301] First Telephone Number for details.

### Section [304] Call Waiting Cancel String

Program the digits required to disable call waiting. If enabled, the system will dial the programmed string on the first dialing attempt. Program unused digits with data [F].

### Section [310] System Account Number

Program the System Account Number. Only the SIA format supports 6-digit account numbers. If a 4-digit account number is required, program the last two digits as data [FF]. If using the SIA format, this account number will be used for all reporting events. If using a different format, this account number will be used for all events that are not partition specific (for example, low battery, AC trouble etc.). For partition specific events the system will use the programmed Partition Account Number. For all formats other than SIA, program a HEX [A] for any digit [0] in the account number being used.

### Section [311] to [318] Partition Account Numbers

Program the Partition Account Number for each active partition (Section [311] for partition 1, Section [312] for partition 2 etc.). When using the Automatic SIA format, these account numbers are not used. The system will use the System Account Number for all reporting events. For all formats other than SIA, program a HEX [A] for any digit [0] in the account number being used.

### Section [320] to [349] Reporting Codes

Program the reporting code for all events to be transmitted. For description of when each reporting event will be transmitted, refer to Appendix A – Reporting Codes. The panel also supports Automatic SIA and Automatic Contact ID reporting. Program data [00] to disable the reporting of an event. If any other data is programmed (Data [01] to [FF]) the panel will automatically generate the correct reporting event when transmitting to the central station. For all formats excluding Automatic SIA and Automatic Contact ID, the panel will not attempt to report an event if data [00] or data [FF] is programmed for the reporting code.

### Section [350] Communicator Format

Program the 2-digit number for the desired Communicator Format for the First Phone Number and Second Phone Number. When dialing the Third Phone Number, the system will use the Communicator Format programmed for Phone Number 1. Valid entries are [01] to [13]. Refer to the Programming Worksheet for a list of the available Communicator Formats. See Appendix D for details.

### Section [351] to [376] Communicator Call Direction Options

Reporting events are categorized into 5 groups; Alarm/Restore, Opening/Closing, Tamper Alarm/Restore, System Maintenance and Test Transmissions. Program which Phone Number the control panel will use to transmit reporting events by turning the option ON in the correct Section. Phone Number 1 and/or Phone Number 2 can be used.

### Section [377] Communicator Variables

Program a 3-digit number for each program entry:

**Swinger Shutdown (Alarms):** Maximum number of alarm/restoral transmissions per zone. Valid entries: [001] to [014]. Program data [000] to disable shutdown.

**Swinger Shutdown (Tamper):** Maximum number of tamper alarm/restoral transmissions per zone. Valid entries: [000] to [014]. Program data [000] to disable shutdown.

**Swinger Shutdown (Trouble):** Maximum number of trouble alarm/restoral transmissions per trouble condition. Valid entries: [000] to [014]. Program data [000] to disable shutdown.

**Communicator (Transmission) Delay:** Time, in seconds, panel will delay reporting an alarm event. Valid entries: [000] to [255].

**AC Failure Communication Delay:** Time, in minutes, panel will delay reporting an AC trouble event. Valid entries: [000] to [255].

**TLM Trouble Delay:** Time, in 3 second checks, before the system will consider the phone line disconnected. Valid entries: [002] to [255] (e.g., 3 x10 seconds = 30 seconds). TLM Restoral follows the same delay.

**Test Transmission Cycle (Land Line):** Number of days between test transmission reporting events. Valid entries: [001] to [255].

#### For Future Use

**Wireless Zone Low Battery Delay:** Number of days the system will delay reporting a wireless low battery to the central station. Valid entries: [000] to [255]. Program data [000] for no delay.

**Delinquency Transmission Delay:** Number of hours (Activity Delinquency) or days (Arming Delinquency) the panel will delay before transmitting the event to the central station. Valid entries: [001] to [255].

**Communication Cancel Window:** Time, in minutes, after an alarm has occurred that the system will report a Communication Cancel reporting event if the system is disarmed. The keypad will beep rapidly to indicate the Communication Cancel reporting event has been communicated successfully. Valid entries: [001] to [255].

### Section [378] Test Transmission Time

Program the time the system will report a Test Transmission reporting event. Program 4 digits – [HH][MM] using military standard. For a test transmission at 11:00 pm, program data [23][00]. Valid entries are [00][00] to [23][59].

### Section [379] Periodic DLS Time of Day

Programs the time the system will auto-call DLS. Program 4 digits – [HH][MM] using military standard. For a DLS auto-call at 11:00 pm, program data [23][00]. Valid entries are [00][00] to [23][59]. Programming [99][99] will select a random time, [FF][FF] will disable it.



### Section [380] First Communicator Option Code

#### Option Description

- [1] **ON:** The system communicator is enabled. **OFF:** The communicator is disabled.
- [2] **ON:** The system transmits alarm restorals if the zone is restored and the bell has timed out.  
**OFF:** The system transmits alarm restorals immediately when the zone is restored.
- [3] **ON:** The panel uses rotary (pulse) dialing. **OFF:** The panel uses touchtone (DTMF) dialing.
- [4] **ON:** The panel will switch from touchtone dialing to rotary dialing after the 4th failed attempt to communicate.  
**OFF:** The panel will use DTMF dialing for all dialing attempts.
- [5] **ON:** The system uses the Third Phone Number to back up the First Phone Number. **OFF:** the Third Phone Number is disabled.
- [6] **ON:** The system alternates between the First Phone Number and Third Phone Number when attempting to report an event.  
**OFF:** The panel will dial the First Phone Number for the programmed number of attempts, then switch to the Third Phone Number.
- [7] **For Future Use**
- [8] **ON:** The Delinquency feature follows zone activity. **OFF:** The Delinquency feature follows arming.

### Section [381] Second Communicator Option Code

#### Option Description

- [1] **ON:** The keypad beeps 8 times after successfully transmitting the **Opening After Alarm** reporting event.  
**OFF:** The keypad does not beep.
- [2] **ON:** The bell output squawks 8 times after successfully transmitting the **Opening After Alarm** reporting event.  
**OFF:** The bell output does not activate.
- [3] **ON:** The system uses programmed reporting codes when transmitting using the SIA format.  
**OFF:** The system automatically generates all reporting codes transmitted.
- [4] **ON:** The system beeps the keypad 8 times after successfully transmitting a **Closing** reporting event. **OFF:** the keypad does not beep.
- [5] **ON:** The system requests a **Listen in/Two-way** session the next time it calls the **1st/3rd Phone Number** when the PC59xx transmits a request. **OFF:** The system ignores the request from the PC59xx.  
 This Option is used with PC59xx series modules.
- [6] **ON:** The system requests a **Listen in/Two-way** session the next time it calls the **2nd Phone Number** when the PC59xx transmits a request. **OFF:** The system will ignore the request from the PC59xx.  
 This Option is used with PC59xx series modules.
- [7] **ON:** The system uses **Contact ID format** programmed reporting codes when transmitting reporting codes.  
**OFF:** The system automatically generates all reporting codes transmitted.
- [8] **For Future Use**

### Section [382] Third Communicator Option Code

#### Option Description

- [1] **ON:** The system will use the digit [5] as the first digit of the Partial Closing reporting code when transmitting Contact ID reporting codes.  
**OFF:** The system will use the digit [4] as the first digit of the Partial Closing reporting code when transmitting Contact ID reporting codes.
- [2] **ON:** The system will transmit all alarms during Walk Test. **OFF:** The system will not report alarm events during Walk Test.



- [3] **ON:** The keypad will display the message ‘**Communications Cancelled**’ (programmable LCD) or ‘**CC**’ (fixed-message LCD) upon successful transmission of the Communication Cancelled reporting event.  
**OFF:** The keypad will not display these messages.
- [4] **ON:** The system dials the **Call Waiting Cancel String** on the first attempt to dial the central station.  
**OFF:** The system does not dial the Call Waiting Cancel String.
- [5] **ON:** Enables support for the T-Link module. **OFF:** Disables T-Link.
- [6] **ON:** The **AC Failure Transmission Delay Timer** is in hours.  
**OFF:** The delay is in minutes.
- [7] **ON:** Sets the number of Dialing attempts to 1 when using Residential Dial Format.  
**OFF:** Residential Dial follows Dialing Attempt Counter.
- [8] **For Future Use**

### Section [383] Fourth Communicator Option Code

#### Option Description


- [1] **ON:** Events programmed to communicate to phone #1 will use the Partition Account Number programmed in section [311]. Events Programmed to communicate to phone #2 will use the Partition Account Number in section [312].  
**OFF:** Each events will use its respective partition account code.
- [2-8] **For Future Use**

### Section [389] T-Link Fault Check Timer

Programs the delay in seconds between T-Link module verification checks. Valid entries are [001]-[255].

### Section [401] First Downloading Option Code

#### Option Description

- [1] **ON:** The system answers incoming calls for downloading (either Programmed Number of Rings or Double Call).  
**OFF:** The system does not answer incoming calls using the double call routine for downloading.  
 These settings do not affect the 6 hour DLS downloading window on power up.
- [2] **ON:** The user can enable downloading for the DLS Window using the [\*][6] command.  
**OFF:** The user cannot enable downloading.
- [3] **ON:** The system will hang up after a successful DLS connection and call the computer back using the DLS Phone Number ( Section [402]). **OFF:** The system stays connected to the computer.
- [4] **ON:** The user can initiate a downloading session using the [\*][6] command. **OFF:** The user cannot initiate a downloading session.
- [5] **ON:** The system attempts to call the downloading computer after transmitting a Event Buffer 75% Full event to the central station.  
**OFF:** The system does NOT call the downloading computer after transmitting this event.
- [6]-[8] **For Future Use**

### Section [402] Downloading Computer Phone Number

The Downloading Computer Telephone Number is used for Call Back, User Initiated DLS and the Auto Event Buffer upload functions. Program the phone number as required. HEX digits can be included for special applications:

<b>HEX [A]</b>	Not used	<b>HEX [D]</b>	Additional dial tone search
<b>HEX [B]</b>	Simulates a [*] key press	<b>HEX [E]</b>	2-second pause
<b>HEX [C]</b>	Simulates a [#] key press	<b>HEX [F]</b>	End of phone number marker

### Section [403] Downloading Access Code

Program the 6-digit Downloading Access Code. Upon connection, the system will only connect to the downloading computer if the Downloading Access Code programmed matches the Downloading Access Code programmed in the computer file.

### Section [404] Panel Identification Code

Program the 6-digit Panel Identification Code. This code is used by the downloading computer to verify the correct account is calling back (Call Back feature) or to identify which customer account file should be used (User Initiated DLS and Auto Event Buffer Upload features).

### Section [405] Double-Call Timer

Program the maximum time, in seconds, between calls when connecting to panel using the double call feature. Valid entries are [000]-[255].

### Section [406] Number of Rings to Answer On

Program the number of consecutive rings the panel must detect to answer for downloading. Valid entries are [000] - [010].

## Section [499] PC-Link Communications

Enter the following command to initiate downloading via PC-Link – Section [499] [Installer Code] [499]. Plugging in the PC-Link connector will automatically initiate the connection if DLS is initiated before connecting the PC-Link Header.

## Section [501] to [514] Programmable Output Attributes

These Sections are used to customize the operation of the PGM outputs (Section [501] for PGM 1, Section [502] for PGM 2 etc.). The available options depend on which PGM output type is programmed. When the PGM Output Options (Section [009] to [011]) are programmed, the system will change the PGM Attributes to the default settings. The PGM Attributes will default if a new PGM output option is programmed.

### PGM Output Option [01], [03] to [08], [11] to [22], [25], [26], [28], [33], [34].

#### Option Description

- [3] **ON:** The PGM output will operate normally (switch to ground when activated).
- OFF:** The PGM output will be normally ground and switch to open collector (open circuit) when activated.

### PGM Output Option [03], [19] to [22]

#### Option Description

- [4] **ON:** The PGM output will activate for the duration of the PGM Output Timer when the [\*][7][x] command is performed.
- OFF:** The PGM output will latch until the [\*][7][x] command is performed again.
- [5] **ON:** A valid user code must be entered after the [\*][7][x] command.
- OFF:** A user code is not required.

### PGM Output Option [09]

#### Option Description

- [1] **ON:** PGM output activates if a Service Required trouble condition is present.
- [2] **ON:** PGM output activates if an AC trouble condition is present.
- [3] **ON:** PGM output activates if a Telephone Line trouble condition is present.
- [4] **ON:** PGM output activates if a Failure to Communicate trouble condition is present.
- [5] **ON:** PGM output activates if a Zone Fault condition is present.
- [6] **ON:** PGM output activates if a Zone Tamper condition is present.
- [7] **ON:** PGM output activates if a Wireless Low Battery trouble condition is present.
- [8] **ON:** PGM output activates if a Loss of Clock trouble condition is present.

### PGM Output Option [10]

#### Option Description

- [1] **ON:** PGM output activates if a Burglary Alarm occurs.
- [2] **ON:** PGM output activates if a Fire Alarm occurs.
- [3] **ON:** PGM output activates if a Panic Alarm occurs.
- [4] **ON:** PGM output activates if a Medical Alarm occurs.
- [5] **ON:** PGM output activates if a Supervisory Alarm occurs.
- [6] **ON:** PGM output activates if a Priority Alarm occurs.
- [7] **ON:** PGM output activates if a 24-Hour Hold-up Alarm occurs.
- [8] **ON:** the PGM output activates for the time programmed for the PGM Output Timer.
- OFF:** the PGM output will latch until a valid user code is entered.



If System Event PGM is programmed to follow the command output timer then all attributes must be enabled.

### PGM Output Option [31]

#### Option Description

- [1] **ON:** PGM output activates if a Fire Alarm occurs.
- [2] **ON:** PGM output activates if a Panic Alarm occurs.
- [3] **ON:** PGM output activates if a Burglary Alarm occurs.
- [4] **ON:** PGM output activates if an Opening/Closing occurs.

- [5] **ON:** PGM output activates if a zone is automatically bypassed.
- [6] **ON:** PGM output activates if a Medical Alarm occurs.
- [7] **ON:** PGM output activates if a confirmed alarms occurs and Police Code occurs.
- [8] **ON:** The PGM output is active when the selected condition is true.  
**OFF:** The PGM output will latch until a valid user code is entered.

#### PGM Output Option [32]

Option	Description
--------	-------------

[1]-[7]	<b>For Future Use</b>
---------	-----------------------

- |     |  |
|-----|--|
| [8] | <b>ON:</b> The PGM will activate for the duration programmed in PGM Output Timer.<br><b>OFF:</b> The PGM will activate when an Opening After Alarm occurs and will deactivate when a valid access code is entered. |
|-----|--|

#### PGM Output Option [29] and [35]-[41]

Option	Description
--------	-------------

[1]-[2]	<b>For Future Use</b>
---------	-----------------------

- |     |  |
|-----|--|
| [3] | <b>ON:</b> The PGM will switch to ground when the event occurs. <b>OFF:</b> the PGM will switch to open when the event occurs. |
|-----|--|


[4]-[7]	<b>For Future Use</b>
---------	-----------------------

- |     |  |
|-----|--|
| [8] | <b>ON:</b> The PGM follows AND logic, requiring, all assigned zones to be violated to activate and will de-activate whenever any one of the assigned zones is restored. <b>OFF:</b> The PGM follows OR logic, requiring any one assigned zone to be violated to activate and will de-activate only when all assigned zones are restored. |
|-----|--|

 Zones are assigned to this PGM in the PGM Partition Assignment Section [551]-[564].

#### Section [551] to [564] PGM Partition Assignment

These sections are used to customize the operation of the PGM outputs (Section [551] for PGM 1, Section [552] for PGM 2 etc.). Turn on the correct option in the correct section to assign the PGM output to a specified partition. PGM outputs can be assigned to more than one partition. For PGM outputs that are considered 'system' outputs (e.g., Trouble output), programming in these sections will not affect the operation of the PGM output. For Zone Follower PGM types 29, 35-41 these sections are used to assign specific zones to the PGM.

 **Any one Command Output PGM type cannot be assigned to more than one partition.**

#### Section [601] to [608] Additional Reporting Codes

Programs the reporting code for all events to be transmitted. For description of when each reporting event will be transmitted, refer to Appendix A – Reporting Codes. The panel also supports Automatic SIA and Automatic Contact ID reporting. Program data [00] to disable the reporting of an event. If any other data is programmed (Data [01] to [FF]) the panel will automatically generate the correct reporting event when transmitting to the central station. For all formats excluding Automatic SIA and Automatic Contact ID, the panel will not attempt to report an event if data [00] or data [FF] is programmed for the reporting code.

#### Section [681] to [688] Auto-disarm Schedules

Program the time to auto-disarm (Section [681] for Partition 1, Section [682] for Partition 2 etc.) for each day of the week. Each Section has seven, 4-digit entries, 2 digits for the hour, 2 digits for the minute, for Sunday through Saturday. Program using military format (for example, to auto arm at 8:00 pm program data [20][00]). Valid entries are [00][00] to [23][59] – program [99][99] to disable auto-disarming.

#### Section [691] to [698] Auto-disarm Holiday Schedule

Program the dates to be used for Auto-disarm holiday schedule (Section [691] for Partition 1, Section [692] for Partition 2 etc.) Each Section has fourteen, 6-digit entries, two digits for the month, two digits for the day and two digits for the year. The panel will not disarm on the programmed dates. The format of entering the date is MMDDYY. Program [99][99][99] to disable auto-disarm holiday schedule.

#### Section [700] Automatic Clock Adjust

Program the number of seconds for the last minute of the day. This can be used to make minor corrections to the clock if the AC frequency is not reliable. Valid entries are [01] to [99].

#### Section [701] First International Option Code

Option	Description
--------	-------------

- |     |   |
|-----|---|
| [1] | <b>ON:</b> Configures the system for 50Hz AC. <b>OFF:</b> Configures the system for 60Hz AC.  |
| [2] | <b>ON:</b> The system uses the internal crystal for the internal panel clock.<br><b>OFF:</b> The system uses the AC frequency for the internal panel clock. |

- [3] **ON:** The system will inhibit arming if a Low Battery or AC trouble condition is present.  
**OFF:** Arming will not be inhibited.
- [4] **ON:** All Tamper troubles will latch and arming will be inhibited. Enter Installer Programming to clear the trouble condition and return to normal operation.  
**OFF:** Tamper troubles will not latch and will not inhibit arming.
- [5] **ON:** All access codes are 6 digits long. **OFF:** All access codes are 4 digits long.
- [6] **ON:** The system will hang up if a busy tone is detected. This attempt is not counted towards the **Maximum Dialing Attempts** programmed. **OFF:** The panel will not detect busy tones.
- [7] **ON:** The system will charge the battery at approximately 700mA. **OFF:** The system will charge the battery at 400mA.
- [8] **ON:** The system will abort a DLS session, Escort access, Listen In/Two-way session if a new central station communication event occurs. **OFF:** Non-critical events (Test transmission, Periodic Test and System Test) will not abort the session. Events will be communicated after the session is complete.

### Section [702] Second International Option Code

Option	Description
--------	-------------

- |     |  |
|-----|--|
| [1] | <b>ON:</b> The communicator uses 33/67 make/break ratio when pulse dialing.<br><b>OFF:</b> The system uses 40/60 make/break ratio.   |
| [2] | <b>ON:</b> The system dials regardless of the presence of dial tone after the first attempt.<br><b>OFF:</b> The system dials only if dial tone is detected.  |
| [3] | <b>ON:</b> changes the Test Transmission Cycle Time to minutes.<br><b>OFF:</b> Sends a Test Transmission after the programmed number of days.  |
| [4] | <b>ON:</b> The system accepts 1600Hz handshake pulse formats.<br><b>OFF:</b> The system accepts 1400Hz or 2300Hz handshakes.   |
| [5] | <b>ON:</b> The system generates a tone for 500mS every 2 seconds indicating digital equipment is making the call vs. a voice call.<br><b>OFF:</b> The system does not generate a tone.   |
| [6] | <b>ON:</b> The tone generated (2100Hz.) indicates that digital equipment is making the call.<br><b>OFF:</b> The tone is 1300Hz.  |
| [7] | <b>ON:</b> The DLS downloading window is 1 hour.<br><b>OFF:</b> The DLS downloading window is 6 hours.   |
| [8] | <b>ON:</b> The system activates the bell output if a <b>Failure to Communicate</b> trouble occurs while the system is armed.<br><b>OFF:</b> The system does NOT activate the bell output if a Failure to Communicate trouble occurs while the system is armed. |

### Section [703] Delay Between Dialing Attempts

Program the time the panel will wait between dialing attempts to transmit a reporting event to the central station.

Valid entries are [001] to [255].

### Section [800]-[851] Module Programming

The following program sections are used to program different modules that can be connected to the control panel. Refer to the respective Installation Manual for installation and programming information.

Section [801] PC5400 Printer Module Programming

Section [802] PC59xx VOX Module Programming

Section [803] Alternate Communicator Programming

Section [804] Wireless Programming

Section [805] PC5100 Addressable Programming

Section [851] T-Link Communicator Programming

## Special Installer Functions

### Section [899] Template Programming

Selecting [\*][8] [Installer Code] [899] displays the current 5 digit template programming code. Refer to Appendix C - Template Programming for a detailed description of available templates and corresponding 5 digit codes. After entering a valid 5 digit template programming code, you will be prompted to enter the following in the sequence below:

#### 1. Central Station Telephone Number, enter 32 Character Telephone number

Program the required Central Station phone number. Press [#] to complete your entry. This phone number will be entered into programming section [301].

#### 2. Central Station Account Code, enter 6-digit code

Program the required Central Station Account Code. Press [#] to complete your entry. This account code will be entered into programming section [310].

#### 3. Partition Account Code, enter 4-digit code

This programming section will only be prompted if Contact ID has been selected as a communications format. Program the required Partition Account Code. Press [#] to complete your entry. This Partition account code will be entered into programming section [311].

#### 4. DLS Access Code, enter 6-digit code

Program the required DLS Access Code. This Access Code will be entered into programming section [403].

#### 5. Partition 1 Entry Delay 1, Partition 1 Exit Delay, enter each 3-digit delay time

Program the desired 3 digit Partition 1 Entry Delay (in seconds) followed by the desired 3 digit Partition 1 Exit Delay (in seconds). Press [#] to complete your entry. These values will be entered in programming section [005] sub-section [01] entry 1 and 3 respectively.

#### 6. Installers Code

Enter the required 4 or 6 digit access code installers access code (dependent on Section [701] option 5). Press [#] to complete your entry. This Installer Access Code will be entered into programming section [006].

After the Installers Code has been programmed the keypad will return to base installers programming menu.



All template programming information must be re-entered after performing a hardware or software panel default.

### Section [900] Panel Version Displayed

Only available with LCD5500 or PK5500 keypads. The system will display the version of the control panel (for example, [0410] indicates panel version 4.10).

### Section [901] Installer Walk Test

The system will turn Installer Walk Test **ON**. The Ready, Armed and Trouble LED's will flash rapidly while the test is active. Every time a zone is violated the system will activate the bell output for two seconds and log the event to the event buffer. To turn Installer Walk Test **OFF** enter Section [901] again. The system automatically terminates the test if there is no zone activity for 15 minutes.

### Section [902] Module Supervision Reset

All modules are automatically detected within one minute after being connected to the Keybus. Enter Section [902] to clear detected modules if a module is removed, if PC5108 jumpers are changed, or if a keypad slot assignments are programmed. The system will rescan the Keybus to determine which modules are connected.

### Section [903] View Module Supervision

The keypad will display the modules detected by the system by turning on the associated zone light (LED keypads), flashing the numbers (fixed-message LCD keypads) or displaying the modules detected in plain language (programmable LCD keypads). Refer to the chart:

Indicator Light (Zone)	Module	Indicator Light (Zone)	Module
[01] to [08]	Keypad in Slot #1 to #8	[19]	PC5204 Module
[09] to [14]	PC5108 Zone Expander #1 to #6	[20]	PC5400 Module
[15]	PC5100 Module	[21]	PC59xx Module
[16]	PC5108 Zone Expander #7	[22]	Alternate Communicator
[17]	RF5132 Module or RFK keypad with wireless receiver	[24]	Escort5580 or Escort5580TC
[18]	PC5208	[26] to [29]	PC5200 #1 to #4

### Section [904] Wireless Placement Test

Enter Section [904] followed by the 2-digit number of the wireless zone to test. When a wireless signal is received from the selected transmitter, the system will indicate the location as **Good** or **Bad** as follows:

**Good:** One bell squawk, 1 keypad beep, keypad zone light [1] **ON**.

**Bad:** Three bell squawks, 3 keypad beeps, keypad zone light [3] **ON**.

Press [#] to exit when testing is complete. Enter the 2-digit zone number for the next wireless device to test or press [#] to return to standard programming.

### Section [989] Default Master Code

Enter Section [989][Installer Code][989] to reset the master code to the factory default.

### Section [990] Installer Lockout Enable

Enter Section [990][Installer Code][990] to enable the Installer Lockout feature. A hardware default cannot be performed when the Installer Lockout feature is **ON**. In addition, the system will chatter the line seizure relay 10 times if the panel is powered up to indicate the feature is **ON**.

### Section [991] Installer Lockout Disable

Enter Section [991][Installer Code][991] to turn the Installer Lockout feature **OFF**.

### Section [993] to [999] Factory Default Module/Panel

The following Sections can be used to factory default a module or the main control panel. Enter the appropriate Section, followed by the Installer Code, followed by the Section number (E.g., [993][Installer Code][993])

<b>Section [993]</b>	Factory Default Alternate Communicator
<b>Section [995]</b>	Factory Default Escort5580 Module
<b>Section [996]</b>	Factory Default Wireless Receiver
<b>Section [997]</b>	Factory Default PC5400 Module
<b>Section [998]</b>	Factory Default PC59xx Module
<b>Section [999]</b>	Factory Default Main Control Panel

### Hardware Reset (Default) Main Control Panel

Perform the following to default the main control panel:

1. Power down the system completely.
2. Connect a short between Zone 1 and PGM1 on the control panel (remove all other wires from these terminals).
3. Power up the control panel (AC power only) for 10 full seconds.
4. Power down the control panel, remove short between Zone 1 and PGM1.
5. Power up the control panel.



## Section 5: Programming Worksheets

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## 5.2 Programming Worksheets

### Keypad Partition /Slot and Function Key Programming

#### [000] Keypad Enrollment

**1** This must be done at each keypad requiring programming.

[0] Slot address [Valid entries are 0-8 for the partition, 1-8 for the slot. (e.g., to enroll a keypad in partition 3 and slot 1, enter (31))]

[1] Function Key 1 Assignment (Valid entries are 00-32)

[2] Function Key 2 Assignment (Valid entries are 00-32)

[3] Function Key 3 Assignment (Valid entries are 00-32)

[4] Function Key 4 Assignment (Valid entries are 00-32)

[5] Function Key 5 Assignment (Valid entries are 00-32)

#### Function Key Options:

00 Not used	11 [*][5] Access Code Programming	22 Global Disarming
01 Select Partition 1	12 [*][6] User Functions	23 Bypass Recall
02 Select Partition 2	13 Command Output #1 [*][7][1]	24 Recall Bypass Group
03 Stay Arm	14 Command Output #2 [*][7][2]/Sensor Reset	25 For Future Use
04 Away Arm	15 Global Stay Arming	26 Time and Date
05 [*][9] No-Entry Arm	16 [*][0] Quick Exit	27 Select Partition 3
06 [*][4] Chime On / Off	17 [*][1] Reactivate Stay/Away Zones	28 Select Partition 4
07 [*][6][—][4] System Test	18 Global Away Arming	29 Select Partition 5
08 [*][1] Bypass Mode	19 Command Output 3 [*][7][3]	30 Select Partition 6
09 [*][2] Trouble Display	20 For Future Use	31 Select Partition 7
10 [*][3] Alarm Memory	21 Command Output 4 [*][7][4]	32 Select Partition 8

	Partition/ Slot	[20] Zone Assigned	Key 1	Key 2	Key 3	Key 4	Key 5
<b>ICON / LED Defaults</b>	<b>11</b>	<b>00</b>	<b>03</b>	<b>04</b>	<b>06</b>	<b>14</b>	<b>16</b>
<b>Full Message Defaults</b>	<b>18</b>	<b>00</b>	<b>03</b>	<b>04</b>	<b>06</b>	<b>14</b>	<b>16</b>
<b>KEYPAD 1</b>		<b>00</b>					
<b>KEYPAD 2</b>		<b>00</b>					
<b>KEYPAD 3</b>		<b>00</b>					
<b>KEYPAD 4</b>		<b>00</b>					
<b>KEYPAD 5</b>		<b>00</b>					
<b>KEYPAD 6</b>		<b>00</b>					
<b>KEYPAD 7</b>		<b>00</b>					
<b>KEYPAD 8</b>		<b>00</b>					

**1** Shaded programming sections indicate the default programming

#### [001]-[004] Zone Definitions

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

\*For burglary applications only

\*\* For residential fire applications only

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

[005] System Times

[01] Partition 1 Entry/Exit times

030 |\_|\_|\_| Entry Delay 1  
 045 |\_|\_|\_| Entry Delay 2  
 060 |\_|\_|\_| Exit Delay

[02] Partition 2 Entry/Exit times

030 |\_|\_|\_| Entry Delay 1  
 045 |\_|\_|\_| Entry Delay 2  
 060 |\_|\_|\_| Exit Delay

[03] Partition 3 Entry/Exit times

030 |\_|\_|\_| Entry Delay 1  
 045 |\_|\_|\_| Entry Delay 2  
 060 |\_|\_|\_| Exit Delay

[04] Partition 4 Entry/Exit times

030 |\_|\_|\_| Entry Delay 1  
 045 |\_|\_|\_| Entry Delay 2  
 060 |\_|\_|\_| Exit Delay

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

005 |\_|\_|\_| Enter 3 digits from 001-255

[05] Partition 5 Entry/Exit times

030 |\_|\_|\_| Entry Delay 1  
 045 |\_|\_|\_| Entry Delay 2  
 060 |\_|\_|\_| Exit Delay

[06] Partition 6 Entry/Exit times


030 |\_|\_|\_| Entry Delay 1  
 045 |\_|\_|\_| Entry Delay 2  
 060 |\_|\_|\_| Exit Delay

[07] Partition 7 Entry/Exit times

030 |\_|\_|\_| Entry Delay 1  
 045 |\_|\_|\_| Entry Delay 2  
 060 |\_|\_|\_| Exit Delay

[08] Partition 8 Entry/Exit times

030 |\_|\_|\_| Entry Delay 1  
 045 |\_|\_|\_| Entry Delay 2  
 060 |\_|\_|\_| Exit Delay

 Entry delay shall be no longer than 45 seconds for systems compliant with EN50131-1 and TS50131-3 standards.

**[006] Installer's Code**

**Default**

5555

**[007] For Future Use**

This section is not available to the installer. The master code can be restored to default in section [989] Default Master Code.

**[008] Maintenance Code**

**Default**

AAAA

**Programmable Output Options**

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

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

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

**i** PC1616 and PC1832 have 2 onboard PGMs (PGM 1 and 2). PC1864 has 4 onboard PGMs (PGM 1-4).

**i** Program PGM Option Attributes in sections [501] - [514]. Program PGM partitions in sections [551] - [564].

**Default**

03   PGM 1

**Default**

10   PGM 2

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

**i** Program PGM Option Attributes in sections [501] - [514]. Program PGM partitions in sections [551] - [564].

**Default**

01   PGM 3 (main panel/PC5208)\*  
 01   PGM 4 (main panel/PC5208)\*  
 01   PGM 5 (PC5208)  
 01   PGM 6 (PC5208)

**Default**

01   PGM 7 (PC5208)  
 01   PGM 8 (PC5208)  
 01   PGM 9 (PC5208)  
 01   PGM 10 (PC5208)

*These two 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 the same as the first PC5208 output, and PGM4 will work the same as the second PC5208 output.*

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

**i** Program PGM Option Attributes in sections [501] - [514]. Program PGM partitions in sections [551] - [564].

**Default**

01   PGM 11  
 01   PGM 12

**Default**

01   PGM 13  
 01   PGM 14

**Other System Options**

**[012] Keypad Lockout Options**

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

**Default**

000    Number of Invalid Codes Before Lockout (001-255 codes)  
 000    Lockout Duration (001-255 minutes)

**[013] First System Options**

Opt	Def	ON	OFF
1	<input type="checkbox"/>	Normally Closed Loops	✓ <input type="checkbox"/> End-of-line Resistors
2	<input type="checkbox"/>	Double End-of-line Resistors	✓ <input type="checkbox"/> Single End-of-line Resistors
3	<input type="checkbox"/>	Panel shows all Troubles when armed	✓ <input type="checkbox"/> Panel shows only Fire Troubles when armed
4	<input type="checkbox"/>	Tampers/Faults do not show as open	✓ <input type="checkbox"/> Tampers/Faults show as open
5	✓ <input type="checkbox"/>	Auto Arm Schedule in [*][6] and installers	<input type="checkbox"/> Auto-arm Schedule in Installer Programming Only
6	✓ <input type="checkbox"/>	Audible Exit Fault Enabled	<input type="checkbox"/> Audible Exit Fault Disabled
7	✓ <input type="checkbox"/>	Event Buffer Follows Swinger Shutdown	<input type="checkbox"/> Event Buffer Logs Events past Shutdown
8	<input type="checkbox"/>	Temporal Three Fire Signal Enabled	✓ <input type="checkbox"/> Standard Pulsed Fire Signal

**[014] Second System Options**

Opt	Def	ON	OFF
1	<input type="checkbox"/>	Arm /Disarm Bell Squawk Enabled	✓ <input type="checkbox"/> Arm /Disarm Bell Squawk Disabled
2	<input type="checkbox"/>	Bell Squawk During Auto-arm	✓ <input type="checkbox"/> No Bell Squawk During Auto-arm
3	<input type="checkbox"/>	Bell Squawk On Exit Delay	✓ <input type="checkbox"/> No Bell Squawk On Exit Delay
4	<input type="checkbox"/>	Bell Squawk On Entry Delay	✓ <input type="checkbox"/> No Bell Squawk On Entry Delay
5	<input type="checkbox"/>	Bell Squawk On Trouble	✓ <input type="checkbox"/> No Bell Squawk On Trouble
6	✓ <input type="checkbox"/>	Audible Exit with Urgency	<input type="checkbox"/> Silent Exit Delay
7	<input type="checkbox"/>	Exit Delay Termination Enabled	✓ <input type="checkbox"/> Exit Delay Termination Disabled
8	<input type="checkbox"/>	Residential Fire Bell is Continuous	✓ <input type="checkbox"/> Residential Fire Bell is Cut-off

**[015] Third System Options**

Opt	Def	ON	OFF
1	✓ <input type="checkbox"/>	Fire Key Enabled	<input type="checkbox"/> Fire Key Disabled
2	<input type="checkbox"/>	Panic Key Audible (Bell / Beeps)	✓ <input type="checkbox"/> Panic Key Silent
3	<input type="checkbox"/>	Quick Exit Enabled	✓ <input type="checkbox"/> Quick Exit Disabled
4	✓ <input type="checkbox"/>	Quick Arming Enabled (No Code Required)	<input type="checkbox"/> Quick Arming Disabled (Code Required)
5	<input type="checkbox"/>	Code Required for Bypassing	✓ <input type="checkbox"/> NO Code Required for Bypassing
6	<input type="checkbox"/>	Master Code NOT Changeable	✓ <input type="checkbox"/> Master Code Changeable
7	✓ <input type="checkbox"/>	TLM Enabled	<input type="checkbox"/> TLM Disabled
8	<input type="checkbox"/>	TLM Audible (Bell) when Armed	✓ <input type="checkbox"/> TLM Trouble Beeps when Armed

**i** Programming option indicated in GRAY are required for systems compliant with EN50131-1 and TS50131-3 standards

**[016] Fourth System Options**

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

**[017] Fifth System Options**

Opt	Def	ON	OFF
1	✓	<input type="checkbox"/> WLS Key Does NOT use Access Codes	<input type="checkbox"/> WLS Key Uses Access Codes
2	✓	<input type="checkbox"/> RF Jam Log after 5 Minutes	<input type="checkbox"/> RF Jam Log after 30 Seconds
3		<input type="checkbox"/> Audible RF Jam Trouble Beeps	✓ <input type="checkbox"/> Silent RF Jam Trouble Beeps
4		<input type="checkbox"/> Double Hit Enabled	✓ <input type="checkbox"/> Double Hit Disabled
5		<input type="checkbox"/> Late to Close Enabled	✓ <input type="checkbox"/> Late to Close Disabled
6	✓	<input type="checkbox"/> Daylight Savings Time Enabled	<input type="checkbox"/> Daylight Savings Time Disabled
7		<input type="checkbox"/> For Future Use	<input type="checkbox"/>
8		<input type="checkbox"/> Squawk on Away Key Arming/Disarming Only	✓ <input type="checkbox"/> Squawk on all Arming/Disarming


**[018] Sixth System Options**

Opt	Def	ON	OFF
1		<input type="checkbox"/> Test Transmission Exception Enabled	✓ <input type="checkbox"/> Test Transmission Exception Disabled
2		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>
3		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>
4		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>
5		<input type="checkbox"/> Keypad Buzzer Follows Bell Enabled	✓ <input type="checkbox"/> Keypad Buzzer Follows Bell Disabled
6		<input type="checkbox"/> Cross Zoning Enabled	✓ <input type="checkbox"/> Police Code Enabled
7	✓	<input type="checkbox"/> Exit Delay Restart Enabled	<input type="checkbox"/> Exit Delay Restart Disabled
8		<input type="checkbox"/> AC Trouble Beeps Enabled	✓ <input type="checkbox"/> AC Trouble Beeps Disabled

**[019] Seventh System Options**

Opt	Def	ON	OFF
1		<input type="checkbox"/> Audible Wireless Zone Fault While Armed	✓ <input type="checkbox"/> Wireless Zone Fault does not sound Bell
2		<input type="checkbox"/> Troubles are Latching	✓ <input type="checkbox"/> Troubles follow restore
3		<input type="checkbox"/> First Zone in Alarm Enabled	✓ <input type="checkbox"/> First Zone in Alarm Disabled
4		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>
5		<input type="checkbox"/> Keybus Fault Sounds Bell	✓ <input type="checkbox"/> Keybus Fault Does Not Sound Bell
6		<input type="checkbox"/> Green Keypad LED Power Indication	✓ <input type="checkbox"/> Ready Indication
7		<input type="checkbox"/> [*][6] Accessable by All Users	✓ <input type="checkbox"/> [*][6] Accessable to Master Code Only
8		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>

**Keypad Zone Assignments****[020] Keypad Zone Assignments**

 Only one keypad may be assigned to a zone.

**Default**

00	<input type="checkbox"/>	Keypad (slot 1) Zone
00	<input type="checkbox"/>	Keypad (slot 2) Zone
00	<input type="checkbox"/>	Keypad (slot 3) Zone
00	<input type="checkbox"/>	Keypad (slot 4) Zone
00	<input type="checkbox"/>	Keypad (slot 5) Zone
00	<input type="checkbox"/>	Keypad (slot 6) Zone
00	<input type="checkbox"/>	Keypad (slot 7) Zone
00	<input type="checkbox"/>	Keypad (slot 8) Zone

**[021] Eighth System Options**

Opt	Def	ON		OFF
1	<input type="checkbox"/>	Access Code Entry Blocked During Entry Delay	✓	<input type="checkbox"/> Access Code Entry Not Blocked During Entry Delay
2	<input type="checkbox"/>	EN Entry Procedure	✓	<input type="checkbox"/> Standard Entry Procedure
3	<input type="checkbox"/>	For Future Use	✓	<input type="checkbox"/>
4	<input type="checkbox"/>	For Future Use	✓	<input type="checkbox"/>
5	<input type="checkbox"/>	For Future Use	✓	<input type="checkbox"/>
6	<input type="checkbox"/>	Keyswitch Disarming During Entry Delay Only	✓	<input type="checkbox"/> Keyswitch Disarming at Any Time
7	<input type="checkbox"/>	Installers Access Follows DLS Window	✓	<input type="checkbox"/> Installers can be Accessed Anytime
8	<input type="checkbox"/>	Arming Inhibit for All Troubles	✓	<input type="checkbox"/> Troubles Do Not Inhibit Arming

**i** Programming option indicated in GRAY are required for systems compliant with EN50131-1 and TS50131-3 standards

**[022] Ninth System Options**

Opt	Def	ON		OFF
1	<input type="checkbox"/>	Access Code Req'd for [*][1], [*][2], [*][3]	✓	<input type="checkbox"/> No Access Code Req'd for [*][1], [*][2], [*][3]
2	<input type="checkbox"/>	Keypad Blanking While Armed	✓	<input type="checkbox"/> No Keypad Blanking While Armed
3	<input type="checkbox"/>	For Future Use	✓	<input type="checkbox"/>
4	<input type="checkbox"/>	Master Code Bypasses Holdup Zones Only	✓	<input type="checkbox"/> Any Code Bypasses Holdup Zones
5	<input type="checkbox"/>	Time Limit Enabled for PGM 05, 06, 17, 18	✓	<input type="checkbox"/> No Time Limit Enabled for PGM 05, 06, 17, 18
6	<input type="checkbox"/>	RF Delinquency Enabled	✓	<input type="checkbox"/> RF Delinquency Disabled
7	<input type="checkbox"/>	Open Zones Cancel Arming	✓	<input type="checkbox"/> Open Zones Cancel Arming Disabled
8	<input type="checkbox"/>	Audible Exit Delay for Stay Arming	✓	<input type="checkbox"/> Stay Arming Silent

**[023] Tenth System Options**

Opt	Def	ON		OFF
1	<input type="checkbox"/>	Fire Key Beeps Only	✓	<input type="checkbox"/> Fire Key Beeps and Sounds Bell
2	<input type="checkbox"/>	200 Baud Open/Close Identifier Toggle ON	✓	<input type="checkbox"/> 200 Baud Open/Close Identifier Toggle OFF
3	<input type="checkbox"/>	Test Transmission While Armed Only	✓	<input type="checkbox"/> Test Transmission While Armed/Disarmed
4	<input type="checkbox"/>	Test Transmission in Hours	✓	<input type="checkbox"/> Test Transmission in Days
5	✓	Switching from AWAY to STAY disabled		<input type="checkbox"/> AWAY to STAY toggle Option Permitted
6	<input type="checkbox"/>	2-way Audio will NOT Disconnect for a New Event	✓	<input type="checkbox"/> 2-way Audio Will Disconnect for a New Event
7	<input type="checkbox"/>	Trouble Beeps are Silent*	✓	<input type="checkbox"/> Trouble Beeps Sound Every 10 Seconds
8	<input type="checkbox"/>	Keyswitch Arm in Away Mode	✓	<input type="checkbox"/> Keyswitch arms in STAY or AWAY

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

Opt	Def	ON		OFF
1	<input type="checkbox"/>	Zone 1 is Fast Loop Response	✓	<input type="checkbox"/> Zone 1 is Normal Loop Response
2	<input type="checkbox"/>	Zone 2 is Fast Loop Response	✓	<input type="checkbox"/> Zone 2 is Normal Loop Response
3	<input type="checkbox"/>	Zone 3 is Fast Loop Response	✓	<input type="checkbox"/> Zone 3 is Normal Loop Response
4	<input type="checkbox"/>	Zone 4 is Fast Loop Response	✓	<input type="checkbox"/> Zone 4 is Normal Loop Response
5	<input type="checkbox"/>	Zone 5 is Fast Loop Response	✓	<input type="checkbox"/> Zone 5 is Normal Loop Response
6	<input type="checkbox"/>	Zone 6 is Fast Loop Response	✓	<input type="checkbox"/> Zone 6 is Normal Loop Response
7	<input type="checkbox"/>	Zone 7 is Fast Loop Response	✓	<input type="checkbox"/> Zone 7 is Normal Loop Response
8	<input type="checkbox"/>	Zone 8 is Fast Loop Response	✓	<input type="checkbox"/> Zone 8 is Normal Loop Response

[101]-[164] Zone Attributes

Zone Attribute Defaults (Y = Option ON; N = Option OFF):

Attribute: ON OFF	1	2	3	4	5	6	7	8	
	Audible Silent	Steady Pulsed	Chime No	Bypass No	Force* No	Swing No	Tx. Delay No	Wireless Zn No	
Zone Type:									
00 Null Zone	N	N	N	N	N	N	N	N	
01 Delay 1	Y	Y	Y	Y	N	Y	N	N	
02 Delay 2	Y	Y	Y	Y	N	Y	N	N	
03 Instant	Y	Y	Y	Y	N	Y	N	N	
04 Interior	Y	Y	N	Y	N	Y	N	N	
05 Int. Stay/Away	Y	Y	N	Y	Y	Y	N	N	
06 Dly. Stay/Away	Y	Y	N	Y	Y	Y	N	N	
07 Dly. 24hr Fire (Hardw.)	Y	N	N	N	N	N	N	N	
08 Stand. 24hr Fire (Hardw.)	Y	N	N	N	N	N	N	N	
09 24hr Superv.	N	Y	N	N	Y	N	N	N	
10 24hr Superv. Buzzer	N	Y	N	Y	N	N	N	N	
11 24hr Burglary	Y	Y	N	Y	N	N	N	N	
12 24hr Holdup	N	Y	N	N	N	N	N	N	
13 24hr Gas	Y	N	N	N	N	N	N	N	
14 24hr Heating	Y	N	N	N	N	N	N	N	
15 24hr Medical	Y	Y	N	N	N	N	N	N	
16 24hr Panic	Y	Y	N	N	N	N	N	N	
17 24hr Emergency	Y	Y	N	N	N	N	N	N	
18 24hr Sprinkler	Y	Y	N	N	N	N	N	N	
19 24hr Water	Y	Y	N	N	N	N	N	N	
20 24hr Freeze	Y	Y	N	N	N	N	N	N	
21 24hr Latching Tamper	Y	Y	N	N	N	N	N	N	
22 Momentary Keyswitch	N	N	N	N	Y	N	N	N	
23 Maintained Keyswitch	N	N	N	N	Y	N	N	N	
25 Interior Delay	Y	Y	N	Y	N	Y	N	N	
26 24hr Non-alarm	N	N	N	N	Y	N	N	N	
29 Auto Verified Fire	Y	N	N	N	N	N	N	N	
30 Fire Supervisory	N	N	N	N	N	N	N	N	
31 Day Zone	Y	Y	N	Y	Y	Y	Y	N	
32 Instant Stay/Away	Y	Y	N	Y	N	N	N	N	
35 24 hr Bell/Buzzer	Y	Y	N	Y	N	Y	N	N	
36 24-hr Non-Latching Tamper Zone	N	Y	N	N	N	Y	N	N	
37 Night Zone	Y	Y	N	Y	Y	Y	N	N	
4124-hr CO	Y	N	N	N	N	N	N	N	
8124-hr CO (Wireless)	Y	N	N	N	N	N	N	Y	
87 Dly. 24hr Fire (Wireless)	Y	N	N	N	N	N	N	Y	
88 Stand. 24hr Fire (Wireless)	Y	N	N	N	N	N	N	Y	
Attribute: ON OFF	9	10	11	12	13	14	15	16	
	Cross Zn No	Zone Attributes 10-13 For Future Use				NC Loops Config.	SEOL Config.	DEOL Config.	
Zone Type:									
00 Null Zone	N	N	N	N	N	N	N	N	
01 Delay 1	N	N	N	N	N	N	N	N	
02 Delay 2	N	N	N	N	N	N	N	N	
03 Instant	N	N	N	N	N	N	N	N	
04 Interior	N	N	N	N	N	N	N	N	
05 Int. Stay/Away	N	N	N	N	N	N	N	N	
06 Dly. Stay/Away	N	N	N	N	N	N	N	N	
07 Dly. 24hr Fire (Hardw.)	N	N	N	N	N	N	N	N	
08 Stand. 24hr Fire (Hardw.)	N	N	N	N	N	N	N	N	
09 24hr Superv.	N	N	N	N	N	N	N	N	
10 24hr Superv. Buzzer	N	N	N	N	N	N	N	N	
11 24hr Burglary	N	N	N	N	N	N	N	N	
12 24hr Holdup	N	N	N	N	N	N	N	N	
13 24hr Gas	N	N	N	N	N	N	N	N	
14 24hr Heating	N	N	N	N	N	N	N	N	
15 24hr Medical	N	N	N	N	N	N	N	N	
16 24hr Panic	N	N	N	N	N	N	N	N	
17 24hr Emergency	N	N	N	N	N	N	N	N	


18 24hr Sprinkler	N	N	N	N	N	N	N	N	N
19 24hr Water	N	N	N	N	N	N	N	N	N
20 24hr Freeze	N	N	N	N	N	N	N	N	N
21 24hr Latching Tamper	N	N	N	N	N	N	N	N	N
22 Momentary Keyswitch	N	N	N	N	N	N	N	N	N
23 Maintained Keyswitch	N	N	N	N	N	N	N	N	N
25 Interior Delay	N	N	N	N	N	N	N	N	N
26 24hr Non-alarm	N	N	N	N	N	N	N	N	N
29 Auto Verified Fire	N	N	N	N	N	N	N	N	N
30 Fire Supervisory	N	N	N	N	N	N	N	N	N
31 Day Zone	N	N	N	N	N	N	N	N	N
32 Instant Stay/Away	N	N	N	N	N	N	N	N	N
35 24 hr Bell/Buzzer	N	N	N	N	N	N	N	N	N
36 24 Hr Non-Latching Tamper	N	N	N	N	N	N	N	N	N
37 Night Zone	N	N	N	N	N	N	N	N	N
4124-hr CO	N	N	N	N	N	N	N	N	N
8124-hr CO (Wireless)	N	N	N	N	N	N	N	N	N
87 Dly. 24hr Fire (Wireless)	N	N	N	N	N	N	N	N	N
88 Stand. 24hr Fire (Wireless)	N	N	N	N	N	N	N	N	N

Section	Zone #	Zone Type**	Audible/ Silent 1	Steady/ Pulsed 2	Chime No 3	Bypass No 4	Force* No 5	Swing No 6	Tx. Delay No 7	Wireless No 8	Cross Zn.No 9
[101]	01	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[102]	02	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[103]	03	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[104]	04	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[105]	05	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[106]	06	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[107]	07	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[108]	08	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[109]	09	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[110]	10	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[111]	11	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[112]	12	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[113]	13	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[114]	14	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[115]	15	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[116]	16	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[117]	17	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[118]	18	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[119]	19	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[120]	20	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[121]	21	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[122]	22	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[123]	23	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[124]	24	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[125]	25	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[126]	26	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[127]	27	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[128]	28	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[129]	29	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[130]	30	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[131]	31	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



[132]	32	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[133]	33	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[134]	34	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Section	Zone #	Zone Type**	Audible/ Silent 1	Steady/ Pulsed 2	Chime No 3	Bypass No 4	Force* No 5	Swing No 6	Tx. Delay No 7	Wireless No 8	Cross Zn. No 9
[135]	35	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[136]	36	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[137]	37	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[138]	38	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[139]	39	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[140]	40	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[141]	41	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[142]	42	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[143]	43	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[144]	44	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[145]	45	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[146]	46	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[147]	47	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[148]	48	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[149]	49	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[150]	50	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[151]	51	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[152]	52	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[153]	53	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[154]	54	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[155]	55	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[156]	56	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[157]	57	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[158]	58	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[159]	59	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[160]	60	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[161]	61	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[162]	62	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[163]	63	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[164]	64	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section	Zone #	Zone Type**	For Future Use 10	For Future Use 11	For Future Use 12	For Future Use 13	NC Loops Config. 14	SEOL Config. 15	DEOL Config. 16
[101]	01	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[102]	02	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[103]	03	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[104]	04	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[105]	05	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[106]	06	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[107]	07	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[108]	08	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 Zone attributes 10-16 only apply to zones 1-8.

**System Timers**

**[165] Maximum Dialing Attempts to Each Telephone Number**

Default 003           Valid entries are 001-005 attempts

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

Default 040           Valid entries are 001-255 seconds

**[167] T-LINK Interface Communications Wait for Acknowledge**

Default 020           Valid entries are 001-255 seconds

**[168] Set Clock Forward (Daylight Saving Time)**

Def 010    Month           Valid Entries 001-012

Def 005    Week           Valid Entries 000-005

Def 000    Day           Valid Entries 000-031

Def 002    Hour           Valid Entries 000-022

Def 001    Increment           Valid Entries 001-002

**[169] Set Clock Back (Standard Time)**

Def 003    Month           Valid Entries 001-012

Def 005    Week           Valid Entries 000-005

Def 000    Day           Valid Entries 000-031

Def 002    Hour           Valid Entries 000-023

Def 001    Decrement           Valid Entries 001-002

**[170] PGM Output Timer**


Default 002           Valid entries are 001-255 seconds

**[171] Tamper PGM Output Timer**

Default 000           Valid entries are 000-255 minutes

**[173] Bell Delay Timer**

Default 000             Valid entries are 000-255 minutes

 *Programming option indicated in GRAY are required for systems compliant with EN50131-1 and TSS0131-3 standards*

**[175] Auto-arm Postpone Timer**

Default 000           Valid entries are 001-255 minutes, 000 disables automatic arming

**[176] Cross Zone/Police Code Timer**

Default 060           Valid entries are 001-255 seconds/minutes

**Automatic Arming Schedule**

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

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
[181]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
[182]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
[183]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
[184]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
[185]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
[186]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
[187]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
[188]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

**[190] No Activity Arming Pre-Alert Time**

Default    Partition

001    All           Valid entries are 001-255 minutes, 000 for no pre-alert

**No Activity Arming Timers - Default is [000] for all partitions**

Section	Partition		
[191]	1	_____	Valid entries are 001-255 minutes, 000 to disable
[192]	2	_____	Valid entries are 001-255 minutes, 000 to disable
[193]	3	_____	Valid entries are 001-255 minutes, 000 to disable
[194]	4	_____	Valid entries are 001-255 minutes, 000 to disable
[195]	5	_____	Valid entries are 001-255 minutes, 000 to disable
[196]	6	_____	Valid entries are 001-255 minutes, 000 to disable
[197]	7	_____	Valid entries are 001-255 minutes, 000 to disable
[198]	8	_____	Valid entries are 001-255 minutes, 000 to disable

**[199] Auto-arming Pre-Alert Timer**

Default: 004 \_\_\_\_\_ Valid entries are 001-255 minutes

**Partition Programming**

**[201] Partition Selection Mask**

Opt	Def	ON	OFF
1	✓	<input type="checkbox"/> Partition 1 is enabled	<input type="checkbox"/> Cannot be disabled
2		<input type="checkbox"/> Partition 2 is enabled	✓ <input type="checkbox"/> Disabled
3		<input type="checkbox"/> Partition 3 is enabled	✓ <input type="checkbox"/> Disabled
4		<input type="checkbox"/> Partition 4 is enabled	✓ <input type="checkbox"/> Disabled
5		<input type="checkbox"/> Partition 5 is enabled	✓ <input type="checkbox"/> Disabled
6		<input type="checkbox"/> Partition 6 is enabled	✓ <input type="checkbox"/> Disabled
7		<input type="checkbox"/> Partition 7 is enabled	✓ <input type="checkbox"/> Disabled
8		<input type="checkbox"/> Partition 8 is enabled	✓ <input type="checkbox"/> Disabled

**1** Default is ON for zones 1-16 on partition 1 for the PC1864/PC1832. Default is ON for Zones 1-6 for the PC1616.

Partition 1 Zone Assignment		Partition 2 Zone Assignment		Partition 3 Zone Assignment		Partition 4 Zone Assignment	
[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 Zone Assignment		Partition 6 Zone Assignment		Partition 7 Zone Assignment		Partition 8 Zone Assignment	
[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	□□□□□□□□

**Communications**

**[301] First Telephone Number (32 Digits)**  
 | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**[302] Second Telephone Number (32 Digits)**  
 | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**[303] Third Telephone Number (32 Digits)**  
 | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**[304] Call Waiting Cancel String (6 Digits) - This feature is activated in Section 382 Opt 4**  
 | | | | | | | Default = DB70EF Program unused digits with Hex F

**i** All six digits must be entered for changes to be saved. Fill unused digit spaces with 'F'.

**Account Codes**

Enter a 6-digit account number for the system account code. SIA will use this account code for all eight partitions. Only SIA supports 6-digit account codes. If the last two digits of the account code are FF, the panel will only use the first four digits.

**Section [310] System Account Code Default [FFFFFF]** | | | | | |

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

**[311] Partition 1 Account Number** | | | |

**[312] Partition 2 Account Number** | | | |

**[313] Partition 3 Account Number** | | | |

**[314] Partition 4 Account Number** | | | |

**[315] Partition 5 Account Number** | | | |

**[316] Partition 6 Account Number** | | | |

**[317] Partition 7 Account Number** | | | |

**[318] Partition 8 Account Number** | | | |

**i** All Account Numbers codes are defaulted to FFFF.

**Reporting Codes**

**[320]-[323] Alarm Reporting Codes, Zones 01-64**

All Reporting Codes defaulted to FF unless otherwise marked.

Section	Zone 01	Zone 02	Zone 03	Zone 04	Zone 05	Zone 06	Zone 07	Zone 08
<b>[320]</b>	3     A	3     A	3     A	3     A	3     A	3     A	3     A	3     A
	Zone 09	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
<b>[321]</b>	3     A	3     A	3     A	3     A	3     A	3     A	3     A	3     A
	Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
<b>[322]</b>	3     A	3     A	3     A	3     A	3     A	3     A	3     A	3     A
	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
<b>[323]</b>	3     A	3     A	3     A	3     A	3     A	3     A	3     A	3     A
	Zone 33	Zone 34	Zone 35	Zone 36	Zone 37	Zone 38	Zone 39	Zone 40
<b>[323]</b>	3     A	3     A	3     A	3     A	3     A	3     A	3     A	3     A
	Zone 41	Zone 42	Zone 43	Zone 44	Zone 45	Zone 46	Zone 47	Zone 48
<b>[323]</b>	3     A	3     A	3     A	3     A	3     A	3     A	3     A	3     A
	Zone 49	Zone 50	Zone 51	Zone 52	Zone 53	Zone 54	Zone 55	Zone 56
<b>[323]</b>	3     A	3     A	3     A	3     A	3     A	3     A	3     A	3     A
	Zone 57	Zone 58	Zone 59	Zone 60	Zone 61	Zone 62	Zone 63	Zone 64

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

<b>[324]</b>	Zone 01 └ 3   A	Zone 02 └ 3   A	Zone 03 └ 3   A	Zone 04 └ 3   A	Zone 05 └ 3   A	Zone 06 └ 3   A	Zone 07 └ 3   A	Zone 08 └ 3   A
	Zone 09 └ 3   A	Zone 10 └ 3   A	Zone 11 └ 3   A	Zone 12 └ 3   A	Zone 13 └ 3   A	Zone 14 └ 3   A	Zone 15 └ 3   A	Zone 16 └ 3   A
<b>[325]</b>	Zone 17 └ 3   A	Zone 18 └ 3   A	Zone 19 └ 3   A	Zone 20 └ 3   A	Zone 21 └ 3   A	Zone 22 └ 3   A	Zone 23 └ 3   A	Zone 24 └ 3   A
	Zone 25 └ 3   A	Zone 26 └ 3   A	Zone 27 └ 3   A	Zone 28 └ 3   A	Zone 29 └ 3   A	Zone 30 └ 3   A	Zone 31 └ 3   A	Zone 32 └ 3   A
<b>[326]</b>	Zone 33 └ 3   A	Zone 34 └ 3   A	Zone 35 └ 3   A	Zone 36 └ 3   A	Zone 37 └ 3   A	Zone 38 └ 3   A	Zone 39 └ 3   A	Zone 40 └ 3   A
	Zone 41 └ 3   A	Zone 42 └ 3   A	Zone 43 └ 3   A	Zone 44 └ 3   A	Zone 45 └ 3   A	Zone 46 └ 3   A	Zone 47 └ 3   A	Zone 48 └ 3   A
<b>[327]</b>	Zone 49 └ 3   A	Zone 50 └ 3   A	Zone 51 └ 3   A	Zone 52 └ 3   A	Zone 53 └ 3   A	Zone 54 └ 3   A	Zone 55 └ 3   A	Zone 56 └ 3   A
	Zone 57 └ 3   A	Zone 58 └ 3   A	Zone 59 └ 3   A	Zone 60 └ 3   A	Zone 61 └ 3   A	Zone 62 └ 3   A	Zone 63 └ 3   A	Zone 64 └ 3   A

**[328] Miscellaneous Alarm Reporting Codes**

└ 2   1	Duress Alarm
└ 5   8	Opening After Alarm
└ 5   9	Recent Closing
└ 4   3	Zone Expander Supervisory Alarm
└ 4   3	Zone Expander Supervisory Restore
└ 4   A	Cross Zone Police Code Alarm
└ 7   8	Burglary Not Verified
└ A   6	Alarm Cancelled

**[329] Priority Alarm and Restoral**

└ 1   A	Keypad Fire Alarm
└ A   A	Keypad Auxiliary Alarm
└ 2   A	Keypad Panic Alarm
└ 4   A	Auxiliary Input Alarm
└ 1   A	Keypad Fire Restoral
└ A   A	Keypad Auxiliary Restoral
└ 2   A	Keypad Panic Restoral
└ 4   A	Auxiliary Input Restore

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

<b>[330]</b>	Zone 01 └ 4   4	Zone 02 └ 4   4	Zone 03 └ 4   4	Zone 04 └ 4   4	Zone 05 └ 4   4	Zone 06 └ 4   4	Zone 07 └ 4   4	Zone 08 └ 4   4
	Zone 09 └ 4   4	Zone 10 └ 4   4	Zone 11 └ 4   4	Zone 12 └ 4   4	Zone 13 └ 4   4	Zone 14 └ 4   4	Zone 15 └ 4   4	Zone 16 └ 4   4
<b>[331]</b>	Zone 17 └ 4   4	Zone 18 └ 4   4	Zone 19 └ 4   4	Zone 20 └ 4   4	Zone 21 └ 4   4	Zone 22 └ 4   4	Zone 23 └ 4   4	Zone 24 └ 4   4
	Zone 25 └ 4   4	Zone 26 └ 4   4	Zone 27 └ 4   4	Zone 28 └ 4   4	Zone 29 └ 4   4	Zone 30 └ 4   4	Zone 31 └ 4   4	Zone 32 └ 4   4
<b>[332]</b>	Zone 33 └ 4   4	Zone 34 └ 4   4	Zone 35 └ 4   4	Zone 36 └ 4   4	Zone 37 └ 4   4	Zone 38 └ 4   4	Zone 39 └ 4   4	Zone 40 └ 4   4
	Zone 41 └ 4   4	Zone 42 └ 4   4	Zone 43 └ 4   4	Zone 44 └ 4   4	Zone 45 └ 4   4	Zone 46 └ 4   4	Zone 47 └ 4   4	Zone 48 └ 4   4
<b>[333]</b>	Zone 49 └ 4   4	Zone 50 └ 4   4	Zone 51 └ 4   4	Zone 52 └ 4   4	Zone 53 └ 4   4	Zone 54 └ 4   4	Zone 55 └ 4   4	Zone 56 └ 4   4
	Zone 57 └ 4   4	Zone 58 └ 4   4	Zone 59 └ 4   4	Zone 60 └ 4   4	Zone 61 └ 4   4	Zone 62 └ 4   4	Zone 63 └ 4   4	Zone 64 └ 4   4

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

**Section**

<b>[334]</b>	Zone 01 └─┴─┴─┘	Zone 02 └─┴─┴─┘	Zone 03 └─┴─┴─┘	Zone 04 └─┴─┴─┘	Zone 05 └─┴─┴─┘	Zone 06 └─┴─┴─┘	Zone 07 └─┴─┴─┘	Zone 08 └─┴─┴─┘
	Zone 09 └─┴─┴─┘	Zone 10 └─┴─┴─┘	Zone 11 └─┴─┴─┘	Zone 12 └─┴─┴─┘	Zone 13 └─┴─┴─┘	Zone 14 └─┴─┴─┘	Zone 15 └─┴─┴─┘	Zone 16 └─┴─┴─┘
<b>[335]</b>	Zone 17 └─┴─┴─┘	Zone 18 └─┴─┴─┘	Zone 19 └─┴─┴─┘	Zone 20 └─┴─┴─┘	Zone 21 └─┴─┴─┘	Zone 22 └─┴─┴─┘	Zone 23 └─┴─┴─┘	Zone 24 └─┴─┴─┘
	Zone 25 └─┴─┴─┘	Zone 26 └─┴─┴─┘	Zone 27 └─┴─┴─┘	Zone 28 └─┴─┴─┘	Zone 29 └─┴─┴─┘	Zone 30 └─┴─┴─┘	Zone 31 └─┴─┴─┘	Zone 32 └─┴─┴─┘
<b>[336]</b>	Zone 33 └─┴─┴─┘	Zone 34 └─┴─┴─┘	Zone 35 └─┴─┴─┘	Zone 36 └─┴─┴─┘	Zone 37 └─┴─┴─┘	Zone 38 └─┴─┴─┘	Zone 39 └─┴─┴─┘	Zone 40 └─┴─┴─┘
	Zone 41 └─┴─┴─┘	Zone 42 └─┴─┴─┘	Zone 43 └─┴─┴─┘	Zone 44 └─┴─┴─┘	Zone 45 └─┴─┴─┘	Zone 46 └─┴─┴─┘	Zone 47 └─┴─┴─┘	Zone 48 └─┴─┴─┘
<b>[337]</b>	Zone 49 └─┴─┴─┘	Zone 50 └─┴─┴─┘	Zone 51 └─┴─┴─┘	Zone 52 └─┴─┴─┘	Zone 53 └─┴─┴─┘	Zone 54 └─┴─┴─┘	Zone 55 └─┴─┴─┘	Zone 56 └─┴─┴─┘
	Zone 57 └─┴─┴─┘	Zone 58 └─┴─┴─┘	Zone 59 └─┴─┴─┘	Zone 60 └─┴─┴─┘	Zone 61 └─┴─┴─┘	Zone 62 └─┴─┴─┘	Zone 63 └─┴─┴─┘	Zone 64 └─┴─┴─┘

**[338] Miscellaneous Tamper Reporting Codes**

- └─┴─┴─┘ General System Tamper
- └─┴─┴─┘ General System Tamper Rest.
- └─┴─┴─┘ Keypad Lockout

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

**Section**

<b>[339]</b>	Code 1 └─┴─┴─┘	Code 2 └─┴─┴─┘	Code 3 └─┴─┴─┘	Code 4 └─┴─┴─┘	Code 5 └─┴─┴─┘	Code 6 └─┴─┴─┘	Code 7 └─┴─┴─┘	Code 8 └─┴─┴─┘
	Code 9 └─┴─┴─┘	Code 10 └─┴─┴─┘	Code 11 └─┴─┴─┘	Code 12 └─┴─┴─┘	Code 13 └─┴─┴─┘	Code 14 └─┴─┴─┘	Code 15 └─┴─┴─┘	Code 16 └─┴─┴─┘
<b>[340]</b>	Code 17 └─┴─┴─┘	Code 18 └─┴─┴─┘	Code 19 └─┴─┴─┘	Code 20 └─┴─┴─┘	Code 21 └─┴─┴─┘	Code 22 └─┴─┴─┘	Code 23 └─┴─┴─┘	Code 24 └─┴─┴─┘
	Code 25 └─┴─┴─┘	Code 26 └─┴─┴─┘	Code 27 └─┴─┴─┘	Code 28 └─┴─┴─┘	Code 29 └─┴─┴─┘	Code 30 └─┴─┴─┘	Code 31 └─┴─┴─┘	Code 32 └─┴─┴─┘

**[341] Miscellaneous Closing (Arming) Reporting Codes**

- └─┴─┴─┘ For Future Use
- └─┴─┴─┘ For Future Use
- └─┴─┴─┘ For Future Use
- └─┴─┴─┘ For Future Use
- └─┴─┴─┘ Automatic Zone Bypass
- └─┴─┴─┘ Partial Closing
- └─┴─┴─┘ Special Closing
- └─┴─┴─┘ Late to Close
- └─┴─┴─┘ Exit Fault

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

**Section**

<b>[342]</b>	Code 1 └─┴─┴─┘	Code 2 └─┴─┴─┘	Code 3 └─┴─┴─┘	Code 4 └─┴─┴─┘	Code 5 └─┴─┴─┘	Code 6 └─┴─┴─┘	Code 7 └─┴─┴─┘	Code 8 └─┴─┴─┘
	Code 9 └─┴─┴─┘	Code 10 └─┴─┴─┘	Code 11 └─┴─┴─┘	Code 12 └─┴─┴─┘	Code 13 └─┴─┴─┘	Code 14 └─┴─┴─┘	Code 15 └─┴─┴─┘	Code 16 └─┴─┴─┘
<b>[343]</b>	Code 17 └─┴─┴─┘	Code 18 └─┴─┴─┘	Code 19 └─┴─┴─┘	Code 20 └─┴─┴─┘	Code 21 └─┴─┴─┘	Code 22 └─┴─┴─┘	Code 23 └─┴─┴─┘	Code 24 └─┴─┴─┘
	Code 25 └─┴─┴─┘	Code 26 └─┴─┴─┘	Code 27 └─┴─┴─┘	Code 28 └─┴─┴─┘	Code 29 └─┴─┴─┘	Code 30 └─┴─┴─┘	Code 31 └─┴─┴─┘	Code 32 └─┴─┴─┘

**[344] Miscellaneous Opening (Disarming) Reporting Codes**

┌┐┐┐	For Future Use
┌┐┐┐	For Future Use
┌┐┐┐	For Future Use
┌┐┐┐	For Future Use
┌┐┐┐	For Future Use
┌5┐┐5┐	Auto Arm Cancellation/Postpone
┌A┐┐A┐	Special Opening

**[345] Maintenance Alarm Reporting Codes**

┌A┐┐2┐	Battery Trouble Alarm
┌A┐┐1┐	AC Failure Trouble Alarm
┌2┐┐1┐	Bell Circuit Trouble Alarm
┌7┐┐3┐	Fire Trouble Alarm
┌1┐┐2┐	Auxiliary Power Supply Trouble Alarm
┌┐┐┐	TLM Trouble Code
┌A┐┐A┐	General System Trouble
┌3┐┐A┐	General System Supervisory
┌┐┐┐	For Future Use

**[347] Miscellaneous Maintenance Reporting Codes**

┌5┐┐4┐	Telephone Number 1 FTC Restore
┌5┐┐4┐	Telephone Number 2 FTC Restore
┌2┐┐2┐	Event Buffer 75% Full Since Last Upload
┌0┐┐0┐	DLS Lead IN
┌0┐┐0┐	DLS Lead OUT
┌8┐┐0┐	Zone Fault Alarm
┌8┐┐0┐	Zone Fault Restore
┌5┐┐4┐	Delinquency Code
┌8┐┐4┐	General Zone Low Battery Alarm
┌8┐┐4┐	General Zone Low Battery Restoral
┌0┐┐0┐	Installer Lead Out
┌0┐┐0┐	Installer Lead In

**[350] Communicator Format Options****Default****04**      ┌┐┐┐ **1st Telephone Number****04**      ┌┐┐┐ **2nd Telephone Number****01** 20 BPS, 1400 HZ handshake**02** 20 BPS, 2300 HZ handshake**03** DTMF CONTACT ID**04** SIA FSK**05** Pager**06** Residential Dial\*\***07** 10 BPS, 1400Hz handshake

\*\*Failure to communicate using Residential Dial will not generate a Failed To Communicate Trouble.

**08** 10 BPS, 2300Hz handshake**09** Private Line**10** Scantronics**11** For Future Use**11** For Future Use**12** For Future Use**13** CESA 200**[346] Maintenance Restoral Reporting Codes**

┌A┐┐2┐	Battery Trouble Restoral
┌A┐┐1┐	AC Failure Trouble Restoral
┌2┐┐1┐	Bell Circuit Trouble Restoral
┌7┐┐3┐	Fire Trouble Restoral
┌1┐┐2┐	Auxiliary Power Supply Trouble Restoral
┌5┐┐1┐	TLM Restoral
┌A┐┐A┐	General System Trouble Restoral
┌3┐┐3┐	General System Supervisory Restoral
┌┐┐┐	Cold Start (System Reset)

**[348] Test Transmission Reporting Codes**

┌A┐┐7┐	Walk Test End
┌A┐┐7┐	Walk Begin
┌A┐┐8┐	Periodic Test Transmission with Trouble
┌A┐┐2┐	Periodic Test Transmission
┌A┐┐1┐	System Test
┌┐┐┐	For Future Use

**Call Direction Options**

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

Section	Partition	Option 1 1st Telephone Number (Def ON)	Option 2 2nd Telephone Number (Def OFF)	Option 3 Not Used (Def OFF)	Option 4 Not Used (Def OFF)	Option 5 Alt Comm (Def ON)	Options 6,7,8 Future Use
[351]	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[352]	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[353]	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[354]	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[355]	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[356]	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[357]	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[358]	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Section	Partition	Option 1 1st Telephone Number (Def ON)	Option 2 2nd Telephone Number (Def OFF)	Option 3 Not Used (Def OFF)	Option 4 Not Used (Def OFF)	Option 5 Alt Comm (Def ON)	Options 6,7,8 Future Use
[359]	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[360]	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[361]	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[362]	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[363]	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[364]	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[365]	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[366]	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Section	Partition	Option 1 1st Telephone Number (Def OFF)	Option 2 2nd Telephone Number (Def OFF)	Option 3 Not Used (Def OFF)	Option 4 Not Used (Def OFF)	Option 5 Alt Comm (Def OFF)	Options 6,7,8 Future Use
[367]	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[368]	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[369]	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[370]	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[371]	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[372]	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[373]	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[374]	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**[375] System Maintenance Communicator Call Directions**

Section	Option 1 1st Telephone Number (Def ON)	Option 2 2nd Telephone Number (Def OFF)	Option 3 Not Used (Def OFF)	Option 4 Not Used (Def OFF)	Option 5 Alt Comm (Def ON)	Options 6,7,8 Future Use
[375]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**[376] System Test Transmissions Communicator Call Directions**

Section	Option 1 1st Telephone Number (Def ON)	Option 2 2nd Telephone Number (Def OFF)	Option 3 Not Used (Def OFF)	Option 4 Not Used (Def OFF)	Option 5 Alt Comm (Def ON)	Options 6,7,8 Future Use
[376]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**[377] Communication Variables****Default**

003	_____	Swinger Shutdown (Alarms and Rest)	001-014 Transmissions, 000=disabled
003	_____	Swinger Shutdown (Tampers and Rest)	001-014 Transmissions, 000=disabled
003	_____	Swinger Shutdown (Maint and Rest)	001-014 Transmissions, 000=disabled
000	<u>0</u> <u>6</u> <u>0</u>	Communication Delay	001-255 seconds, 000=disabled
030	_____	AC Failure Communication Delay	001-255 minutes, 000=disabled
010	_____	TLM Trouble Delay	No. of checks required - valid entries 003 - 255)
007	_____	Test Transmission Cycle (land line)	001-255 days/minutes†
030	_____	For Future Use	
007	_____	Zone Low Battery Transmission Delay	000-255 days
030	_____	Delinquency Transmission Cycle	000-255 days/hours
000	_____	Communications Cancelled Window	000-255 minutes

†Dependent on programming in section [702], option [3].

**i** Programming options indicated in GRAY are required for systems compliant with EN50131-1 and TS50131-3 standards.

**[378] Test Transmission Time of Day****Default**

0300 \_\_\_\_\_ Valid entries are 0000-2359 (9999 to disable)

**Section [379] Periodic DLS Time of Day****Default**

9999 \_\_\_\_\_ Valid entries are 0000-2359 (9999 to disable)

**[380] First Communicator Options****Opt Def ON**

- 1 ✓  Communications Enabled
- 2 ✓  Restorals on Bell Time-out
- 3  Pulse Dialing
- 4  Switch to Pulse Dialing on 5th Attempt
- 5 ✓  3rd Telephone Number Enabled
- 6 ✓  Alternate Dial (1st & 3rd)
- 7  For Future Use
- 8  Delinquency Follows Zone Activity (Hours)

**OFF**

- Communications Disabled
- Restorals Follow Zones
- ✓  DTMF Dialing
- ✓  DTMF Dial For All Attempts
- 3rd Telephone Number Disabled
- Call 1st Number, Back up to 3rd
- ✓
- ✓  Delinquency Follows Arming (Days)

**[381] Second Communicator Options****Opt Def ON**

- 1  Open After Alarm Keypad Ringback Enabled
- 2  Open After Alarm Bell Ringback Enabled
- 3  SIA Sends Programmed Reporting Codes
- 4  Closing Confirmation Enabled
- 5 ✓  Talk/Listen on Phone Lines 1/3
- 6 ✓  Talk/Listen on Phone Line 2
- 7  Contact ID Uses Programmed Reporting Codes
- 8  For Future Use

**OFF**

- ✓  Open After Alarm Keypad Ringback Disabled
- ✓  Open After Alarm Bell Ringback Disabled
- ✓  SIA Sends Automatic Reporting Codes
- ✓  Closing Confirmation Disabled
- No Talk/Listen on Phone Lines 1/3
- No Talk/Listen on Phone Line 2
- ✓  Contact ID Uses Automatic Reporting Codes
- ✓

**[382] Third Communicator Options**

Opt	Def	ON	OFF
1		<input type="checkbox"/> Contact ID Partial Closing Identifier is "5"	✓ <input type="checkbox"/> Contact ID Partial Closing Identifier is "4"
2		<input type="checkbox"/> Alarm Communications Enabled During Walk Test	✓ <input type="checkbox"/> Alarm Communications Disabled During Walk Test
3	✓	<input type="checkbox"/> Communication Cancelled Message Enabled	<input type="checkbox"/> Communication Cancelled Message Disabled
4		<input type="checkbox"/> Call Waiting Cancel Enabled	✓ <input type="checkbox"/> Call Waiting Cancel Disabled
5		<input type="checkbox"/> T-Link Interface Enabled	✓ <input type="checkbox"/> T-Link Interface Disabled
6		<input type="checkbox"/> AC Failure Transmission Delay is in Hours	✓ <input type="checkbox"/> AC Failure Transmission Delay is in Minutes
7		<input type="checkbox"/> Number of Dialing Attempt for Residential Dial is 1	✓ <input type="checkbox"/> Residential Dial Follows Dialing Attempts Counter
8		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>

**[383] Fourth Communicator Options**

Opt	Def	ON	OFF
1		<input type="checkbox"/> Account Code Follows Phone Number	✓ <input type="checkbox"/> Account Code Follows Partition
2-8		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>

**[389] T-Link Fault Check Timer**

Default: 003  Valid entries are 001-255 seconds

**DLS Downloading**

**[401] Downloading Option Codes**

Opt	Def	ON	OFF
1		<input type="checkbox"/> Answering Machine/Double Call enabled	✓ <input type="checkbox"/> Answering Machine/Double Call disable
2	✓	<input type="checkbox"/> User Can Enable DLS Window	<input type="checkbox"/> User Cannot Enable DLS Window
3		<input type="checkbox"/> Call Back Enabled	✓ <input type="checkbox"/> Call Back Disabled
4		<input type="checkbox"/> User Initiated Call Up Enabled	✓ <input type="checkbox"/> User Initiated Call Up Disabled
5		<input type="checkbox"/> Auto Event Buffer Upload Enabled	✓ <input type="checkbox"/> Auto Event Buffer Upload Disabled
6		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>
7		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>
8		<input type="checkbox"/> For Future Use	✓ <input type="checkbox"/>

**[402] DLS Downloading Telephone Number (32 Digits)**

**D**

**[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	<input type="text"/>	<input type="text"/>
PC1832	183200	<input type="text"/>	<input type="text"/>
PC1864	186400	<input type="text"/>	<input type="text"/>

**[405] Answering Machine Double Call Timer**

Default 060  (001-255 seconds)

**[406] Number of Rings to Answer On**

Default 000  (000-255 rings)

**[499] Initiate PC-Link Downloading**

Enter [499][Installer Code][499]

**[501]-[514]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
<b>ON</b>	Not used	Not used	True Output	Follows Timer	Code Req.	Not used	Not used	Not used
<b>OFF</b>	—	—	Inverted	On / Off	No Code Req.	—	—	—
<b>PGM Option</b>								
[01] Residential Burglary / Fire Bell Output [02] For Future Use			Y					
[03] Sensor Reset <b>[*][7][2]</b> [04] 2-Wire Smoke Support (PGM2 only) [05] System Armed Status			Y					
[06] Ready To Arm [07] Keypad Buzzer Follower Mode [08] Courtesy Pulse			Y					
[11] System Tamper (all sources, zones, keypad, modules) [12] TLM and Alarm [13] Kiss-off Output			Y	Y				
[14] Ground Start Pulse [15] Remote Operation (DLS Support) [16] For Future Use			Y	Y				
[17] Away Armed Status [18] Stay Armed Status [19] Command Output #1, <b>[*][7][1]</b>			Y	Y	Y			
[20] Command Output #2, <b>[*][7][2]</b> [21] Command Output #3, <b>[*][7][3]</b> [22] Command Output #4, <b>[*][7][4]</b>			Y	Y	N			
[23] 24 Hr Silent Input (PGM2 only) [24] 24 Hr Audible Input (PGM2 only) [25] Delayed Burglary & Fire Output			Y					
[26] Battery Test Output [28] Holdup Output [30] Partition Status Alarm Memory Output			Y					
[33] Bell Status and Programming Access Output [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

\*If attribute [8] is turned ON, attributes [1-7] must also be turned ON.

Attribute: PGM Option		1	2	3	4	5	6	7	8
	ON	Future Use	Future Use	Future Use	Future Use	Future Use	Future Use	Future Use	Follows Timer
	OFF								Latched
[32] Open After Alarm		Y	N	Y	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
<b>Main Board</b>										
[501]	1	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[502]	2	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Main Board / PC5208</b>										
[503]**	3	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[504]**	4	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


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

\*\* These two 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 the same as the first PC5208 output, and PGM4 will work the same as the second PC5208 output.

Section	PGM #	Output Type*	1	2	3	4	5	6	7	8
<b>PC5208</b>										
[505]	5	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[506]	6	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[507]	7	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[508]	8	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[509]	9	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[510]	10	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>PC5204</b>										
[511]	11	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[512]	12	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[513]	13	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[514]	14	( )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

**PGM Output Partition Assignment**

 PGM types [25], [35] - [41] are not partition specific and behave as in the table below.

Section	PGM #	Partition:	1	2	3	4	5	6	7	8
<b>Main Board</b>										
[551]	1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[552]	2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Main Board / PC5208</b>										
[553]	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[554]	4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>PC5208</b>										
[555]	5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[556]	6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[557]	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[558]	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[559]	9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[560]	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**PC5204**

[561]	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[562]	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[563]	13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[564]	14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Zone Follower PGM Zone Assignment**

If a Zone Follower PGM type 29, 35-41 is used, the PGM Output Partition Assignment will be treated as a PGM Output Zone Assignment. Each Zone Follower PGM applies to a different bank of zones as in the below table. Record the assignments above.

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

**Extended Reporting Codes**

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

**Section**

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

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

**Section**

<b>[605]</b>	Code 33	Code 34	Code 35	Code 36	Code 37	Code 38	Code 39	Code 40
	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>
	Code 41	Code 42	Code 43	Code 44	Code 45	Code 46	Code 47	Code 48
	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>
<b>[606]</b>	Code 49	Code 50	Code 51	Code 52	Code 53	Code 54	Code 55	Code 56
	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>
	Code 57	Code 58	Code 59	Code 60	Code 61	Code 62	Code 63	Code 64
	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>
<b>[607]</b>	Code 65	Code 66	Code 67	Code 68	Code 69	Code 70	Code 71	Code 72
	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>
	Code 73	Code 74	Code 75	Code 76	Code 77	Code 78	Code 79	Code 80
	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>
<b>[608]</b>	Code 81	Code 82	Code 83	Code 84	Code 85	Code 86	Code 87	Code 88
	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>
	Code 89	Code 90	Code 91	Code 92	Code 93	Code 94	Code 95	
	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	<input type="text" value="A11"/>	

**Automatic Disarming Schedule**

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

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>[681]</b>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<b>[682]</b>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<b>[683]</b>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<b>[684]</b>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<b>[685]</b>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<b>[686]</b>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<b>[687]</b>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<b>[688]</b>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

**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 (Section [181] for Partition 1 through section [188] for Partition 8). Program [99][99][99] to disable Auto-Disarm schedule. All entries are disabled by default.

<b>[691]</b>	<b>Holiday 1</b>	<b>Holiday 2</b>	<b>Holiday 3</b>	<b>Holiday 4</b>	<b>Holiday 5</b>	<b>Holiday 6</b>	<b>Holiday 7</b>
	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
	<b>Holiday 8</b>	<b>Holiday 9</b>	<b>Holiday 10</b>	<b>Holiday 11</b>	<b>Holiday 12</b>	<b>Holiday 13</b>	<b>Holiday 14</b>
	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<b>[692]</b>	<b>Holiday 1</b>	<b>Holiday 2</b>	<b>Holiday 3</b>	<b>Holiday 4</b>	<b>Holiday 5</b>	<b>Holiday 6</b>	<b>Holiday 7</b>
	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
	<b>Holiday 8</b>	<b>Holiday 9</b>	<b>Holiday 10</b>	<b>Holiday 11</b>	<b>Holiday 12</b>	<b>Holiday 13</b>	<b>Holiday 14</b>
	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<b>[693]</b>	<b>Holiday 1</b>	<b>Holiday 2</b>	<b>Holiday 3</b>	<b>Holiday 4</b>	<b>Holiday 5</b>	<b>Holiday 6</b>	<b>Holiday 7</b>
	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
	<b>Holiday 8</b>	<b>Holiday 9</b>	<b>Holiday 10</b>	<b>Holiday 11</b>	<b>Holiday 12</b>	<b>Holiday 13</b>	<b>Holiday 14</b>
	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

<b>[694]</b>	<b>Holiday 1</b>	<b>Holiday 2</b>	<b>Holiday 3</b>	<b>Holiday 4</b>	<b>Holiday 5</b>	<b>Holiday 6</b>	<b>Holiday 7</b>
	<b>Holiday 8</b>	<b>Holiday 9</b>	<b>Holiday 10</b>	<b>Holiday 11</b>	<b>Holiday 12</b>	<b>Holiday 13</b>	<b>Holiday 14</b>
<b>[695]</b>	<b>Holiday 1</b>	<b>Holiday 2</b>	<b>Holiday 3</b>	<b>Holiday 4</b>	<b>Holiday 5</b>	<b>Holiday 6</b>	<b>Holiday 7</b>
	<b>Holiday 8</b>	<b>Holiday 9</b>	<b>Holiday 10</b>	<b>Holiday 11</b>	<b>Holiday 12</b>	<b>Holiday 13</b>	<b>Holiday 14</b>
<b>[696]</b>	<b>Holiday 1</b>	<b>Holiday 2</b>	<b>Holiday 3</b>	<b>Holiday 4</b>	<b>Holiday 5</b>	<b>Holiday 6</b>	<b>Holiday 7</b>
	<b>Holiday 8</b>	<b>Holiday 9</b>	<b>Holiday 10</b>	<b>Holiday 11</b>	<b>Holiday 12</b>	<b>Holiday 13</b>	<b>Holiday 14</b>
<b>[697]</b>	<b>Holiday 1</b>	<b>Holiday 2</b>	<b>Holiday 3</b>	<b>Holiday 4</b>	<b>Holiday 5</b>	<b>Holiday 6</b>	<b>Holiday 7</b>
	<b>Holiday 8</b>	<b>Holiday 9</b>	<b>Holiday 10</b>	<b>Holiday 11</b>	<b>Holiday 12</b>	<b>Holiday 13</b>	<b>Holiday 14</b>
<b>[698]</b>	<b>Holiday 1</b>	<b>Holiday 2</b>	<b>Holiday 3</b>	<b>Holiday 4</b>	<b>Holiday 5</b>	<b>Holiday 6</b>	<b>Holiday 7</b>
	<b>Holiday 8</b>	<b>Holiday 9</b>	<b>Holiday 10</b>	<b>Holiday 11</b>	<b>Holiday 12</b>	<b>Holiday 13</b>	<b>Holiday 14</b>

**INTERNATIONAL PROGRAMMING**

**[700] Automatic Clock Adjust**

Default = 60  Valid Entries 00-99 Seconds

**[701] First International Options**

Opt	Def	ON	OFF
1	✓	<input type="checkbox"/> 50 Hz AC	<input type="checkbox"/> 60 Hz AC
2		<input type="checkbox"/> Time Base - Internal Crystal	✓ <input type="checkbox"/> Time Base - AC Line
3		<input type="checkbox"/> AC/DC Arming Inhibit Enabled	✓ <input type="checkbox"/> AC/DC Arming Inhibit Disabled
4		<input type="checkbox"/> All System Tamper Require Installer Reset	✓ <input type="checkbox"/> All System Tamper Follow Restore
5		<input type="checkbox"/> 6-digit User Access Codes	✓ <input type="checkbox"/> 4-digit User Access Codes
6		<input type="checkbox"/> Busy Tone Detection Enabled	✓ <input type="checkbox"/> Busy Tone Detection Disabled
7		<input type="checkbox"/> High Current Battery Charge	✓ <input type="checkbox"/> Standard Current Battery Discharge
8		<input type="checkbox"/> DLS/Audio has no priority	✓ <input type="checkbox"/> DLS/Audio has priority

**[702] Second International Options**

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

**[703] Delay Between Dialing Attempts**

Default = 003 |\_\_\_\_\_| Valid Entries 000-255 Seconds

**Module Programming**

**[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.

**[803] Alternate Communicator Programming**

Refer to the Skyroute or PC5400 Sur-Gard DVACS *Installation Manual* for installation and programming instructions.

**[804] RF5132 Wireless Expansion Programming**

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

**[805] PC5100 Programming**

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

**[851] T-Link Programming**

Refer to the T-Link *Installation Manual* for programming locations and instructions.

**Special Installer Functions**

**[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**

**[989] Default Master Code**

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

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

**[993][Installer Code][993] Restore Alternate Communicator to Default Programming**

**[995][Installer Code][995] Restore Escort5580 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 A: Reporting Codes

The following tables contain Contact ID and Automatic SIA format reporting codes. For more information on reporting code formats and notes about individual reporting codes.

### Contact ID

The first digit (in parentheses) will automatically be sent by the control. The second two digits are programmed to indicate specific information about the signal. For example, if zone 1 is an entry/exit point, you could program the event code as [34]. The central station would receive the following:

\*BURG - ENTRY/EXIT - 1 where the "1" indicates which zone went into alarm.

### SIA Format - Level 2 (Hardcoded)

The SIA communication format used in this product follows the level 2 specifications of the SIA Digital Communication Standard - October 1997. This format will send the Account Code along with its data transmission. The transmission will look similar to the following at the receiver:

**NOTE:** A system event will use the Area Identifier Ri00.

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

**Table 1: Reporting Codes**

Section #	Reporting Code	Code Sent When...	Dialer Direction*	Automatic Contact ID Codes	SIA Auto Rep Codes**
[320]-[323]	Zone Alarms	Zone goes into alarm	A/R	See Table 3	See Table 3
[324]-[327]	Zone Restorals	Alarm condition has been restored	A/R	See Table 3	See Table 3
[328]	Duress Alarm	Duress code entered at keypad	A/R	(1) 21	HA-00
[328]	Opening After Alarm	System disarmed with alarm in memory	A/R	(4) 58	OR-UU
[328]	Recent Closing	Alarm occurs within two minutes of system arming	A/R	(4) 59	CR-00
[328]	Zone Expander Supervisory Alarm/Rest.	Panel loses/restores supervisory transmission over the Keybus from zone expansion modules, or keypads with zone inputs	A/R	(1) 43	UA-00/UH-00
[328]	Cross Zone (Police Code) Alarm	Two zones on the same partition go into alarm during any given armed-to-armed period (incl. 24Hr zones)	A/R	(1) 39	BM-00/BV-00
[328]	Burglary Not Verified	With cross zoning enabled, a second zone alarm does not occur before cross zone timer expires	A/R	(3) 78	BG-00
[328]	Alarm Cancelled	A valid access code is entered during communications cancelled window	A/R	(4) A6	BC-00
[329]	[F] Key Alarm/Rest.	Keypad fire alarm (alarm and restore rep. codes sent together)	A/R	(1) 1A	FA-00/FH-00
[329]	[A] Key Alarm/Rest.	Keypad auxiliary alarm (alarm and restore rep. codes sent together)	A/R	(1) AA	MA-00/MH-00
[329]	[P] Key Alarm/Rest.	Keypad panic alarm (alarm and restore rep. codes sent together)	A/R	(1) 2A	PA-00/PH-00
[329]	Aux Input Alarm/Rest	<b>Option#23/24:</b> a panic button wired to PGM 2 is pressed/access code is entered <b>Option #04:</b> a 2-wire smoke detector wired to PGM 2 goes into alarm/ alarm is cleared.	A/R	(1) 4A	UA-99/UH-99
			A/R	(1) 11	FA-99/FH-99
[330]-[337]	Zone Tamper/Restoral	Zone is tampered / tamper condition restored	T/R	(3) 83	TA-ZZ/TR-ZZ
[338]	General System Tamper/ Rest.	Enrolled module with tamper inputs has a tamper alarm/all module tampers restored	T/R	(1) 45	ES-00/EJ-00
[338]	Keypad Lockout	Maximum number of incorrect access codes has been entered at a keypad	T/R	(4) 61	JA-00
[339-341]	Closings	System armed (user 01-32 indicated)	O/C	(4) A1	CL-UU
[341]	Partial Closing	One or more zones bypassed when system armed	O/C	(4) 56	CG-00
[341]	Special Closing	Closing (arming) using one of the following methods: quick arm, auto arm, keyswitch, function key, maintenance code, DLS software, wireless key	O/C	(4) AA	CL-00
[341]	Late to Close	Whenever the Auto-arm prealert sounds (if the Late to Close option is enabled)	O/C	(4) 54	CI-00
[341]	Exit Fault	If exit fault pre-alert occurs and entry delay expires	O/C	(3) 74	EE-00
[341]	Zone Bypass	Zone is bypassed	O/C	(5) 7A	UB-ZZ
[342-344]	Openings	System disarmed (user 01-32 indicated)	O/C	(4) A1	OP-UU
[344]	Auto-arm Cancellation	Auto-arm cancelled	O/C	(4) 55	CI-00
[344]	Special Opening	Opening (disarming) using one of the following methods: keyswitch, maintenance code, DLS software, wireless key	O/C	(4) AA	OP-00
[345]-[346]	Battery Trouble/Rest.	PC1616/PC1832/PC1864 battery is low/battery restored	MA/R	(3) A2	YT-00/YR-00
[345]-[346]	AC Line Trouble/Rest.	AC power to control panel is disconnected or interrupted/AC power restored (Both codes follow AC Failure Comm. Delay.)	MA/R	(3) A1	AT-00/AR-00
[345]-[346]	Bell Circuit Trouble/Rest.	Open or short circuit detected across bell terminals/bell circuit restored	MA/R	(3) 21	YA-99/YH-99
[345]-[346]	Fire Trouble/Rest.	Trouble occurs/restores on a fire zone	MA/R	(3) 73	FT-99/FJ-99
[345]-[346]	Auxiliary Power Trouble/ Rest.	Aux voltage supply trouble/restoral	MA/R	(3) 12	YP-00/YQ-00
[345]	TLM Failure	Telephone line monitoring trouble	MA/R	(3) 51	LT-01

Section #	Reporting Code	Code Sent When...	Dialer Direction*	Automatic Contact ID Codes	SIA Auto Rep Codes**
[346]	TLM Restore	Telephone line restored	MA/R	(3) 51	LR-01
[345]-[346]	Gen System Trouble/Rest.	"Service Required" trouble occurs (view troubles using [*][2])/trouble restored	MA/R	(3) AA	YX-00/YZ-00
[345]-[346]	Gen System Supervisory Trouble/Rest.	Control panel loses/restores communications with module(s) connected to the Keybus	MA/R	(3) 3A	ET-00/ER-00
[346]	Cold Start (System Reset)	The system has been restarted after a total power loss. The reporting code is sent after a 2 minute start-up delay.	MA/R	(3) A5	RR-00
[347]	Phone# 1 or 2 FTC Restoral	Control panel has restored communications to central station on Phone# 1 or 2 (after FTC)	MA/R	(3) 54	YK-00
[347]	Event Buffer is 75% Full	Event buffer is almost full since last upload	MA/R	(6) 22	JL-00
[347]	DLS Lead In	Downloading session start	MA/R	(4) 11	RB-00
[347]	DLS Lead Out	Downloading session complete	MA/R	(4) 12	RS-00
[347]	Zone Fault/Rest.	One or more zones have faults/restored	MA/R	(3) 8A	UT-ZZ/UJ-ZZ
[347]	Delinquency	Programmed amount of time (days or hours) for delinquency has expired without zone activity, or without system being armed	MA/R	(6) 54***	CD-00
[347]	Wireless Device Low Battery Trouble/Rest.	Wireless zones, panic pendants, handheld keypads, wireless keys have low battery/all low batteries restored	MA/R	(3) 84	XT-00/XR-00 XT-ZZ/XR-ZZ****
[347]	Installer Lead In	Installer's mode has been entered	MA/R	(6)27	LB-00
[347]	Installer Lead Out	Installer's mode has been exited	MA/R	(6)28	LS-00
[348]	Walk Test End	End of test	T	(6) A7	TE-00
[348]	Walk Test Begin	Beginning of test	T	(6) A7	TS-00
[348]	Periodic Test with Trouble	Periodic system test transmission with trouble	T	(6) A8	RY-00
[348]	Periodic Test	Periodic system test transmission	T	(6) A2	RP-00
[348]	System Test	[*][6] bell/communications test	T	(6) A1	RX-00
[601]-[604]	Closings	System armed (user 33-95 indicated)	O/C	(4) A1	CL-UU
[605]-[608]	Openings	System disarmed (user 33-95 indicated)	O/C	(4) A1	OP-UU

\* A/R = alarms/restorals; T/R = tampers/restorals; O/C = openings/closings; MA/R = miscellaneous alarms/restorals; T = test transmissions  
 \*\* uu = user number (user01-95); ZZ = zone number (01-64)  
 \*\*\* Use the "Fail to close" event code [(4)54] to report closing or activity delinquency. Ensure the central station is aware that this code is used.  
 \*\*\*\* Zones are identified, panic pendants, wireless keys, and handheld keypads are not.

**Table 2: Contact ID Programmed Zone Alarm/Restoral Event**

(as per SIA DCS: 'Contact ID' 01-1999): Program any of these codes for zone alarms/restorals when using the standard (non-automatic) Contact ID reporting format.

<b>Medical Alarms</b>	(1)34 Entry / Exit
(1)AA Medical	(1)35 Day / Night
(1)A1 Pendant Transmitter	(1)36 Outdoor
(1)A2 Fail to Report In	(1)37 Tamper
<b>Fire Alarms</b>	(1)38 Near Alarm
(1)1A Fire Alarm	<b>General Alarms</b>
(1)11 Smoke	(1)4A General Alarm
(1)12 Combustion	(1)43 Exp. module failure
(1)13 Water Flow	(1)44 Sensor tamper
(1)14 Heat	(1)45 Module Tamper
(1)15 Pull Station	(1)4A Cross Zone Police Code
(1)16 Duct	<b>24 Hour Non-Burglary</b>
(1)17 Flame	(1)5A 24 Hour non-Burg
(1)18 Near Alarm	(1)51 Gas detected
<b>Panic Alarms</b>	(1)52 Refrigeration
(1)2A Panic	(1)53 Loss of Heat
(1)21 Duress	(1)54 Water Leakage
(1)22 Silent	(1)55 Foil Break
(1)23 Audible	(1)56 Day Trouble
<b>Burglar Alarms</b>	(1)57 Low bottled Gas level
(1)3A Burglary	(1)58 High Temp
(1)31 Perimeter	(1)59 Low Temp
(1)32 Interior	(1)61 Loss of Air Flow
(1)33 24 Hour	

**Table 3: Automatic Zone Alarm/Restoral Code**

Zone Definition	SIA Auto Rep Codes*	Contact ID Auto Rep Codes*
Delay 1	BA-ZZ/BH-ZZ	(1) 3A
Delay 2	BA-ZZ/BH-ZZ	(1) 3A
Instant	BA-ZZ/BH-ZZ	(1) 3A
Interior	BA-ZZ/BH-ZZ	(1) 3A
Interior Stay/Away	BA-ZZ/BH-ZZ	(1) 3A
Delay Stay/Away/24 Hr Non Latching	BA-ZZ/BH-ZZ	(1) 3A
Delayed 24-Hr Fire	FA-ZZ/FH-ZZ	(1) 1A
Standard 24-Hr Fire	FA-ZZ/FH-ZZ	(1) 1A
24-Hr Supervisory	US-ZZ/UR-ZZ	(1) 5A
24-Hr Supervisory Buzzer	UA-ZZ/UH-ZZ	(1) 5A
24-Hr Burg	BA-ZZ/BH-ZZ	(1) 3A
24-Hr Holdup	HA-ZZ/HH-ZZ	(1) 22
24-Hr Gas	GA-ZZ/GH-ZZ	(1) 51
24-Hr Heat	KA-ZZ/KH-ZZ	(1) 58
24-Hr Medical	MA-ZZ/MH-ZZ	(1) AA
24-Hr Panic	PA-ZZ/PH-ZZ	(1) 2A
24-Hr Emergency (non-medical)	QA-ZZ/QH-ZZ	(1) A1
24-Hr Sprinkler	SA-ZZ/SH-ZZ	(1) 13
24-Hr Water	WA-ZZ/WH-ZZ	(1) 54
24-Hr Freeze	ZA-ZZ/ZH-ZZ	(1) 59
24-Hr Latching	UA-ZZ/UH-ZZ	(1) 4A
Interior Delay	BA-ZZ/BH-ZZ	(1) 3A
Auto Verified Fire	FA-ZZ/FH-ZZ	(1) 1A
24-Hr Fire Supervisory	FS-ZZ/FV-ZZ	(2) AA
Day Zone	BA-ZZ/BH-ZZ	(1) 3A
Instant Stay/Away	BA-ZZ/BH-ZZ	(1) 3A
24-Hr Bell/Buzzer	UA-ZZ/UH-ZZ	(1) 5A
Night Zone	BA-ZZ/BH-ZZ	(1) 3A
24-Hr Non-Latching Tamper	TA-ZZ/TR-ZZ	(3) 83
Delayed 24-Hr Fire (Wireless)	FA-ZZ/FH-ZZ	(1) 1A
Standard 24-Hr Fire (Wireless)	FA-ZZ/FH-ZZ	(1) 1A
24-Hr Carbon Monoxide Alarm	GA-ZZ/GH-ZZ	(1) 62

\* ZZ = Zones 01-64

## Appendix B: Troubleshooting Guide

### 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:

#### LCD Programmable-Message Keypad

- Press **[\*][2]** to view a trouble condition.
- The trouble light will flash and the LCD will display the first trouble condition present.
- Use the arrow keys to scroll through all trouble conditions present.

**NOTE:** When additional information is available for a specific trouble condition a **[\*]** will appear on the display.

- Press the **[\*]** key to view the additional information.

#### LED Keypads, LCD Fixed Message Keypads

- Press **[\*][2]** to view a trouble condition.
- The trouble light will flash.
- 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

Trouble	Cause	Troubleshooting
<p><b>Trouble [1] Service Required</b> <span style="float: right;"><b>Press [1] to determine specific trouble</b></span></p>		
<p>[1] Low Battery</p>	<p>Main panel battery less than 11.1VDC</p> <p><b>NOTE:</b> This trouble condition will not clear until the battery voltage is 11.8VDC min., under load.</p>	<p><b>NOTE: If battery is new allow 1 Hr. for battery to charge.</b></p> <ul style="list-style-type: none"> <li>• Verify voltage measured across AC terminals is 16-18 VAC. Replace transformer if required.</li> <li>• Disconnect battery wire leads.                             <ul style="list-style-type: none"> <li>• Verify battery charging voltage measured across battery leads = 13.70 - 13.80 VDC.</li> </ul> </li> <li>• Connect battery, remove AC power.                             <ul style="list-style-type: none"> <li>• Verify measured voltage across battery terminals is 12.5VDC min.</li> </ul> </li> </ul>
<p>[2] Bell Circuit</p>	<p>Bell+, Bell-...Open Circuit</p>	<ul style="list-style-type: none"> <li>• Disconnect Bell-/Bell+ wire leads, measure resistance of wire leads.                             <ul style="list-style-type: none"> <li>• Open circuit indicates break in wiring or defective siren/bell.</li> </ul> </li> <li>• Jumper Bell+, Bell- with 1K resistor (Brown, Black, Red)                             <ul style="list-style-type: none"> <li>• Verify trouble clears.</li> </ul> </li> </ul>
<p>[3] General System Trouble</p>	<p>PC5204 Output#1 Open Circuit</p>	<ul style="list-style-type: none"> <li>• If Output#1 is unused: Ensure that terminals O1, AUX are jumpered with 1K resistor (Brown, Black, Red).</li> <li>• If Output #1 is used: Disconnect wire leads from O1, AUX terminals, measure the resistance of the wire leads.                             <ul style="list-style-type: none"> <li>• Open circuit indicates a break in the wiring.</li> </ul> </li> </ul>
	<p>PC5204 AUX</p>	<ul style="list-style-type: none"> <li>• Verify voltage measured across AC input terminals is 16-18VAC.</li> <li>• Disconnect all connections to PC5204 AUX terminal.                             <ul style="list-style-type: none"> <li>• Verify AUX voltage is 13.70 - 13.80 VDC.</li> </ul> </li> </ul>
	<p>Printer connected to PC5400 offline</p>	<p>Verify printer operation (out of paper, paper jam etc.)</p>
	<p>T-Link Network Fault present T-Link Receiver Trouble present T-Link Interface Trouble present</p>	<p>Refer to the associated T-Link (i.e.TL150, TL250, TL350) Installation Manual for details.</p>
<p>[4] General System Tamper</p>	<p>Tamper input on module(s) open circuit</p>	<p>Short tamper terminal to COM terminal on unused modules connected to KEYBUS (PC5100, PC5108, PC5200, PC5204, PC5208, PC5320, PC5400, PC5700).</p>
<p>[5] Module Supervision</p>	<p>Panel does not communicate with module(s) on KEYBUS</p> <p>Keypad assigned to incorrect slot</p>	<p>Modules are immediately enrolled and supervised when detected on the KEYBUS. If a module has been removed, or if the slot assignment of a keypad has been changed, module supervision must be reset.</p> <ul style="list-style-type: none"> <li>• View the event buffer (via DLS or LCD5500 keypad) to identify the specific module(s) in trouble.</li> <li>• To reset module supervision:                             <ul style="list-style-type: none"> <li>• Enter Program Section [902].</li> <li>• Press [#] (wait 1 minute for panel to scan KEYBUS).</li> </ul> </li> <li>• Enter Program Section [903] to identify modules connected to the KEYBUS.</li> </ul>
<p>[6] RF Jam Detected</p>	<p>Wireless Receiver - excessive noise detected.</p>	<p>Check for external 433MHZ signal sources. To disable RF Jam: enable Option [7] in program section [804] subsection [90].</p>
<p>[7] PC5204 Low Battery</p>	<p>PC5204 battery less than 11.5VDC</p> <p><b>NOTE:</b> This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.</p>	<p>See [1] <b>Low Battery</b> above.</p>
<p>[8] PC5204 AC Failure</p>	<p>No AC at PC5204 AC inputs</p>	<p>Verify voltage measured across AC terminals is 16-18VAC. Replace transformer if required.</p>

Trouble	Cause	Troubleshooting
<b>Trouble [2] AC Failure</b>		
	No AC at panel AC input terminals	Verify voltage measured across AC terminals is 16-18VAC. Replace transformer if required.
<b>Trouble [3] Telephone Line Trouble</b>		
	Phone Line Voltage at TIP, RING on main panel less than 3VDC	<ul style="list-style-type: none"> <li>• Measure the voltage across TIP and RING on the panel:                             <ul style="list-style-type: none"> <li>• <b>No phone off-hook</b> – 50VDC (approx)</li> <li>• <b>Any phone off-hook</b> – 5VDC (approx)</li> </ul> </li> <li>• Wire incoming line directly to TIP and RING.                             <ul style="list-style-type: none"> <li>• If trouble clears, check wiring or the RJ-31 phone jack.</li> </ul> </li> </ul>
<b>Trouble [4] Failure to Communicate</b>		
	Panel fails to communicate one or more events to central station.	<p>Connect a headset to TIP and RING of the control panel. Monitor for the following conditions:</p> <ul style="list-style-type: none"> <li>• <b>Continuous dial tone</b> <ul style="list-style-type: none"> <li>• Reverse TIP and RING.</li> </ul> </li> <li>• <b>Recorded operator message comes on</b> <ul style="list-style-type: none"> <li>• Verify correct phone number is programmed.</li> <li>• Dial the number programmed using a regular telephone to determine if a [9] must be dialed or if 800 service is blocked.</li> </ul> </li> <li>• <b>Panel does not respond to handshakes.</b> <ul style="list-style-type: none"> <li>• Verify the format programmed is supported by the central station.</li> </ul> </li> <li>• <b>Panel transmits data multiple times without receiving a handshake.</b> <ul style="list-style-type: none"> <li>• Verify that the account number and reporting codes are correctly programmed.</li> </ul> </li> </ul> <p><b>NOTE:</b></p> <p><b>Contact ID and Pulse formats</b></p> <ul style="list-style-type: none"> <li>• Program a HEX [A] to transmit a digit [0].</li> </ul> <p><b>SIA format</b></p> <ul style="list-style-type: none"> <li>• Program a digit [0] to transmit a digit [0].</li> </ul>
<b>Trouble [5] Zone Fault      Press [5] to determine specific zones with a fault trouble</b>		
	Open circuit is present on one or more fire zones on the main panel or zone expander.	<ul style="list-style-type: none"> <li>• Ensure fire zones have a 5.6K resistor (Green, Blue, Red) connected.</li> <li>• Remove the wire leads from Z and COM terminals and measure the resistance of the wire leads.                             <ul style="list-style-type: none"> <li>• An open circuit indicates a break in the wiring or resistor not connected.</li> </ul> </li> <li>• Connect a 5.6K resistor (Green, Blue, Red) across the Z and COM terminals. Verify the trouble condition clears.</li> </ul>
	An open circuit is present on PGM2 being used as a 2-wire smoke detector input.	<ul style="list-style-type: none"> <li>• Ensure the correct 2.2K end-of-line resistor is connected (Red, Red, Red).</li> <li>• Remove the wire leads from PGM2 and AUX+ terminals and measure the resistance of the wire leads.                             <ul style="list-style-type: none"> <li>• An open circuit indicates a break in the wiring or no resistor connected.</li> </ul> </li> <li>• Connect a 2.2K resistor (Red, Red, Red) across the PGM2 and AUX+ terminals. Verify the trouble condition clears.</li> </ul>

Trouble	Cause	Troubleshooting
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**Trouble [5] Zone Fault (Cont.)**

	One or more wireless devices have not checked in within the programmed time.	<ul style="list-style-type: none"> <li>• If the trouble occurs immediately, a conflict with a hard wired zone exists:                             <ul style="list-style-type: none"> <li>• The zone being used is already assigned to a PC5108 zone expander.</li> <li>• The zone being used is assigned as a keypad zone.</li> </ul> </li> <li>• Perform a Module Placement Test – Program Section [904] and verify the wireless device is in a good location.                             <ul style="list-style-type: none"> <li>• If bad test results occur, test the wireless device in another location.</li> <li>• If the wireless device now tests good, the original mounting location is bad.</li> <li>• If the wireless device continues to give bad test results replace the wireless device.</li> </ul> </li> </ul>
	A short circuit is present on one or more zones with double end-of-line resistors enabled.	<ul style="list-style-type: none"> <li>• Remove the wire leads from Z and COM terminals and measure the resistance of the wire leads.                             <ul style="list-style-type: none"> <li>• A short circuit indicates a short in the wiring.</li> </ul> </li> <li>• Connect a 5.6K resistor (Green, Blue, Red) across the Z and COM terminals.                             <ul style="list-style-type: none"> <li>• Verify the trouble condition clears.</li> </ul> </li> </ul>

**Trouble [6] Zone Tamper**

**Press [6] to determine specific zones with a tamper trouble**

	A tamper condition is present on one or more wireless devices.	<ul style="list-style-type: none"> <li>• Perform a Module Placement Test –Section [904].</li> <li>• Violate, then restore the tamper:                             <ul style="list-style-type: none"> <li>• If no test result then replace wireless device.</li> </ul> </li> </ul>
	An open circuit is present on one or more zones with double end-of-line resistors enabled.	<ul style="list-style-type: none"> <li>• Remove the wire leads from Z and COM terminals.</li> <li>• Measure the resistance of the wire leads.                             <ul style="list-style-type: none"> <li>• Open circuit indicates a break in the wiring.</li> </ul> </li> <li>• Connect a 5.6K resistor (Green, Blue, Red) across the Z and COM terminals.                             <ul style="list-style-type: none"> <li>• Verify the trouble condition clears.</li> </ul> </li> </ul>

**Trouble [7] Wireless Device Low Battery/Delinquency**

**Press [7] to toggle through specific device troubles.**

<p><b>1st press</b> – Wireless Zones</p> <p><b>2nd press</b> – Handheld Keypads</p> <p><b>3rd press</b> – Wireless Keys</p> <p><b>4th press</b> – RF Delinquency</p>	<p>One or more wireless devices has a low battery or is delinquent.</p> <p><b>NOTE:</b> The event will not be logged to the event buffer until the wireless device low battery delay time expires.</p> <ul style="list-style-type: none"> <li>• Program Section [377] Opt 9.</li> </ul>	<p>Replace battery for zones with low battery trouble. Perform walk test to ensure zone is functioning if zone is delinquent.</p> <p><b>NOTE:</b> Replacing batteries will cause a tamper. Replacing cover will restore the tamper causing the associated reporting codes to be sent to the Central Station.</p>
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**Trouble [8] Loss of Clock/Date**

	The main panel internal clock is not set	<p><b>To program the time and date:</b></p> <ul style="list-style-type: none"> <li>• Enter [*][6][Master Code] then Press [1]</li> <li>• Enter the time and date (in military) using the following format: <b>HH:MM MM/DD/YY</b></li> </ul> <p><b>Example.</b> For 6:00 pm, Dec 25, 2010 <b>Enter:</b> [18] [00] [12] [25] [10]</p>
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## Appendix C: Template Programming

Template programming allows quick programming of the minimum functions required for basic operation. The tables below are used to determine the desired template to be used ( for information on performing template programming see **Section 4 – Programming Descriptions**). Each digit represents 1 of the template sections listed below. The option number selected for each digit will make up the 5-digit template programming code.

- **Digit 1** selects Zone 1-8 definition options.

Option	Zn1	Zn2	Zn3	Zn4	Zn5	Zn6	Zn7	Zn8
1	1	3	3	3	4	4	4	4
2	1	3	3	5	5	5	5	8
3	1	3	3	5	5	5	5	7
4	1	1	3	3	3	3	3	3
5	1	3	3	6	5	5	5	5
6	1	3	3	6	5	5	5	8
Refer to Section 5 for Zone definition details								

1 Delay 1
2 Delay 2
3 Instant
4 Interior
5 Interior Stay/Away
6 Delayed Stay/Away
7 Delayed 24-Hour Fire
8 Standard 24-Hour Fire

- **Digit 2** selects system EOL configuration options.

Option		[013] Opt 1	[013] Opt 2
1	NC loops	ON	OFF
2	SEOL	OFF	OFF
3	DEOL	OFF	ON

- **Digit 3** selects panel communications options.

Op#	Phone Line 1	Programming Section	Phone Line 2	Programming Section
1	Disabled	[380] Opt 1 OFF	Disabled	[380] Opt 1 OFF
2	SIA automatic Reporting Codes enabled	[350] 1st Phone # [04] [380] Opt 1 ON [381] Opt 3 OFF	SIA automatic Reporting Codes enabled	[350] 2nd Phone # [XX]
3	Contact ID Automatic Reporting Codes enabled	[350] 1st Phone # [03] [380] Opt 1 ON [381] Opt 7 OFF	SIA automatic Reporting Codes enabled	[350] 2nd Phone # [XX]
4	SIA automatic Reporting Codes enabled	[350] 1st Phone # [04] [380] Opt 1 ON [381] Opt 3 OFF	Residential Dial Enabled	[350] 2nd Phone # [06]
5	Contact ID Automatic Reporting Codes enabled	[350] 1st Phone # [03] [380] Opt 1 ON [381] Opt 7 OFF	Residential Dial Enabled	[350] 2nd Phone # [06]
6	Contact ID Automatic Reporting Codes enabled	[350] 1st Phone # [03] [380] Opt 1 ON [381] Opt 7 OFF	Contact ID Reporting Codes Enabled	[350] 2nd Phone # [03]



- **Digit 4** selects reporting code configurations

Option	Common Group	Selected Troubles	Openings/Closings	Zone Restorals	DLS/Installer Lead In/Out
1	✓			✗	✗
2	✓	✓		✗	✗
3	✓		✓	✗	✗
4	✓	✓	✓	✗	✗
5	✓	✓			✗
6	✓		✓		✗
7	✓	✓	✓		✗
8	✓				

✓ indicates included, Blank indicates default setting, ✗ indicates disabled

### Common Group

Description	Phone 1	Phone 2	Sections
Set all Reporting Codes to automatic			[320] - [349], [601] - [608] FF
Alarm/Restore call directions enabled	✓		[351][1] ON, [2] OFF
Tamper/Restore Call directions disabled	✓	✓	[359][1] OFF, [2] OFF
Opening/Closing Call directions disabled	✓	✓	[367][1] OFF, [2] OFF
Maintenance Call Directions enabled	✓		[375][1] ON, [2] OFF
Test Transmission Call directions disabled	✓	✓	[376][1] OFF, [2] OFF

### Selected Troubles

Trouble	[345] Alarms	[346] Restoral
Battery	FF	FF
AC Failure	00	00
Bell Circuit	FF	FF
Fire, Alarm	FF	FF
Aux PS	FF	FF
TLM	00	FF
General System	00	00
General System Supervisory	FF	FF

FF = Communicate in automatic format , 00 = Disabled

## Openings & Closings

Users	CLOSINGS, Residential Dial Reporting codes								Section
1-8	51	52	53	54	55	56	57	58	[339]
9-16	61	62	63	64	65	66	67	68	[339]
17-24	71	72	73	74	75	76	77	78	[340]
25-32	81	82	83	84	85	86	87	88	[340]
33-40	FF	FF	FF	FF	FF	FF	FF	98	[601]
Users	OPENINGS, Residential Dial Reporting codes								Section
1-8	11	12	13	14	15	16	17	18	[342]
9-16	21	22	23	24	25	26	27	28	[342]
17-24	31	32	33	34	35	36	37	38	[343]
25-32	41	42	43	44	45	46	47	48	[343]
33-40	FF	FF	FF	FF	FF	FF	FF	98	[605]
Enable Opening/Closings call directions for Phone 2									[367]

## Zone Restorals

Zones	Alarm Restoral Reporting Codes								Section
1-64	00	00	00	00	00	00	00	00	[324]-[327]
00 = Disabled									

## DLS/Installer Lead IN/OUT

Miscellaneous Maintenance Reporting Codes											Section	
DEF	DEF	DEF	00	00	DEF	DEF	DEF	DEF	DEF	00	00	[347]
DEF = No change to default values, 00 = Disabled												

- **Digit 5** selects DLS connection options

Option	Programming Section	DLS Connection/Call back setting
1	[401] Option 1 OFF Option 3 OFF [406] 0	Double Call Disabled, Call Back Disabled Number of rings to answer on set to 0
2	[401] Option 1 ON Option 3 OFF [406] 9	Double Call Enabled, Call Back Disabled Number of rings to answer on set to 9
3	[401] Option 1 ON Option 3 ON [406] 9	Double Call Enabled, Call Back Enabled Number of rings to answer on set to 9

## Appendix D: Communicator Format Options

This section requires two 2-digit entries to set the communication format that is to be used for each phone number (1 per phone number). The 3rd telephone number uses the format programmed for the 1st telephone number.

01	20 BPS, 1400 HZ handshake
02	20 BPS, 2300 HZ handshake
03	DTMF CONTACT I.D.
04	SIA FSK
05	Pager
06	Residential Dial
07	10 BPS, 1400 Hz handshake
08	10 BPS, 2300 Hz handshake
09	Private Line
10	Scantronics 4-8-1 Fast Slot
11	For Future Use
12	Robofon
13	CESA 200

### Reporting Codes

- SIA-0 is valid in Account or Rep Code (not 00 in a Reporting code though).
- ADEMCO Contact ID - 0 is not valid in Account or Rep Code (A must be used, 10 in checksum).
- BPS Formats - 0 is not valid in Account or Rep Code (A must be used).
- SIA - This format uses 300 Baud FSK as the communication media. The Account Code can be 4 or 6 hexadecimal digits in length, All reporting codes must be 2 digits in length. The SIA format will transmit a 4 (or 6) digit account code, a 2-digit identifier code and a 2-digit reporting code. The 2-digit identifier is pre programmed by the panel.

### Contact ID

Contact ID is a specialized format that will communicate information quickly using tones rather than pulses. In addition to sending information more quickly the format also allows more information to be sent. For example, rather than only reporting an alarm zone, 1 the Contact ID format can also report the type of alarm, such as Entry/Exit alarm zone 1.

If **Contact ID Sends Automatic Reporting Codes** is selected, the panel will automatically generate a reporting code for each event. These identifiers are listed in Appendix A. If the Automatic Contact ID option is not selected, reporting codes must be programmed. The 2-digit entry determines the type of alarm. The panel will automatically generate all other information, including the zone number.

**NOTE:** If the Automatic Contact ID option is selected, the panel will automatically generate all zone and access code numbers, eliminating the need to program these items.

**NOTE:** The zone number for Zone Low Battery and Zone Fault events will not be identified when Programmed Contact ID is used.

If the **Contact ID uses Automatic Reporting Codes** option is enabled, the panel will operate as follows:

- If an event's reporting code is programmed as [00], the panel will not attempt to call the central station.
- If the reporting code for an event is programmed as anything from [01] to [FF], the panel will automatically generate the zone or access code number. See Appendix A for a list of the codes which will be transmitted.

If the **Contact ID uses Programmed Reporting Codes** option is enabled, the panel will operate as follows:

- If an event's reporting code is programmed as [00] or [FF], the panel will not attempt to call central station.
- If the reporting code for an event is programmed as anything from [01] to [FE], the panel will send the programmed reporting code.
- Account numbers must be four digits.
- If the digit '0' is in the account number substitute the HEX digit 'A' for the '0'.
- All reporting codes must be two digits.
- If the digit '0' is in the reporting code, substitute the HEX digit 'A' for the '0'.
- To prevent the panel from reporting an event, program the reporting code for the event as [00] or [FF].

**NOTE:** This communication format cannot be selected if Downlook is required.

.....  
 Contact ID Sends Automatic Reporting Codes Section [381], Option [7]  
 .....

### SIA (Level 2)

SIA is a specialized format that will communicate information quickly using frequency shift keying (FSK) rather than pulses. The SIA format will automatically generate the type of signal being transmitted, such as Burglary, Fire, Panic etc. The two-digit reporting code is used to identify the zone or access code number.

**NOTE:** SIA format must be used if Downlook is required.

If the SIA format is selected the panel can be programmed to automatically generate all zone and access code numbers eliminating the need to program these items.

If the **SIA Sends Automatic Reporting Codes** option is enabled the panel will operate as follows:

1. If the reporting code for an event is programmed as [00] the panel will not attempt to call the central station.
2. If the reporting code for an event is programmed as anything from [01] to [FF] the panel will AUTOMATICALLY generate the zone or access code number.
3. Bypassed zones will always be identified when partial closing the system.

The Communicator Call Direction Options can be used to disable reporting of events such as Openings/Closings. Also, if all the Opening/Closing reporting codes were programmed as [00] the panel would not report.

If the **SIA Sends Automatic Reporting Codes** option is disabled the panel will operate as follows:

1. If the reporting code for an event is programmed as [00] or [FF] the panel will not attempt to call the central station.
2. If the reporting code for an event is programmed as anything from [01] to [FE] the panel will send the programmed reporting code.
3. Bypassed zones will not be identified when partial closing the system.

**NOTE:** If using Downlook, do not program the second telephone number for the SIA reporting code format (Section [360]) if the Automatic Reporting Code option is enabled (Section [381]).

**NOTE:** The zone number for Zone Low Battery and Zone Fault events will not be identified when Programmed SIA is used.

.....  
 SIA Sends Automatic Reporting Codes Section [381], Option [3]  
 Communicator Call Direction Options Section [351] to [376]  
 SIA Identifiers Appendix A  
 .....

### Residential Dial

If Residential Dial is programmed and an event that is programmed to communicate occurs, the panel will seize the line and dial the appropriate telephone number(s). Once the dialing is

complete, the panel will emit an ID tone and wait for a handshake (press a 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, \* or # key from any telephone). It will wait for this handshake for the duration of **Post Dial Wait for Handshake** timer. Once the panel receives the handshake, it will emit an alarm tone over the telephone line for 20 seconds. If several alarms occur at the same time, only one call will be made to each telephone number the panel is programmed to call.

.....  
 Communicator Call Direction Options Section [361] to [368]  
 .....

**Private Line Format**

The **Private Line** format allows the communication of zone alarms directly to a user over a telephone line. When an event occurs that the panel is programmed to communicate, the panel seizes the line and dials the programmed telephone number(s). The panel then emits a double beep on the line every 3 seconds. This indicates to the user receiving the call that the control panel is calling.

The user must acknowledge the call by pressing 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, \* or # from any touchtone telephone. The panel will wait for this acknowledgment for the duration of **Post Dial Wait for Handshake** timer.

The panel will then indicate which zone is in alarm by sounding a corresponding number of beeps (e.g., three beeps for Zone 3). The user must then press a key (1, 2, 3, 4, 5, 6, 7, 8, 9, 0, \* or #) to acknowledge the alarm. If the panel has another alarm to communicate, it will sound a corresponding number of beeps for the new zone alarm. The user must then press a key to acknowledge the signal. When there are no further alarms, the panel will hang up.

**NOTE:** Events not received by the central station due to an FTC will not be transmitted via the Private Line format.

.....  
 Post Dial Wait for Handshake Section[161]  
 .....

**Pager Format**

The **Communicator Format** option for either telephone number can be programmed for Pager Format. If an event occurs and the **Communicator Call Direction** options direct the call to a telephone number with the Pager Format selected the panel will attempt to page.

When calling a pager, extra digits will be required to make it work properly. The following is a list of Hex digits and what function they perform:

- Hex [A] - not used
- Hex [B] - simulates the [ ] key on a touch tone telephone
- Hex [E] - two second pause
- Hex [C] - simulates the [#] key on a touch tone telephone
- Hex [F] - end of telephone number marker
- Hex [D] - forces the panel to search for dial tone

The panel will attempt to call the pager one time. After dialing the digits in the telephone number the panel will send the account number and reporting code followed by the [#] key (Hex [C]).

There is no ringback when using Pager Format. The panel has no way of confirming if the pager was called successfully; a failure to communicate trouble will only be generated once the maximum number of attempts has been reached.

**NOTE:** Do not use the digit C in a reporting code when using Pager Format. In most cases, the digit C will be interpreted as a [#], which will terminate the page before it has finished.

**NOTE:** If the panel detects a busy signal, it will attempt to page again. It will make the maximum number of attempts programmed in section [165].

Force dialing should be disabled when using Pager format.

**NOTE:** When using Pager format, you must program two hex digit E's at the end of the telephone number.

**Pulse Formats**

Depending on the pulse format selected the panel will communicate using the following:

- 3/1, 3/2, 4/1 or 4/2
- 1400 or 2300 Hz handshake
- 10 or 20 bits per second
- non-extended

The digit '0' will send no pulses and is used as a filler. When programming account numbers enter four digits. When programming a three-digit account number, the fourth digit must be programmed as a plain '0' which will act as a filler digit.

If an account number has a '0' in it, substitute a HEX digit 'A' for the '0'. Examples:

- 3 digit account number [123]- program [1230]
- 3 digit account number [502] - program [5A20]
- 4 digit account number [4079] - program [4A79]

When programming reporting codes, two digits must be entered. If one digit reporting codes are to be used, the second digit must be programmed as a '0'. If a '0' is to be transmitted, substitute a HEX digit 'A' for the '0'.

Examples:

- 1 digit reporting code [3] - program [30]
- 2 digit reporting code [30] - program [3A]

To prevent the panel from reporting an event, program the reporting code for the event as [00] or [FF].

**NOTE:** This communication format cannot be selected if Downlook is required.

**Scantronics Format**

This is a DTMF format that sends reporting codes as:

- One 4-digit account code
- Eight 1-digit reporting channels (event code)
- One 1-digit status channel

The software automatically generates a code for the event based on the programming of the call direction groups.

**Channels**

	1	2	3	4	5	6	7	8	
aaaa	x	x	x	x	x	x	x	x	i

**Account Code**                      **Event Code**                      **Status Code**

When you program the reporting codes for zones and events (programming sections [320]-[353]), program them in the format XY, where:

**X= channels 1-8**    **Y= event code (0-9)**

If your central station uses a Scantronics 5100 receiver, only program numbers from 1 to 6 for the event code.

**Example:** If you program the zone 3 alarm reporting code as [31], the panel will send event code 1 in channel 3. The panel will send the number 5 for each of the other channels, so that the event code will look like:

**5 5 1 5 5 5 5 5**

The panel will send the status code (i) based on the status of the zone:

**7 = Alarms, Tamper, Restorals, Openings & Closings**

**8 = Trouble or Trouble Restoral**

**9 = Test Transmission.**

**Example:** If there is an alarm on Zone 3 the panel will send:

**a a a a 5 5 1 5 5 5 5 5 7**

To disable communication for specific events, program '00' or 'FF' for the reporting code.

**Robofon Format**

The control panel can use ROBOFON communication format to transmit alarm messages to a receiver. When the panel acts as the ROBOFON dialer, it can receive the following ASCII signals using ODD parity:

- HANDSHAKE: 77 Hex, actually received as F7 Hex.
- ACK: 06 Hex, actually received as 86 Hex.
- NAK: 15 Hex, actually received as 15 Hex.

The data is received by the receiver as 1000Hz tones at 20 ms/bit. A "0" in the bit pattern represents tone on for 20ms, and a "1" in the bit pattern represents tone off for 20ms. The data bytes are transmitted least-significant-bit (LSB) first. The data is transmitted in the following format:

- S D1 D2 D3 D4 D5 D6 D7 D8 EXT CHKSUM

Where:

Data	Description
S	55 Hex as start signal
D1	30 Hex, as the first digit of the account code.
D2	30 Hex, as the second digit of the account code
D3 to D6	3X Hex, as the following 4 digits of the account codes, X = 0 - 9
D7 to D8	3X Hex, as the 2 digits of the report codes. X= 0-9, A-F
EXT	03 Hex, as the end of transmission signal
CHKSUM	YY, it is the XOR of D1-D8 and then XORed with the EXT

The panel will wait the programmed "Wait for Handshake" duration for the initial handshake. It will wait 20 sec for any subsequent handshake during the same phone call.

**200 Baud FSK (CESA)**

This format transmits with the LSB first in the data stream using 1 start bit, 8 data bits, and 2 stop bits (no parity).

The information transmitted is as follows:

- Five Digit Decimal Account Code
- One Digit Event Identifier
- Two Digit Zone Number (00-99)
- Eight Zeros (filler)

After the panel dials, this format looks for a 960 ms FSK handshake at 1850 Hz for 15 ms, 1650 Hz for 15 ms, and 1850 Hz for 15 ms again repeated 32 times. The panel will proceed to send its carrier by emitting 1180 Hz for a period of 800 ms to 1 second, followed by the event utilizing 980 Hz for a Mark (1) and 1180 for a Space (0) at 200 Baud. The panel will send the exact same transmission twice in a row with a 600-800 ms pause. If the two transmissions match exactly, the receiver will give acknowledgement by giving the panel the same FSK pattern as the hand-

shake. The panel can then hang up, or repeat the process indefinitely until it has no further events to transmit.

In the event that the two transmissions do not match, the panel will re-transmit the transmission once if no kiss-off is received after three seconds. The panel will repeat this a total of five times before counting the round as a failed attempt.

The Event Identifier can represent one of the following events:

- 0 = Talk/Listen Audio Event (any event type)
- 1 = New Event (Alarm, Tamper, Trouble, etc.)
- 2 = Event Restore (Alarm Restore, Low Battery Restore, etc.)

An option exists in Section [381] Option 5 ON that allows the identifiers for 1 Arming (Closings) and 2 Disarming (Openings) to be reversed.

The following is a list of what hex characters are actually transmitted by this format and what numbers they represent:

Transmitted	Value	Transmitted	Value
9E	0	8A	5
8E	1	92	6
96	2	82	7
86	3	9C	8
9A	4	8C	9

**NOTE:** The Talk/Listen Audio Event overrides any other Event Identifier.

The first five digits of the Account Codes must be used for proper operation.

**Telephone Line Monitoring (TLM)**

When the **TLM Enable** option is selected, the panel will supervise the telephone line and will indicate a trouble condition if the telephone line is disconnected.

If the TLM Enable option is ON, the panel will check the telephone line every 10 seconds. If the telephone line voltage is below 3V for the number of checks programmed in the **TLM Trouble Delay** section, the panel will report a TLM trouble. The default number of checks is 10. Enter a number from (000) to (255) in the TLM Trouble Delay section to change the number of checks before the TLM trouble is reported. Programming a delay means that a momentary interruption of the telephone line will not cause a trouble condition.

If the **TLM Trouble Beeps When Armed** option is enabled, the panel will indicate a TLM trouble at the keypad while the system is armed. To activate the bell output in the case of a TLM trouble while the system is armed, the **TLM Audible (Bell) When Armed** option must be selected.

When the trouble condition is restored, the panel can send a **TLM Restoral** reporting code. Any events which occur while the telephone line is down will also be communicated. If an alternate communicator is being used, the panel can be programmed to report a **TLM Trouble Reporting Code**.

## SAFETY INSTRUCTIONS FOR SERVICE PERSONNEL

**WARNING:** When using equipment connected to the telephone network, there are basic safety instructions that should always be followed. Refer to the Safety Instructions provided with this product; save them for future reference. Instruct the end-user regarding the safety precautions that shall be observed when operating this equipment.

### Selecting a Suitable Location for the Alarm Controller

Use the following list as a guide to find a suitable place for this equipment:

- Locate the control panel near a telephone socket and a power outlet.
  - Select a place that is free from vibration and shock.
  - Place the alarm controller on a flat, stable surface and follow the installation instructions:
    - Do **NOT** locate this product where persons can walk on the secondary circuit cable(s).
    - Do **NOT** connect the alarm controller to electrical outlets on the same circuit as large appliances.
    - Do **NOT** select a place that exposes the alarm controller to direct sunlight, excessive heat, moisture, vapors, chemicals or dust.
    - Do **NOT** install this equipment near water (e.g., bathtub, wash bowl, kitchen/laundry sink, wet basement, or near a swimming pool).
    - Do **NOT** install this equipment and its accessories in areas where there is a risk of explosion.
    - Do **NOT** connect this alarm controller to electrical outlets controlled by wall switches or automatic timers.
- AVOID** sources of radio interference.
- AVOID** setting up the equipment near heaters, air conditioners, ventilators, and/or refrigerators.
- AVOID** locating this equipment close to or on top of large metal objects (e.g., metal wall studs).

### Safety Precautions Required During Installation

- **NEVER** install this equipment and/or telephone wiring during a lightning storm.
- **NEVER** touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Ensure that cables are positioned so that accidents can not occur. Connected cables must not be subject to excessive mechanical strain.
- For Direct Plug-in versions, use the transformer supplied with the device.

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 shall be observed.

# WARNING

## 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, barbecues, 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.

# Limited Warranty

Digital Security Controls (DSC) 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 DSC);
- 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' 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.

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