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Guidelines for Locating Smoke Detectors and CO Detectors

The following information is for general guidance only and it is recommended that local fire codes and regulations be consulted when locating and installing smoke and carbon monoxide alarms.

Smoke Detectors

Research indicates that all hostile fires in homes generate smoke to a greater or lesser extent. Detectable quantities of smoke precede detectable levels of heat in most cases. Smoke alarms should be installed outside of each sleeping area and on each level of the home. DSC recommends that additional smoke alarms beyond those required for minimum protection be installed. Additional areas that should be protected include: the basement; bedrooms, especially where smokers sleep; dining rooms; furnace and utility rooms; and any hallways not protected by the required units.

On smooth ceilings, detectors may be spaced 9.1m (30 feet) apart as a guide. Other spacing may be required depending on ceiling height, air movement, the presence of joists, uninsulated ceilings, etc. Consult National Fire Alarm Code NFPA 72, CAN/ULC-S553-02 or other appropriate national standards for installation recommendations.

• Do not locate smoke detectors at the top of peaked or gabled ceilings; dead air space in these locations may prevent smoke detection.

• Avoid areas with turbulent air flow, such as near doors, fans or windows. Rapid air movement around the detector may prevent smoke from entering the unit.

• Do not locate detectors in areas of high humidity.

• Do not locate detectors in areas where the temperature rises above 38°C (100°F) or falls below 5°C (41°F).

• Smoke detectors should always be installed in USA in accordance with Chapter 11 of NFPA 72, the National Fire Alarm Code: 11.5.1.1. Where required by applicable laws, codes, or standards for a specific type of occupancy, approved single- and multiple-station smoke alarms shall be installed as follows:

  (1) In all sleeping rooms and guest rooms.

  (2) Outside of each separate dwelling unit sleeping area, within 6.4 m (21 ft) of any door to a sleeping room, the distance measured along a path of travel.

  (3) On every level of a dwelling unit, including basements.

  (4) On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics.

  (5) In the living area(s) of a guest suite.

  (6) In the living area(s) of a residential board and care occupancy (small facility).

CO Detectors

Carbon monoxide gas moves freely in the air. The human body is most vulnerable to the effects of CO gas during sleeping hours. For maximum protection, a CO alarm should be located outside primary sleeping areas or on each level of your home. Figure 5 indicates the suggested locations in the home. The electronic sensor detects carbon monoxide, measures the concentration and sounds a loud alarm before a potentially harmful level is reached.

Do NOT place the CO alarm in the following areas:

• Where the temperature may drop below -10°C or exceed 40 °C.

• Near paint thinner fumes.

• Within 5 feet (1.5 meters) of open flame appliances such as furnaces, stoves and fireplaces.

• In exhaust streams from gas engines, vents, flues or chimneys.

• In close proximity to an automobile exhaust pipe; this will damage the detector.
Chapter 1 Installation & Wiring

This Installation Guide provides the basic installation, wiring and programming information required to program the PowerSeries PC1616, PC1832, and PC1864 control panels.

All necessary information required to meet UL Listing requirements is included in this document.

Technical Summary

### OUT OF THE BOX

<table>
<thead>
<tr>
<th>Qty 1</th>
<th>Cabinet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qty 1</td>
<td>PC Module</td>
</tr>
<tr>
<td>Qty 1</td>
<td>Installation Guide</td>
</tr>
<tr>
<td>Qty 1</td>
<td>User Manual</td>
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<td>Qty 1</td>
<td>Cabinet Label</td>
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<td>Qty 5</td>
<td>Standoffs</td>
</tr>
<tr>
<td>Qty 16</td>
<td>5.6KΩ Resistors</td>
</tr>
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<td>Qty 1</td>
<td>2.2KΩ Resistor</td>
</tr>
<tr>
<td>Qty 1</td>
<td>1.0KΩ Resistor</td>
</tr>
<tr>
<td>Qty 1</td>
<td>Grounding Kit</td>
</tr>
</tbody>
</table>

### FEATURES

<table>
<thead>
<tr>
<th>PC1616</th>
<th>PC1832</th>
<th>PC1864</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-board Zones</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Hardwired Zones</td>
<td>16 (1xPC5108)</td>
<td>32 (3xPC5108)</td>
</tr>
<tr>
<td>Wireless Zones</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>Keypad Zone Support</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>On-board PGM Outputs</td>
<td>PGM 1 - 50mA</td>
<td>PGM 2 - 300mA</td>
</tr>
<tr>
<td>PGM Expansion</td>
<td>8x50mA (PC5208)</td>
<td>8x50mA (PC5208)</td>
</tr>
<tr>
<td>Keypads</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Partitions</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>User Codes</td>
<td>47 + Master Code</td>
<td>71 + Master Code</td>
</tr>
<tr>
<td>Event Buffer</td>
<td>500 Events</td>
<td>500 Events</td>
</tr>
<tr>
<td>Transformer Required</td>
<td>16.5VAC/40VA</td>
<td>16.5VAC/40VA</td>
</tr>
<tr>
<td>Battery Required</td>
<td>4Ah / 7Ah/14AHr</td>
<td>4Ah / 7Ah/14AHr</td>
</tr>
<tr>
<td>Bell Output</td>
<td>12V/700 mA (cont)</td>
<td>12V/700 mA (cont)</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

- **Temp Range**: 0°C-49°C (32°F-120°F)
- **Humidity (Max)**: 93% R.H.
- **Power Supply**: 16.5VAC/40VA @60Hz
- **Current Draw (Panel)**: 110mA (nom.)
- **Aux+ Output**: 11.1-12.6VDC/700mA
- **Battery Required**: 4Ah / 7Ah/14AHr

### COMPATIBLE DEVICES

#### Keypads

- PK55XX Keypad..............................................................125mA (max.)
- RFK55XX Keypad..............................................................135mA (max.)
- LCD5511 Fixed Message LCD Keypad...........................................85mA (max.)
- LED5511Z 8-zone LED Keypad.................................................100mA (max.)

#### Cabinets

- PC5003C.................................................................222x298x78mm (11.3x11.7x3.0in)
- PC500C (residential burg only) .............................................213x235x78mm (8.4x9.25x3.0in)
- PC4005CAR (UL commercial burg) .............................................305x376x124mm (12.0x14.8x4.9in)
- CMC-1 (UL commercial burg) ......................................................287x297x76mm (11.3x11.7x3.0in)
- Suttle, SAE 14.................................................................355.6 x 362 x 95mm (14x14.25x3.75in)
- Suttle, SAE 21.................................................................353.4 x 362 x 95mm (14x14.25x3.75in)
- Suttle, SAE 28.................................................................711.2 x 362 x 95mm (28x14.25x3.75in)
- Suttle, SAE 42.................................................................1066.8 x 362 x 95mm (42x14.25x3.75in)

#### Modules

- 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

*The T-Link TL-150 is not UL/ULC listed*

### INSTALLATION

Begin the installation by mounting additional modules in the cabinet using the stand-offs 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.

All wiring entry points are designated by arrows. All circuits are classified UL power limited except for the battery leads. Minimum 1/4” (6.4mm) separation must be maintained at all points between power limited and non-power limited wiring and connections.
PowerSeries - PC1616/PC1832/PC1864

PC1616/1832/1864 Wiring Diagram

1. Insert Stand off into cabinet mounting hole in the desired location. Snap-in-place.

230 VAC/50 Hz International

Primary: 120VAC/60Hz. Secondary: 16.5VAC 40VA
DSCPTD 1640U
Class II Transformer

NOTE: Do not connect transformer to receptacle controlled by a switch.

WARNING: Incorrect connections may result in PTC failure or improper operation.
Inspect wiring and ensure connections are correct before applying power.
Incorrect connection of batteries may result in battery rupture or Fire Hazard.
Do NOT allow metal objects to connect the Positive and Negative Terminals.
Ensure that batteries are connected with correct polarity [Red to (+), Black to (-)].
Failure to comply with this may result in battery rupture and/or Fire Hazard.
All circuits are classified for UL Installations as Power Limited/Class II Power Limited except for battery leads which are not power limited.

Do NOT route any wiring over circuit boards. Maintain at least 1" (25.4mm) separation.
A minimum of 1/4" (6.4mm) separation must be maintained at all points between power limited wiring and all other non-power limited wiring.

IMPORTANT:

a) This equipment, Alarm Controller PC1616/1832/1864 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.]

b) The connection to the mains supply must be made as per the local authorities rules and regulations.
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.

c) The equipment enclosure must be secured to the building structure before operation.

e) 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

f) Disposal of the used batteries shall be made according to the waste recovery and recycling regulations applicable to the intended market.

WARNING: High Voltage. Disconnect AC Power and telephone lines before servicing.
1.1 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, max. 18 AWG (2-wire twisted preferred)
- Do not use shielded wire
- Modules can be home run, connected in series or T-tapped, provided that the maximum wire distance from the control panel to any module does not exceed 1,000 feet (305m)
- No more than 3,000 feet (915m) of wire can be used in total

1.2 Zone Wiring

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

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

<table>
<thead>
<tr>
<th>Wire Gauge</th>
<th>Maximum Wire Length to End-of-Line Resistor (ft/meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>3000 / 914</td>
</tr>
<tr>
<td>20</td>
<td>4900 / 1493</td>
</tr>
<tr>
<td>19</td>
<td>6200 / 1889</td>
</tr>
<tr>
<td>18</td>
<td>7800 / 2377</td>
</tr>
</tbody>
</table>

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

Zone Status - Loop Resistance/Loop Status

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

1.3 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
- PC5700 enrolls as two modules
- Do NOT use PC5108 v1 and PC5108 v2 on the same panel

<table>
<thead>
<tr>
<th>Module Jumpers</th>
<th>Zones Assigned</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1</td>
<td>J2</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

Refer to the associated installation sheet for Jumper locations for the PC5108 v1 and PC5700.

1.4 Bell Wiring

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

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].

\[
\text{CONTROL PANEL} \quad 150' (46m) \quad 150' (46m) \quad 500' (152m)
\]

<table>
<thead>
<tr>
<th>Burglary Zone Wiring Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Gauge</td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td>22</td>
</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>19</td>
</tr>
<tr>
<td>18</td>
</tr>
</tbody>
</table>

Figures are based on maximum wiring resistance of 100Ω

- Tamper - infinite (broken wire, open)
- Violated - 11,200Ω (contact open)
1.5 AUX Power Wiring

The control panel can provide a maximum of 700mA of current for modules, powered detectors, relays, LEDs, etc. If the total current required exceeds 700mA, an additional power supply is required (e.g., PC5200, PC5204). See list below.

Min/max operating voltages for devices, sensors and modules is 9.5Vdc - 14Vdc.

1.6 PGM Wiring

PGMs switch to ground when activated from the 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 current levels greater than 300mA, a relay is required. PGM2 can also be used for 2-wire smoke detectors.

NOTE: Use SEOL resistors on fire zones only.

LED output with current limiting resistor and optional relay driver output

1.7 Carbon Monoxide Detector Wiring

The following hardwired CO Detector models can be used with PC1616/PC1832/PC1864 v4.5 (and higher) control panels:
- Potter Model CO-12/24, UL File E321434
- Quantum Model 12-24SIR, UL File E186246
- NAPCO Model FW-CO12 or FW-CO1224, UL File E306780
- System Sensor Model CO1224, UL File E307195

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

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

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

1.9 Ground

Ground Installation

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

1.10 Battery

Battery Charging Current: 400 mA

<table>
<thead>
<tr>
<th>Battery Size</th>
<th>4HR</th>
<th>24Hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>4Ahr</td>
<td>700mA</td>
<td>----</td>
</tr>
<tr>
<td>7Ahr</td>
<td>700mA</td>
<td>180mA</td>
</tr>
<tr>
<td>14Ahr</td>
<td>700mA</td>
<td>470mA</td>
</tr>
</tbody>
</table>

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

1.11 AC Wiring

AC Wiring (UL Listed Installations)

Primary: 120VAC/60Hz./0.33A
Secondary: 16.5VAC/40VA DSC PTD1640U, DSC PTC1640U, PTC1640UG(UL) / PTC1640CG (ULC)
DSC PTD1640U-CC Plug-in, Class 2 Transformer.

NOTE: Use DSC PTD1640 for Canadian installations.

For UL Listed installations, do NOT connect transformer to a receptacle controlled by a switch.

1.12 RFK5500 and RFK5564 Easy Wireless Enrollment Procedure

1. Enter [#][8][Installer Code][898]. The LCD displays the following: “Wireless Enrollment Mode.”
2. Place the wireless device in the desired location.
3. Activate the device as described in the associated installation sheet. The electronic serial number (ESN) is displayed.
4. Press [+] to confirm the ESN. If the serial number is incorrect, press [/] to discard it, and repeat this step. After successful confirmation of the serial number, the system prompts for the zone number. The next available zone is displayed.
5. Enter a zone number (01-64) then press [+] to accept. The next available zone is preloaded.

NOTE: Only one device may be enrolled in each zone. If a zone already has a device enrolled, press [-] to overwrite the zone or [#] to enter another zone number.

6. After successful entry of the zone number, the system prompts for the zone type. (The recommended zone type is displayed). Press [*] to accept the zone type or enter:

<table>
<thead>
<tr>
<th>Device Type</th>
<th>Zone Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Door/Window Contact</td>
<td>[01] Delay 1</td>
</tr>
<tr>
<td>3 PIR or Glass Break</td>
<td>[05] Interior, Stay-Away</td>
</tr>
<tr>
<td>4 Smoke Detector</td>
<td>[88] Standard 24 Hr Fire (Wireless)</td>
</tr>
<tr>
<td>5 Pendant</td>
<td>[16] 24 Hour Panic</td>
</tr>
<tr>
<td>8 CO Detector</td>
<td>[81] 24 Hour CO Detection</td>
</tr>
</tbody>
</table>
Chapter 2 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.

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

2.1 Away Arming

The Ready light must be ON to arm the system. If the Ready light is OFF, ensure that 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 prompt the user to leave.

2.2 Stay Arming

The Ready light must be ON to arm the system. If the Ready light is OFF, ensure that 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.

2.3 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 prompt 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 flash (LED keypad) or the keypad displays ‘Alarm in Memory’ (LCD keypad). Press the [#] key to return the keypad to the Ready state.

2.4 [X] Commands

The following is a description of the available [X] commands:

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

[X][1] Bypass/Re-activate Stay/Away Zones

LED Keypad

Press [X][1] to enter the bypass mode. If the Code Required for the 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 [X][1] to enter the bypass mode. If the Code Required for the 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 [X] 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

Bypass Recall: Press [99]. The keypad recalls the last group of zones that were bypassed
Clear Bypass: Press [00]. The keypad clears the bypass on all zones
Save Bypass: Press [95]. The keypad saves manually bypassed zones
Recall Save: Press [91]. The keypad recalls bypassed zones that were saved

Hold-up Zones cannot be assigned to bypass groups.

Re-activate Stay/Away Zones: Press [X][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.
Chapter 2 User Commands

[2] Trouble Display
Refer to Appendix D – Troubleshooting Guide, for troubleshooting assistance and a detailed description of all trouble conditions.

When powering up the system for the first time, or in the event of a loss of power (including battery removal), a Loss of Clock trouble is displayed on the keypad. Press [8] on any keypad or [*] on any PK series keypad to access the Time and Date programming menu.

[3] Alarm Memory Display
The Memory light will be ON if an alarm occurred during the last armed period. Press [*][3]. The Memory light flashes and the keypad displays 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 emits 3 rapid beeps indicating the door chime feature is enabled or a steady 2-second tone indicating it is 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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>[01]-[39], [41]-[95]</td>
<td>General User Codes</td>
<td>Arm, disarm</td>
</tr>
<tr>
<td>[40]</td>
<td>Master Code</td>
<td>All functions</td>
</tr>
</tbody>
</table>

Programming User Codes

LED Keypad:
Press [*][5] followed by the Master Code. The Program light flashes. Programmed user codes are indicated by corresponding zone lights on the keypad. To add or change a user code, enter the 2-digit user code 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, the zone light corresponding to the user code will stop flashing. To add or change another user code, enter the 2-digit user code to be programmed or press [#] to exit.

LCD Keypad:
Press [*][5] followed by the Master Code. The keypad displays the first user (user 01) and includes 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 corresponding zone light on the keypad illuminates 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 corresponding zone light on the keypad illuminates 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 Escort 5580 module remotely
Light [5] For Future Use
Light [6] For Future Use
Light [7] The panel will squawk 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 the 24-hour clock system (e.g., 8:00 PM = 2000 hours).

2. **Auto-arm/Auto-disarm Enable/Disable:** The keypad emits 3 rapid beeps if the Auto-arm/Auto-disarm feature is enabled and a steady 2-second tone if it is 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 (HH:MM). Program the time using the 24-hour clock system (e.g., 8:00 PM = 2000 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 1 or 6 hours depending on programming (see Section [702] opt.[7]).

6. **User Initiated DLS:** The panel will attempt to call the DLS computer.

7. **For Future Use**

   If using LCD keypads, scroll to the desired option then press [●].

**Additional Alphanumeric Keypad Functions**

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

- **Event Buffer:** Used to view the 500-event panel log
- **Brightness Control:** Used to adjust the display backlighting level
- **Contrast Control:** Used to adjust the display contrast level
- **Buzzer Control:** Used to adjust the keypad buzzer tone

**[●][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 activates 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 arms in Stay mode and, after the exit delay expires, 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 a single time during the following 2-minute time period without changing the status of the system.

**2.5 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 numbers [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
- [5] Quick Exit
Chapter 3 Programming

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

3.1 Template Programming
Selecting [8][Installer Code] displays the current 5-digit template programming code. Refer to Appendix E - 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 indicated below:

- **Central Station Telephone Number, enter 32-Character Telephone number**
  Program the required Central Station phone number. Press [#] to complete your entry if less than 32 digits. This phone number is entered into programming section [301].

- **Central Station Account Code, enter 6-digit code**
  Program the required Central Station Account Code. Press [#] to complete your entry if less than 6 digits. This account code is entered into programming section [310].

- **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. This Partition account code is entered into programming section [311].

- **DLS Access Code, enter 6-digit code**
  Program the required DLS Access Code. Press [#] to complete your entry if less than 6 digits. This access code is entered into programming section [403].

- **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). These values are entered in sections [005] > [01], entries 1 and 3, respectively.

- **Installer Code**
  Enter the required 4 or 6-digit installer access code (dependent on section [701], option 5). This installer access code is entered in programming section [006]. After the installer code has been programmed, the keypad returns to the base installer programming menu.

3.2 DLS Programming

3.2.1 Local Programming
Follow the steps below in the sequence indicated to set up local programming using 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.**

**Connecting the DLS PC to the panel automatically initiates the connection.**

3.2.2 Remote Programming (via telephone line)
Refer to Section [401] on page 22 for details.

**After the panel information has uploaded, battery voltage can be viewed in the DLS session window.**

3.3 Advanced Keypad Programming
Fill in the Programming Worksheet with the required information before programming the system. This will reduce the time required to program and help eliminate errors.

To enter Installer Programming, press [8][Installer Code]. The Program light flashes (programmable LCD keypad displays 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:

- **Armed Light On**
  Panel waiting for 3-digit section number
  If in module programming, waiting for section # to be entered

- **Ready Light On**
  Panel waiting for data to be entered

- **Ready Light Flashing**
  Panel waiting for HEX data to be entered

**You cannot enter Installer Programming while the system or any partition is armed or in alarm.**
3.3.1 Programming Toggle Options

Enter the 3-digit programming section number:

- The Armed light turns OFF and
- The Ready light turns ON
- The keypad indicates the ON or OFF status of the toggle option according to the chart
- To toggle an option ON or OFF, press the corresponding number on the keypad. The display changes accordingly
- When all the toggle options are configured correctly, press the [#] key to exit
- The Ready light turns OFF and the Armed light turns ON

<table>
<thead>
<tr>
<th>Keypad Type</th>
<th>Option ON</th>
<th>Option OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED</td>
<td>Zone Light ON</td>
<td>Zone Light OFF</td>
</tr>
<tr>
<td>Fixed-Message LCD</td>
<td>Indicator # ON</td>
<td>Indicator # OFF</td>
</tr>
<tr>
<td>Programmable-Message LCD</td>
<td># Displayed</td>
<td>Dash [-] Displayed</td>
</tr>
</tbody>
</table>

3.3.2 Programming Decimal and Hexadecimal (HEX) Data

- Enter the 3-digit programming section number
- The Armed light turns OFF and the Ready light turns ON
- Enter the data written in the boxes

For sections that require multiple 2 or 3-digit numbers, the keypad beeps twice after each 2 or 3-digit entry then moves to the next item on the list. After the last digit in the section is entered, the keypad beeps rapidly 5 times then exits the programming section. The Ready light turns OFF and the Armed light turns ON.

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

The [#] key can be pressed at any time to exit a program section. All changes made up to that point are saved.

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

3.3.3 Exiting 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).

3.3.4 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 the following 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. The system is now waiting for the next 3-digit programming section number to be entered. Press the [#] key to exit the section.

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.
Chapter 4 Programming Descriptions

The following is a brief description of the features and options available in the Power PC1616/1832/1864 control panel. Please refer to the keypad installation sheet for function key programming.

Global Stay Arming
If enabled by the installer, 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
If enabled by the installer, 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
If enabled by the installer, 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.

[001] to [004] Zone Definitions

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[00] Null Zone: Zone not used</td>
<td></td>
</tr>
<tr>
<td>[01] Delay 1: When armed, provides entry delay when violated (follows Entry Delay 1)</td>
<td></td>
</tr>
<tr>
<td>[02] Delay 2: When armed, provides entry delay when violated (follows Entry Delay 2)</td>
<td></td>
</tr>
<tr>
<td>[03] Instant: When armed, instant alarm when violated</td>
<td></td>
</tr>
<tr>
<td>[04] Interior: When armed, instant alarm will sound first if the zone is violated; instant alarm will follow the entry delay if entry delay is active</td>
<td></td>
</tr>
<tr>
<td>[05] Interior Stay/Away: Similar to ‘Interior’ except that panel will auto-bypass the zone if Armed in the Stay mode</td>
<td></td>
</tr>
<tr>
<td>[06] Delay Stay/Away: Similar to ‘Delay 1’ except that panel will auto-bypass the zone if Armed in the Stay mode</td>
<td></td>
</tr>
<tr>
<td>[07] Delayed 24-Hour Fire (Hardwire): Instant audible alarm when violated, communication is delayed 30 seconds. If alarm is acknowledged during this time (by pressing a key), the alarm will be silenced 90 seconds and will repeat the cycle. If not, alarm will latch and communicate after a 30-second delay</td>
<td></td>
</tr>
<tr>
<td>[08] Standard 24-Hour Fire (Hardwire): Instant alarm and communication when violated</td>
<td></td>
</tr>
<tr>
<td>[09] 24-Hr Supervision (Hardwire): Instant alarm and communication when violated. Will not sound the bell or keypad buzzer</td>
<td></td>
</tr>
<tr>
<td>[10] 24-Hr Supervisory Buzzer: Instant alarm, panel will activate keypad buzzer instead of bell output</td>
<td></td>
</tr>
<tr>
<td>[12] 24-Hr Hold-up: Instant alarm when violated, silent alarm at default. Reporting code HA, HH</td>
<td></td>
</tr>
<tr>
<td>[14] 24-Hr Heat: Instant alarm when violated, audible alarm at default (also known as high-temp). Reporting code KA, KH</td>
<td></td>
</tr>
<tr>
<td>[16] 24-Hr Panic: Instant alarm when violated, audible alarm at default. Reporting code PA, PH</td>
<td></td>
</tr>
<tr>
<td>[18] 24-Hr Sprinkler: Instant alarm when violated, audible alarm at default. Reporting code SA, SH</td>
<td></td>
</tr>
<tr>
<td>[19] 24-hr Water: Instant alarm when violated, audible alarm at default (also known as high water level). Reporting code WA, WH</td>
<td></td>
</tr>
<tr>
<td>[20] 24-Hour Freeze: Instant alarm when violated, audible alarm at default (also known as low-temp). Reporting code ZA, ZH</td>
<td></td>
</tr>
<tr>
<td>[21] 24-Hr Latching Tamper: Instant alarm when violated, panel cannot be armed until Installer Programming is entered</td>
<td></td>
</tr>
<tr>
<td>[22] Momentary Keystwitch Arm: Arm or disarm the system when violated</td>
<td></td>
</tr>
<tr>
<td>[23] Maintained Keystwitch Arm: Arm system when violated, disarm system when restored</td>
<td></td>
</tr>
<tr>
<td>[24] For Future Use</td>
<td></td>
</tr>
<tr>
<td>[25] Interior/Delay: Zone will function as an Interior zone when armed in Away mode, and as a Delay zone when armed in Stay mode</td>
<td></td>
</tr>
<tr>
<td>[26] 24-Hr Non-Alarm: Zone will NOT create an alarm. Can be used with zone follower function for automation applications</td>
<td></td>
</tr>
<tr>
<td>[29] Auto-Verified Fire: When violated, system will reset all smoke detectors for 20 seconds, then wait 10 seconds for detectors to settle. If another fire alarm is detected within 60 seconds, the zone will go into alarm immediately</td>
<td></td>
</tr>
</tbody>
</table>
PowerSeries - PC1616/PC1832/PC1864

[30] **Fire Supervisory:** Instant alarm, system will activate keypad buzzer. A valid user code is required to silence keypad buzzer

[31] **Day Zone:** Instant alarm when system is armed, keypad buzzer (no alarm) when system is disarmed

[32] **Instant Stay/Away:** Similar to ‘Instant’ except panel will auto-bypass the zone if Armed in the Stay mode

[35] **24-Hr Bell/Buzzer:** Instant alarm when violated, system will activate bell output if armed, keypad buzzer if disarmed

[36] **24-Hr 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 Carbon Monoxide 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

[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] or [045] to [255] for SIA CP-01 panels (in seconds). Enter subsection [09] to program the Bell Cut-Off Time. Valid entries are from [001] to [255] (in minutes).

[006] **Installer Code**

The default Installer Code is [5555] or [55555] if 6-Digit Access Codes is enabled.

[007] **Master Code**

The default Master Code is [1234] or [123456] if 6-Digit Access Codes is enabled.

[008] **Maintenance Code**

The default Maintenance Code is [AAAA] (not programmed). This code can arm any partition, but cannot disarm unless the partition is in alarm.

[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:**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[00]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[01]</td>
<td>Fire and Burglary: Output will activate (steady for burglary, pulsing for fire) if an alarm occurs on the selected partition</td>
</tr>
<tr>
<td>[02]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[03]</td>
<td>Sensor Reset: 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</td>
</tr>
<tr>
<td>[04]</td>
<td>2-Wire Smoke: Configures PGM2 as 2-wire smoke detector input (PGM2 only)</td>
</tr>
<tr>
<td>[05]</td>
<td>Armed Status: Output will activate when all of the selected partitions are armed</td>
</tr>
<tr>
<td>[06]</td>
<td>Ready Status: Output will activate when all the selected partitions are in the Ready state (Ready light ON)</td>
</tr>
<tr>
<td>[07]</td>
<td>Keypad Buzzer Follow: 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-hr Supervisory Buzzer zone alarm</td>
</tr>
<tr>
<td>[08]</td>
<td>Courtesy Pulse: Output will activate during entry/exit delay if the selected partition is armed, and will remain active for an additional 2 minutes after the entry or exit delay expires</td>
</tr>
<tr>
<td>[09]</td>
<td>System Trouble: Output will activate when any selected trouble condition is present</td>
</tr>
<tr>
<td>[10]</td>
<td>Latched System Event (Strobe): Output will activate when a selected condition occurs on any selected partition. Note output can be programmed to follow timer</td>
</tr>
</tbody>
</table>
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].
[013] First System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] ON: zones require normally-closed loops. <strong>OFF</strong>: zones require End-Of-Line resistors, as determined by option [2].</td>
<td></td>
</tr>
<tr>
<td>[3] ON: keypads will display all trouble conditions while armed. <strong>OFF</strong>: keypads will only display fire trouble when armed. This option must be <strong>OFF</strong> if LCD5500 v2.x (or older) keypads are used on the system.</td>
<td></td>
</tr>
<tr>
<td>[4] ON: only a trouble will be displayed. <strong>OFF</strong>: keypads will display a trouble and a zone violation if a tamper or fault is detected.</td>
<td></td>
</tr>
<tr>
<td>[5] ON: auto-arming schedules (Program Sections [181]-[188]) will be available to the user in the [§][6] menu. <strong>OFF</strong>: auto-arming schedules will not be available to the user in the [§][6] menu.</td>
<td></td>
</tr>
<tr>
<td>[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. The bell will also sound if the delay zone is opened within 10 seconds of the exit delay timeout. <strong>OFF</strong>: the keypad will sound the entry delay through the keypad as per usual.</td>
<td></td>
</tr>
<tr>
<td>[7] ON: the system will NOT log additional alarms for a zone that has reached the swinger shutdown threshold. <strong>OFF</strong>: all zone alarms will be logged.</td>
<td></td>
</tr>
<tr>
<td>[8] ON: Temporal Three Fire Signal is used to sound fire alarms (½ second ON, ½ second OFF, ½ second ON, ½ second OFF ½ second ON, 1 ½ seconds OFF). <strong>OFF</strong>: the system will pulse the bell output (½ second ON, ½ second OFF).</td>
<td></td>
</tr>
</tbody>
</table>

[014] Second System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] ON: the system squawks the bell output once when a partition is armed, twice when disarmed. <strong>OFF</strong>: the bell output does not activate. Refer to section [017] option 8.</td>
<td></td>
</tr>
<tr>
<td>[2] ON: the system squawks the bell output every 10 seconds during the auto-arm pre-alert. <strong>OFF</strong>: the bell output does not activate.</td>
<td></td>
</tr>
<tr>
<td>[3] ON: the system will squawk the bell output once every second during Exit Delay, 3 squawks per second for the last 10s. <strong>OFF</strong>: the bell output will not activate.</td>
<td></td>
</tr>
<tr>
<td>[4] ON: the system will squawk the bell output once every second during Entry Delay, 3 squawks per second for the last 10s. <strong>OFF</strong>: the bell output will not activate.</td>
<td></td>
</tr>
<tr>
<td>[5] ON: the system squawks the bell output once every 10 seconds when a trouble condition is present. <strong>OFF</strong>: the bell output does not activate.</td>
<td></td>
</tr>
<tr>
<td>[6] ON: the system will beep the keypads once every second, and 3 times a second over the last 10 seconds, during an exit delay when the system is armed with a user code or armed in the Away mode. <strong>OFF</strong>: the keypads will not beep.</td>
<td></td>
</tr>
<tr>
<td>[7] ON: the exit delay will be terminated (reduced to 5 seconds) when a Delay 1 zone is violated and restored after the system is armed. <strong>OFF</strong>: the exit delay will count down as normal.</td>
<td></td>
</tr>
<tr>
<td>[8] ON: the bell output will not timeout if a fire alarm occurs. The user must turn OFF the bell by entering a valid user code. <strong>OFF</strong>: the bell output will timeout normally.</td>
<td></td>
</tr>
</tbody>
</table>

[015] Third System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] ON: the keypad fire emergency key will be enabled. <strong>OFF</strong>: the keypad fire emergency key will be disabled.</td>
<td></td>
</tr>
<tr>
<td>[2] ON: the keypad Panic emergency will be audible (bell output). <strong>OFF</strong>: the Panic emergency key will be silent.</td>
<td></td>
</tr>
<tr>
<td>[3] ON: the Quick Exit feature will be enabled. <strong>OFF</strong>: the Quick Exit feature will be disabled.</td>
<td></td>
</tr>
<tr>
<td>[4] ON: the Quick Arming [§][0] feature will be enabled. <strong>OFF</strong>: Quick Arming [§][0] feature will be disabled. <strong>If this feature is disabled, a valid user code must be entered after the Stay or Away function buttons are pressed.</strong></td>
<td></td>
</tr>
<tr>
<td>[5] ON: a valid user code must be entered after pressing [§][1] to access the Bypass feature. <strong>OFF</strong>: user code is not required.</td>
<td></td>
</tr>
<tr>
<td>[6] ON: the Master Code (user code 40) can only be changed in Installer Programming. <strong>OFF</strong>: the Master Code can be changed using the User Programming [§][5] command.</td>
<td></td>
</tr>
<tr>
<td>[7] ON: the system supervises the telephone line and displays a trouble if disconnected. <strong>OFF</strong>: the telephone line is not supervised.</td>
<td></td>
</tr>
<tr>
<td>[8] ON: the system activates the bell output if a telephone line trouble is detected while the system is armed. <strong>OFF</strong>: the system activates the keypad buzzer trouble tone.</td>
<td></td>
</tr>
</tbody>
</table>
### [016] Fourth System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>ON: the system supervises the AC input and displays a trouble if a failure is detected. <strong>OFF</strong>: AC Input is not supervised.</td>
</tr>
<tr>
<td>[2]</td>
<td>ON: the trouble light will flash when an AC trouble is detected. <strong>OFF</strong>: the trouble light turns on, does not flash.</td>
</tr>
<tr>
<td>[3]</td>
<td>ON: the keypad blanks (no indicator lights) if a key is not pressed for 30 seconds. <strong>OFF</strong>: the keypad does not blank.</td>
</tr>
<tr>
<td>[4]</td>
<td>ON: a valid user code must be entered to restore normal keypad operation after the blanking. <strong>OFF</strong>: pressing any key will return the keypad to normal operation.</td>
</tr>
<tr>
<td>[6]</td>
<td>ON: the system temporarily enables the Keypad Blanking feature if an AC failure is detected (to preserve the back-up battery). <strong>OFF</strong>: the system will operate as normal.</td>
</tr>
<tr>
<td>[7]</td>
<td>ON: the keypad turns ON the Bypass light if zones are bypassed while the system is armed. <strong>OFF</strong>: the Bypass light turns OFF when the system is armed.</td>
</tr>
<tr>
<td>[8]</td>
<td>ON: the system supervises keypad tampers. <strong>OFF</strong>: the system does not supervise keypad tampers.</td>
</tr>
</tbody>
</table>

### [017] Fifth System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>ON: the system does NOT associate wireless keys to user codes. <strong>OFF</strong>: 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.</td>
</tr>
<tr>
<td>[2]</td>
<td>ON: the system logs an RF Jam trouble condition if the condition is present for 5 minutes. <strong>OFF</strong>: the system logs the trouble condition after 30 seconds.</td>
</tr>
<tr>
<td>[3]</td>
<td>ON: the keypads beep if an RF Jam trouble is detected. <strong>OFF</strong>: the trouble is not announced via the keypad buzzer.</td>
</tr>
<tr>
<td>[4]</td>
<td>ON: 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. <strong>OFF</strong>: two alarms from the same zone is not a valid Police Code or Cross Zone event.</td>
</tr>
<tr>
<td>[5]</td>
<td>ON: the system logs and communicates a Late-To-Close event when the auto-arm time comes, but the function has been disabled (not if auto-arming was caused by the No-Activity Arming feature). <strong>OFF</strong>: the system does not transmit or log a Late-To-Close event.</td>
</tr>
<tr>
<td>[6]</td>
<td>ON: enables the Daylight Savings automatic clock adjustment feature. <strong>OFF</strong>: the system does not automatically adjust the clock for Daylight Savings.</td>
</tr>
<tr>
<td>[7]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[8]</td>
<td>ON: the system only squawks the bell output when the system is armed in the Away mode. <strong>OFF</strong>: the system squawks the siren when the system is armed in any mode. (See Section [14], Option [1]).</td>
</tr>
</tbody>
</table>

### [018] Sixth System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>ON: the system only transmits a Test Transmission reporting code if no other event was transmitted to the central station during the programmed time. <strong>OFF</strong>: the system always transmits a Test Transmission reporting code as programmed.</td>
</tr>
<tr>
<td>[2]-[4]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[5]</td>
<td>ON: the keypad buzzer follows the bell output for all alarms. <strong>OFF</strong>: the system only activates the bell output for all alarms.</td>
</tr>
<tr>
<td>[6]</td>
<td>ON: 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. <strong>OFF</strong>: 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.</td>
</tr>
<tr>
<td>[7]</td>
<td>ON: the system restarts the Exit Delay (one time) if a Delay zone is violated and restored during the exit delay time. <strong>OFF</strong>: the Exit Delay does not restart.</td>
</tr>
<tr>
<td>[8]</td>
<td>ON: the system activates the trouble beeps when an AC trouble is detected. <strong>OFF</strong>: the system does not announce AC troubles using the keypad buzzer.</td>
</tr>
</tbody>
</table>
[019] Seventh System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[2]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[3]</td>
<td>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</td>
</tr>
<tr>
<td>[4]-[5]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[6]</td>
<td>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</td>
</tr>
<tr>
<td>[7]</td>
<td>ON: all user access codes can enter the User Functions menu. OFF: only the Master Code can enter the User Functions menu.</td>
</tr>
<tr>
<td>[8]</td>
<td>For Future Use</td>
</tr>
</tbody>
</table>

[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].

[021] Eighth System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>ON: access codes will not be accepted by the system during entry delay. OFF: an access code can be used to disarm the system during entry delay</td>
</tr>
<tr>
<td>[2]-[5]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[6]</td>
<td>ON: key-switches and wireless keys can only disarm the system during an entry delay. OFF: key-switches and wireless keys can disarm the system regardless if entry delay is active or not.</td>
</tr>
<tr>
<td>[7]-[8]</td>
<td>For Future Use</td>
</tr>
</tbody>
</table>

[022] Ninth System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>ON: an access code is required for access to the [✱][1], [✱][2], [✱][3] menus. OFF: no access code is required for [✱][1], [✱][2], [✱][3] menu access.</td>
</tr>
<tr>
<td>[2]-[3]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[4]</td>
<td>ON: only the Master code can be used to bypass a hold up zone. OFF: any valid access code can bypass a hold up zone.</td>
</tr>
<tr>
<td>[5]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[6]</td>
<td>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”, which is only viewable in [✱][2] (Trouble Menu). 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.</td>
</tr>
<tr>
<td>[7]</td>
<td>Future Use</td>
</tr>
<tr>
<td>[8]</td>
<td>ON: when the system is armed in Stay mode, during the Exit delay, the system will sound one beep every 3 seconds. OFF: when the system is armed in Stay mode, the system will be silent during the Exit delay.</td>
</tr>
</tbody>
</table>

[023] Tenth System Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>ON: the keypad [F] emergency key will only beep three times to acknowledge that the button has been pressed. The system will not activate the bell output. OFF: the system will activate the bell output and beep the keypad.</td>
</tr>
<tr>
<td>[2]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[3]</td>
<td>ON: 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. OFF: the system will always report the Test Transmission reporting code at the programmed time.</td>
</tr>
<tr>
<td>[4]</td>
<td>ON: the system changes the Test Transmission Reporting Cycle Time from Days to Hours. OFF: the Test Transmission Reporting Cycle Time is in Days.</td>
</tr>
</tbody>
</table>
Chapter 4 Programming Descriptions

[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.

[101] to [164] Zone Attributes
These sections are used to customize the operation of the zones. There are 9 toggle options in each section:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>ON: alarms are audible (bell output). OFF: alarms are silent.</td>
</tr>
<tr>
<td>[3]</td>
<td>ON: a zone violation or restoral will activate Chime. OFF: chime is not activated.</td>
</tr>
<tr>
<td>[4]</td>
<td>ON: the user can manually bypass the zone using the [*][1] command. OFF: the zone cannot be manually bypassed.</td>
</tr>
<tr>
<td>[5]</td>
<td>ON: the partition can be armed even if the zone is violated (the zone will not affect the Ready status). OFF: the zone must be secure before arming.</td>
</tr>
<tr>
<td>[6]</td>
<td>ON: the system shuts down alarm reporting after the programmed number of alarms have occurred. OFF: the panel will always report the event if an alarm occurs.</td>
</tr>
<tr>
<td>[7]</td>
<td>ON: the system delays reporting the event for the time programmed for the Transmission Delay time. OFF: the panel immediately transmits the reporting event when an alarm is detected.</td>
</tr>
<tr>
<td>[8]</td>
<td>ON: the zone is a wireless or addressable device. OFF: the zone is a hardwire zone (main panel, zone expander or keypad zone).</td>
</tr>
<tr>
<td>[9]</td>
<td>ON: the zone has the Cross Zone feature enabled. OFF: the zone functions normally.</td>
</tr>
<tr>
<td>[10]-[13]</td>
<td>For Future Use</td>
</tr>
<tr>
<td>[14]</td>
<td>ON: the zone requires a normally-closed loop. OFF: the zone will follow the EOL configuration in [013].</td>
</tr>
<tr>
<td>[15]</td>
<td>ON: the zone requires a single End-of-Line resistor . OFF: the zone will follow the EOL configuration in [013].</td>
</tr>
<tr>
<td>[16]</td>
<td>ON: the zone requires double End-of-Line resistors. OFF: the zone will follow the EOL configuration in [013].</td>
</tr>
</tbody>
</table>

Options [14], [15], [16] apply to first 8 zones only. If more than one of these options are enabled then lowest numbered option is enabled. E.g., If Option [14] and option [15] are enabled then the zones are configured as normally closed loops.

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

When Zone Types ([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 [101] to [164] and ensure that all options are programmed correctly.

Ready light ON: Program attributes [1-8] (press [1]-[8] to turn option ON or OFF) 
Ready light and Armed light ON: Program attributes [9-16] (press [1]-[8] to turn option ON or OFF) 

[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]. For UL Listed installations, 5 attempts is required.
[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.

[167] TL/GS Module 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 [060] to [255] seconds.

Do not program this section with a value less than 60.

[168] Daylight Saving Time (Move Clock Ahead)

This option is 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, Day, 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 if the number of weeks in the month is 4 or 5.

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.

[169] Standard Time (Set Clock Back)

This option is 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, Day, 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 if the number of weeks in the month is 4 or 5.

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 Saving Time.

[170] PGM Output Timer

Program the amount of time, in seconds, that the PGM Output Timer will be active. Valid entries are [001] to [255].

[171] Tamper PGM Output Timer

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

[175] Auto-arm Postpone Timer

Program the amount of time, in minutes, that the system will postpone automatic arming. When the programmed time has expired, 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].

[176] Cross Zone/Police Code Timer

Program the amount of 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, and if any two zones go into alarm during any armed-to-armed period, the panel will generate a Police Code event. Valid entries are [001] to [255].

[181] to [188] Auto-arm Schedules

Program the amount of time to auto-arm ([181] for partition 1, [182] for partition 2, etc.) for each day of the week. Each option has seven, 4-digit entries: two digits for the hour, two digits for the minute, Sunday through Saturday. Program using the twenty-four-hour system (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.

[190] No Activity Arming Pre-Alert Duration

Program the amount of time, in minutes, for the No Activity Arming Pre-Alert Duration. The keypads will emit a steady tone, warning the user that the system is about to arm. The user can either violate a zone or press any key to abort the arming sequence. Valid entries are [000] to [255].
[191] to [198] No Activity Arm Timer
Program the amount of time, in minutes, for the No Activity Arm Timer ([191] for Partition 1, [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]-[255].

[199] Auto-Arming Pre-alert Timer
Program the amount of 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 [001] to [255].

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

[202] to [265] Partition Zone Assignments
These options are used to assign zones to specific partitions ([202] to [209] for Partition 1, [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 be armed only if all the partitions the zone is assigned to are armed. Default = Zones 1-8 enabled on Partition 1.

[301] First Telephone Numbers
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.: [D1223334444F]
- 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

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

[302] Second Telephone Number
See [301] First Telephone Number for details.

[303] Third Telephone Number
See [301] First Telephone Number for details.

[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].
[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]. When using the SIA format, this account number will be used for all reporting events. When 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.

[311] to [318] Partition Account Numbers

Program the Partition Account Number for each active partition ([311] for partition 1, [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.

[320] to [349] Reporting Codes

Program the reporting code for all events to be transmitted. For a 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.

[350] Communicator Format

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

[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.

[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.

[378] Communicator (Transmission) Delay:

Time, in seconds, the panel will delay reporting an alarm event. Valid entries: [000] to [255].

[379] AC Failure Communication Delay:

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

[380] TLM Trouble Delay:

Time, in 3-second intervals, before the system will consider the phone line disconnected. Valid entries: [003] 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].
- **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: [000] 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. They keypad will beep rapidly to indicate that the Communication Cancel reporting event has been communicated successfully. Valid entries: [001] to [255]. Entering [000] will disable this window.

[378] Test Transmission Time

Program the time the system will report a Test Transmission reporting event. Program 4 digits – [HH][MM] using the twenty-four-hour system. For a test transmission at 11:00 pm, program data [23][00]). Valid entries are [00][00] to [23][59]. Entering [99][99] will disable the test transmission.

[379] Periodic DLS Time of Day

Programs the time the system will auto-call DLS. Program 4 digits – [HH][MM] using the twenty-four-hour system. 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.
[380] First Communicator Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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 DTMF (touchtone) dialing. |
| 4      | ON: the panel will switch from DTMF 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. |

[381] Second Communicator Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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      | ON: the system will follow ULC Communication Priority.  
OFF: the system will follow standard communications priority. |

[382] Third Communicator Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>For Future Use</td>
</tr>
<tr>
<td>2</td>
<td>ON: the system will transmit all alarms during Walk Test. OFF: the system will not report alarm events during Walk Test.</td>
</tr>
</tbody>
</table>
| 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 TL/GS Module. OFF: disables TL/GS Module. |
| 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 |
[383] **Fourth Communicator Option Code**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ON: events programmed to communicate to phone #1 will use the Partition Account Number in [311]. Events Programmed to communicate to phone #2 will use the Partition Account Number in [312].&lt;br&gt;OFF: each event will use its respective partition account code.</td>
</tr>
<tr>
<td>2-8</td>
<td>For Future Use</td>
</tr>
</tbody>
</table>

[389] **TL/GS Module Fault Check Timer**
Program the time, in 3-second intervals, before the system considers the TL/GS Module disconnected. Valid entries: [002] to [255] (e.g., 010 x 3 seconds = 30 seconds).

[401] **First Downloading Option Code**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ON: the system answers incoming calls for downloading (either Programmed Number of Rings or Double Call).&lt;br&gt;OFF: the system does not answer incoming calls using the double call routine for downloading.</td>
</tr>
<tr>
<td><strong>These settings do not affect the 6-hour DLS downloading window on power-up.</strong></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>ON: the user can enable downloading for the DLS Window using the [**][6] command.&lt;br&gt;OFF: the user cannot enable downloading.</td>
</tr>
<tr>
<td>3</td>
<td>ON: the system will hang up after a successful DLS connection and call the computer back using the DLS Phone Number ([402]).&lt;br&gt;OFF: the system stays connected to the computer.</td>
</tr>
<tr>
<td>4</td>
<td>ON: the user can initiate a downloading session using the [**][6] command.&lt;br&gt;OFF: the user cannot initiate a downloading session.</td>
</tr>
<tr>
<td>5</td>
<td>ON: the system attempts to call the downloading computer after transmitting an Event Buffer 75% Full event to the central station.&lt;br&gt;OFF: the system does NOT call the downloading computer after transmitting this event.</td>
</tr>
<tr>
<td>6</td>
<td>ON: panel communicates with DLS at 300 Baud. OFF: panel communicates with DLS at 110 Baud.</td>
</tr>
<tr>
<td>7-8</td>
<td>For Future Use</td>
</tr>
</tbody>
</table>

[402] **Downloading Computer Telephone 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:

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

[403] **Download 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 matches the Downloading Access Code programmed in the computer file.

[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).

[405] **Double-Call Timer**
Program the maximum amount of time, in seconds, between calls when connecting to a panel using the double call feature. Valid entries are [001] to [255].

[406] **Number of Rings to Answer On**
Program the number of consecutive rings that panel must detect to answer for downloading. Valid entries are [000] to [010].

[499] **PC-Link Communications**
Enter the following command to initiate downloading via PC-Link: [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. The session will NOT be automatically initiated if the system is in installer mode.
Chapter 4 Programming Descriptions

[501] to [514] Programmable Output Attributes

These options are used to customize the operation of the PGM outputs ([501] for PGM 1, [502] for PGM 2 etc.). The available options depend on which PGM output type has been programmed.

When the PGM Output Options ([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], [30], [33], [34]

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[3] ON</td>
<td>the PGM output will operate normally (switch to ground when activated).</td>
</tr>
<tr>
<td></td>
<td>OFF: the PGM output will be grounded and switch to open collector (open circuit) when activated.</td>
</tr>
</tbody>
</table>

PGM Output Option [19] to [22]

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[4] ON</td>
<td>the PGM output will activate for the duration of the PGM Output Timer when the ([\star])[7][x] command is performed.</td>
</tr>
<tr>
<td></td>
<td>OFF: the PGM output will latch until the ([\star])[7][x] command is performed again.</td>
</tr>
<tr>
<td>[5] ON</td>
<td>a valid user code must be entered after the ([\star])[7][x] command. OFF: a user code is not required.</td>
</tr>
</tbody>
</table>

PGM Output Option [09]

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] ON</td>
<td>PGM output is activated if a Service Required trouble condition is present.</td>
</tr>
<tr>
<td>[2] ON</td>
<td>PGM output is activated if an AC trouble condition is present.</td>
</tr>
<tr>
<td>[3] ON</td>
<td>PGM output is activated if a Telephone Line trouble condition is present.</td>
</tr>
<tr>
<td>[4] ON</td>
<td>PGM output is activated if a Failure to Communicate trouble condition is present.</td>
</tr>
<tr>
<td>[5] ON</td>
<td>PGM output is activated if a Zone Fault condition is present.</td>
</tr>
<tr>
<td>[6] ON</td>
<td>PGM output is activated if a Zone Tamper condition is present.</td>
</tr>
<tr>
<td>[7] ON</td>
<td>PGM output is activated if a Wireless Low Battery trouble condition is present.</td>
</tr>
<tr>
<td>[8] ON</td>
<td>PGM output is activated if a Loss of Clock trouble condition is present.</td>
</tr>
</tbody>
</table>

PGM Output Option [10]

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] ON</td>
<td>PGM output is activated if a Burglary Alarm occurs.</td>
</tr>
<tr>
<td>[2] ON</td>
<td>PGM output is activated if a Fire Alarm occurs.</td>
</tr>
<tr>
<td>[3] ON</td>
<td>PGM output is activated if a Panic Alarm occurs.</td>
</tr>
<tr>
<td>[4] ON</td>
<td>PGM output is activated if a Medical Alarm occurs.</td>
</tr>
<tr>
<td>[5] ON</td>
<td>PGM output is activated if a Supervisory Alarm occurs.</td>
</tr>
<tr>
<td>[6] ON</td>
<td>PGM output is activated if a Priority Alarm occurs.</td>
</tr>
<tr>
<td>[7] ON</td>
<td>PGM output is activated if a 24-Hour Hold-Up Alarm occurs.</td>
</tr>
<tr>
<td>[8] ON</td>
<td>the PGM output is activated for the time programmed for the PGM Output Timer. OFF: the PGM output will latch until a valid user code is entered.</td>
</tr>
</tbody>
</table>

PGM Output Option [31]

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] ON</td>
<td>PGM output is activated if a Fire Alarm occurs.</td>
</tr>
<tr>
<td>[2] ON</td>
<td>PGM output is activated if a Panic Alarm occurs.</td>
</tr>
<tr>
<td>[3] ON</td>
<td>PGM output is activated if a Burglary Alarm occurs.</td>
</tr>
<tr>
<td>[4] ON</td>
<td>PGM output is activated if an Opening/Closing occurs.</td>
</tr>
<tr>
<td>[5] ON</td>
<td>PGM output is activated if a zone is automatically bypassed.</td>
</tr>
<tr>
<td>[6] ON</td>
<td>PGM output is activated if a Medical Alarm occurs.</td>
</tr>
<tr>
<td>[7] ON</td>
<td>PGM output is activated if both a confirmed alarm and a Police Code occur.</td>
</tr>
<tr>
<td>[8] ON</td>
<td>the PGM output is active when the selected condition is true. OFF: the PGM output will latch until a valid user code is entered.</td>
</tr>
</tbody>
</table>

PGM Output Option [32]

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1-7] For Future Use</td>
<td></td>
</tr>
<tr>
<td>[8] ON</td>
<td>the PGM is activated for the duration programmed in PGM Output Timer.</td>
</tr>
<tr>
<td></td>
<td>OFF: the PGM is activated when an Opening After Alarm occurs, and will be deactivated when a valid access code is entered.</td>
</tr>
</tbody>
</table>
PGM Output Option [29] and [35]-[41]

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>For Future Use</td>
</tr>
<tr>
<td>3</td>
<td>ON: the PGM will switch to ground when the event occurs. OFF: the PGM will switch to open when the event occurs.</td>
</tr>
<tr>
<td>4-7</td>
<td>For Future Use</td>
</tr>
<tr>
<td>8</td>
<td>ON: AND logic is selected, all zones that are enabled must be violated before the PGM will activate. OFF: OR logic is selected, only one violated zone is required to activate the PGM. All zones must be restored to turn it OFF.</td>
</tr>
</tbody>
</table>

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

[551] to [564] PGM Partition Assignment

These sections are used to customize the operation of the PGM outputs ([551] for PGM 1, [552] for PGM 2, etc.). Turn on the desired 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. Zone Follower PGM types 29 and 35-41 are used to assign specific zones to the PGM.

Each Command Output PGM type can be assigned to one partition only.

[601] to [608] Additional Reporting Codes

Program the reporting code for all events to be transmitted. For information 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.

[681] to [688] Auto-Disarm Schedules

Program the time to auto-disarm ([681] for Partition 1, [682] 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 twenty-four-hour system (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

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

Program the dates to be used for the Auto-Disarm holiday schedule ([691] for Partition 1, [692] for Partition 2, etc.) Each section has 14, 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 the Auto-Disarm holiday schedule.

[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].

[701] First International Option Code

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ON: configures the system for 50Hz AC. OFF: configures the system for 60Hz AC.</td>
</tr>
<tr>
<td>2</td>
<td>ON: the system uses the internal crystal for the internal panel clock. OFF: the system uses the AC frequency for the internal panel clock.</td>
</tr>
<tr>
<td>3</td>
<td>ON: the system will inhibit arming if a Low Battery or AC trouble condition is present. OFF: arming will not be inhibited.</td>
</tr>
<tr>
<td>4</td>
<td>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.</td>
</tr>
<tr>
<td>5</td>
<td>ON: all access codes are 6-digits long. OFF: all access codes are 4-digits long.</td>
</tr>
<tr>
<td>6</td>
<td>ON: the system will hang up if a busy tone is detected. This attempt is not counted towards the Maximum Dialing Attempts. OFF: the panel will not detect busy tones.</td>
</tr>
<tr>
<td>7</td>
<td>ON: the system will charge the battery at approximately 700mA. OFF: the system will charge the battery at 400mA.</td>
</tr>
<tr>
<td>8</td>
<td>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.</td>
</tr>
</tbody>
</table>
[702] Second International Option Code

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

[703] Delay Between Dialing Attempts

Program the amount of time (in seconds) the panel will wait between dialing attempts to transmit a reporting event to the central station. Valid entries are [001] to [255].

[800]-[851] Module Programming

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

- [801]: PC5400 Printer Module Programming
- [802]: PC59xx VOX Module Programming
- [803]: Alternate Communicator Programming
- [804]: Wireless Programming
- [805]: PC5100 Addressable Programming
- [851]: TL/GS Module Programming

Special Installer Instructions

[898] Wireless Enrollment

Refer to Section 1.12 RFK5500 and RFK5564 Easy Wireless Enrollment Procedure for details.

[899] Template Programming

Selecting [*][8] [Installer Code] [899] displays the current 5-digit template programming code. Refer to section 3.1 Template Programming for details. Refer to Appendix E - Template Programming for a detailed description of available templates and corresponding 5-digit codes.

This feature requires a PK55xx or RFK55xx series keypad, v.1.1 or higher.

[900] Panel Version Displayed

Only available with LCD5500 or PK5500 keypads. The system will display the version of the control panel (e.g., [0460] indicates panel version 4.60).

[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 [901] again. The system automatically terminates the test if there is no zone activity for 15 minutes.

[902] Module Supervision Reset

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

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

[904] Wireless Placement Test

Enter [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.

[989] Default Master Code

Enter [989][Installer Code] to default the Master Code to the factory defaults.

[990] Installer Lockout Enable

Enter [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, indicating that the feature is ON.

[991] Installer Lockout Disable

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

[993] to [999]: Factory Default Module/Panel

The following options can be used to restore a module or the main control panel to its factory default settings. Enter the appropriate option, followed by the Installer Code, followed by the option number (e.g., [993][Installer Code][993]).

[993]: Factory Default Alternate Communicator
[995]: Factory Default Escort 5580 Module
[996]: Factory Default Wireless Receiver
[997]: Factory Default PC5400 Module
[998]: Factory Default PC59xx Module
[999]: Factory Default Main Control Panel

Hardware Reset (Default) Main Control Panel

Perform the following to restore the main control panel to its default settings:

1. Power down the system.
2. First removing all wires between Zone 1 and PGM1 on the control panel, connect a short between them.
3. Power up the control panel (AC power only) for 10 seconds.
4. Power down the control panel, remove the short between Zone 1 and PGM1.
5. Power up the control panel.
Chapter 4 Programming Descriptions

[001]-[064] Label Programming (Zone 1-64) (applies to PK5500/RFK5500/RFK5564 only)

Zone and other labels in these sections can be customized.
Default labels are in English and do not change when an alternate language is selected.
Labels can be programmed locally or downloaded/uploaded using DLS and Connect 24 interactive software.

To program a zone label:
1. Enter the section number of the label to be programmed. e.g., [*][8][Installer Code][*][001].
2. Scroll to the desired character’s location using the << Keys.
3. Enter the number of the corresponding character group until the desired character is displayed.
   Example:
   Press the “2” key 3 times to enter the letter “F.”
   Press the “2” key 4 times to enter the number “2.”
4. Press [*] to access the “Select Options” menu.
   Scroll to “Save” then press [*] to save the label.

Press To Enter/Display

<table>
<thead>
<tr>
<th></th>
<th>Display Left (Previous character position)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[&gt;]</td>
<td>Display Right (Next character position)</td>
</tr>
<tr>
<td>[?]</td>
<td>SELECT</td>
</tr>
<tr>
<td>[#]</td>
<td>ESCAPE</td>
</tr>
<tr>
<td>[0]</td>
<td>SPACE</td>
</tr>
<tr>
<td>[1]</td>
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Label Library

The Label Library is a database of words commonly used when programming labels. Individual words can be combined as needed. e.g., Front + Door. Each line of the display supports a maximum of 14 characters. If a word will not fit on a line, scroll right until the cursor appears at the first character of the second line then add the word.

To program a custom label using the Label Library:
1. Enter keypad programming and select the label to change. e.g., [*][8][Installer Code][*][001] (to program the label for zone 01).
2. Press [*] to open the “Select Options” menu.
3. Press [*] again to select the “Words” option.
4. Enter the 3-digit number corresponding to a word (see Words table below) or use the scroll keys [<][>] to view words in the library.
5. Press [*] to select the word.
6. To add another word, repeat the above procedure from step 2.
7. To add a space, press the right scroll key [>].
8. To clear characters, select “Clear to End” or “Clear Display” from the “Select Options” menu.
9. To save the current label, press [*] to access the “Select Options” menu, scroll left [<] to “Save” then press [*] again.
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# Chapter 5 Programming Worksheets

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</tr>
<tr>
<td>[338] Miscellaneous Tamper Reporting Codes</td>
<td>43</td>
</tr>
<tr>
<td>[339]-[340] Closing (Arming) Reporting Codes, Access Codes 1-32</td>
<td>43</td>
</tr>
<tr>
<td>[341] Miscellaneous Closing (Arming) Reporting Codes</td>
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</tr>
<tr>
<td>[342]-[343] Opening (Disarming) Reporting Codes, Access Codes 1-32</td>
<td>43</td>
</tr>
<tr>
<td>[344] Miscellaneous Opening (Disarming) Reporting Codes</td>
<td>43</td>
</tr>
<tr>
<td>[345] Maintenance Alarm Reporting Codes</td>
<td>43</td>
</tr>
<tr>
<td>[346] Maintenance Restoral Reporting Codes</td>
<td>43</td>
</tr>
<tr>
<td>[347] Miscellaneous Maintenance Reporting Codes</td>
<td>44</td>
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<table>
<thead>
<tr>
<th>Programming Option</th>
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<tbody>
<tr>
<td>[348] Test Transmission Reporting Codes</td>
<td>44</td>
</tr>
<tr>
<td>[349] PC5700 Maintenance Reporting Codes</td>
<td>44</td>
</tr>
<tr>
<td>[350] Communicator Format Options</td>
<td>44</td>
</tr>
<tr>
<td>[351]-[358] Alarm/Restore Communicator Call Directions</td>
<td>44</td>
</tr>
<tr>
<td>[359]-[366] Tamper/Restore Communicator Call Directions</td>
<td>45</td>
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<tr>
<td>[367]-[374] Opening/Closing Communicator Call Directions</td>
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</tr>
<tr>
<td>[375] System Maintenance Communicator Call Directions</td>
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</tr>
<tr>
<td>[376] System Test Transmissions Communicator Call Directions</td>
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<tr>
<td>[377] Communication Variables</td>
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</tr>
<tr>
<td>[378] Test Transmission Time of Day</td>
<td>45</td>
</tr>
<tr>
<td>[379] Periodic DLS Time of Day</td>
<td>45</td>
</tr>
<tr>
<td>[380] 1st Communicator Options</td>
<td>46</td>
</tr>
<tr>
<td>[381] 2nd Communicator Options</td>
<td>46</td>
</tr>
<tr>
<td>[382] 3rd Communicator Options</td>
<td>46</td>
</tr>
<tr>
<td>[383] 4th Communicator Options</td>
<td>46</td>
</tr>
<tr>
<td>[389] TL/GS Module Fault Check Timer</td>
<td>46</td>
</tr>
<tr>
<td>[401] DLS Downloading Option Codes</td>
<td>47</td>
</tr>
<tr>
<td>[402] DLS Downloading Telephone Number (32 Digits)</td>
<td>47</td>
</tr>
<tr>
<td>[403]-[404] DLS Downloading Access Code / Panel ID Code</td>
<td>47</td>
</tr>
<tr>
<td>[405] Answering Machine Double Call Timer</td>
<td>47</td>
</tr>
<tr>
<td>[406] Number of Rings to Answer On</td>
<td>47</td>
</tr>
<tr>
<td>[409] Initiate PC-LINK Downloading</td>
<td>47</td>
</tr>
<tr>
<td>[501]-[502] PGM 1&amp;2 Output Attributes (Main Panel)</td>
<td>48</td>
</tr>
<tr>
<td>[503]-[504] PGM 3&amp;4 Output Attributes (Main Panel / PC5208)</td>
<td>48</td>
</tr>
<tr>
<td>[505]-[510] PGM 5-10 Output Attributes (5208)</td>
<td>48</td>
</tr>
<tr>
<td>[511]-[514] PGM 11-14 Output Attributes (5204)</td>
<td>48</td>
</tr>
<tr>
<td>[551]-[552] PGM 1&amp;2 Output Partition Assignment (Main Panel)</td>
<td>49</td>
</tr>
<tr>
<td>[553]-[554] PGM 3&amp;4 Output Partition Assignment (Main Panel/PC5208)</td>
<td>49</td>
</tr>
<tr>
<td>[555]-[560] PGM 5-10 Output Partition Assignment (5208)</td>
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</tr>
<tr>
<td>[561]-[564] PGM 11-14 Output Partition Assignment (5204)</td>
<td>49</td>
</tr>
<tr>
<td>[601]-[604] Closing (Arming) Reporting Codes, Access Codes 33-95</td>
<td>49</td>
</tr>
<tr>
<td>[605]-[608] Opening (Disarming) Reporting Codes, Access Codes 33-95</td>
<td>50</td>
</tr>
<tr>
<td>[609] Auto-Arming Holiday Schedule</td>
<td>50</td>
</tr>
<tr>
<td>[609]-[608] Automatic Disarming Schedule</td>
<td>50</td>
</tr>
<tr>
<td>[700] Automatic Clock Adjust</td>
<td>51</td>
</tr>
<tr>
<td>[701] 1st International Options</td>
<td>51</td>
</tr>
<tr>
<td>[702] 2nd International Options</td>
<td>51</td>
</tr>
<tr>
<td>[703] Delay between Dialing Attempts</td>
<td>51</td>
</tr>
<tr>
<td>[801] PC5400 Printer Module Programming</td>
<td>52</td>
</tr>
<tr>
<td>[802] PC59xx VOX Programming</td>
<td>52</td>
</tr>
<tr>
<td>[804] Wireless Expansion Programming</td>
<td>52</td>
</tr>
<tr>
<td>[805] PC5100 Programming</td>
<td>52</td>
</tr>
<tr>
<td>[851] TL/GS Programming</td>
<td>52</td>
</tr>
<tr>
<td>[898] Wireless Enrollment</td>
<td>52</td>
</tr>
<tr>
<td>[899] Template Programming</td>
<td>52</td>
</tr>
<tr>
<td>[900] Panel Version Displayed</td>
<td>52</td>
</tr>
<tr>
<td>[901] Installer Walk Test Mode Enable/Disable</td>
<td>52</td>
</tr>
<tr>
<td>[902] Module Supervision Reset</td>
<td>52</td>
</tr>
<tr>
<td>[903] Module Supervision Field</td>
<td>52</td>
</tr>
<tr>
<td>[904] Wireless Module Placement Test</td>
<td>52</td>
</tr>
<tr>
<td>[989] Default Master Code</td>
<td>52</td>
</tr>
<tr>
<td>[990] Installer Lockout Enable</td>
<td>52</td>
</tr>
<tr>
<td>[991] Installer Lockout Disable</td>
<td>52</td>
</tr>
<tr>
<td>[993] Restore Alternate Communicator to Default Programming</td>
<td>52</td>
</tr>
<tr>
<td>[994] Restore Escort5580 to Default Programming</td>
<td>52</td>
</tr>
<tr>
<td>[996] Restore RF5132 to Default Programming</td>
<td>52</td>
</tr>
<tr>
<td>[997] Restore PC5400 to Default Programming</td>
<td>52</td>
</tr>
<tr>
<td>[998] Restore PC59xx to Default Programming</td>
<td>52</td>
</tr>
<tr>
<td>[999] Restore Control Panel to Default Programming</td>
<td>52</td>
</tr>
</tbody>
</table>
Programming Worksheets

Shaded programming sections indicate minimum programming requirements.

The defaults for SIA FAR CP-01 are indicated in gray text.

Keypad Partition /Slot and Function Key Programming

[000] Keypad Enrollment

This must be done at each keypad requiring programming.

[0] Slot address (For the partition, 0-8; for the slot, 1-8). For example, to enroll a keypad in partition 3, 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 (enter these values below in the table immediately following):

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Not used</td>
</tr>
<tr>
<td>01</td>
<td>Select Partition 1</td>
</tr>
<tr>
<td>02</td>
<td>Select Partition 2</td>
</tr>
<tr>
<td>03</td>
<td>Stay Arm</td>
</tr>
<tr>
<td>04</td>
<td>Away Arm</td>
</tr>
<tr>
<td>05</td>
<td>[9] No-Entry Arm</td>
</tr>
<tr>
<td>06</td>
<td>[4] Chime On / Off</td>
</tr>
<tr>
<td>07</td>
<td>[4] System Test</td>
</tr>
<tr>
<td>08</td>
<td>[1] Bypass Mode</td>
</tr>
<tr>
<td>09</td>
<td>[2] Trouble Display</td>
</tr>
<tr>
<td>10</td>
<td>[3] Alarm Memory</td>
</tr>
<tr>
<td>12</td>
<td>[8] User Functions</td>
</tr>
<tr>
<td>13</td>
<td>Command Output #1 [7][1]</td>
</tr>
<tr>
<td>14</td>
<td>Command Output #2 [7][2]/Sensor Reset</td>
</tr>
<tr>
<td>15</td>
<td>Global Stay Arming</td>
</tr>
<tr>
<td>16</td>
<td>[0] Quick Exit</td>
</tr>
<tr>
<td>17</td>
<td>[1] Reactivate StayAway Zones</td>
</tr>
<tr>
<td>18</td>
<td>Global Away Arming</td>
</tr>
<tr>
<td>19</td>
<td>Command Output 3 [7][3]</td>
</tr>
<tr>
<td>20</td>
<td>For Future Use</td>
</tr>
<tr>
<td>21</td>
<td>Command Output 4 [7][4]</td>
</tr>
<tr>
<td>22</td>
<td>Global Disarming</td>
</tr>
<tr>
<td>23</td>
<td>Bypass Recall</td>
</tr>
<tr>
<td>24</td>
<td>Recall Bypass Group</td>
</tr>
<tr>
<td>25</td>
<td>For Future Use</td>
</tr>
<tr>
<td>26</td>
<td>Time and Date</td>
</tr>
<tr>
<td>27</td>
<td>Select Partition 3</td>
</tr>
<tr>
<td>28</td>
<td>Select Partition 4</td>
</tr>
<tr>
<td>29</td>
<td>Select Partition 5</td>
</tr>
<tr>
<td>30</td>
<td>Select Partition 6</td>
</tr>
<tr>
<td>31</td>
<td>Select Partition 7</td>
</tr>
<tr>
<td>32</td>
<td>Select Partition 8</td>
</tr>
<tr>
<td>33</td>
<td>For Future Use</td>
</tr>
</tbody>
</table>

Partition/Slot Zone Definitions (enter the values below in the table immediately following):

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

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

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<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Null Zone (Not Used)</td>
</tr>
<tr>
<td>01</td>
<td>Delay 1*</td>
</tr>
<tr>
<td>02</td>
<td>Delay 2*</td>
</tr>
<tr>
<td>03</td>
<td>Instant*</td>
</tr>
<tr>
<td>04</td>
<td>Interior*</td>
</tr>
<tr>
<td>05</td>
<td>Interior, Stay/Away*</td>
</tr>
<tr>
<td>06</td>
<td>Delay!! Stay/Away*</td>
</tr>
<tr>
<td>07</td>
<td>Delayed 24-hr Fire (Hardwired)**</td>
</tr>
<tr>
<td>08</td>
<td>Standard 24-hr Fire (Hardwired)</td>
</tr>
<tr>
<td>09</td>
<td>24-hr Supervisory</td>
</tr>
<tr>
<td>10</td>
<td>24-hr Supervisory Buzzer*</td>
</tr>
<tr>
<td>11</td>
<td>24-hr Burglary*</td>
</tr>
<tr>
<td>12</td>
<td>24-hr Holdup*</td>
</tr>
<tr>
<td>13</td>
<td>24-hr Gas*</td>
</tr>
<tr>
<td>14</td>
<td>24-hr Heating*</td>
</tr>
<tr>
<td>15</td>
<td>24-hr Auxiliary (Medical)*</td>
</tr>
<tr>
<td>16</td>
<td>24-hr Panic*</td>
</tr>
<tr>
<td>17</td>
<td>24-hr Emergency*</td>
</tr>
<tr>
<td>18</td>
<td>24-hr Sprinkler*</td>
</tr>
<tr>
<td>19</td>
<td>24-hr Water*</td>
</tr>
<tr>
<td>20</td>
<td>24-hr Freeze*</td>
</tr>
<tr>
<td>21</td>
<td>24-hr Latching Tamper*</td>
</tr>
<tr>
<td>22</td>
<td>Momentary Keyswitch Arm*</td>
</tr>
<tr>
<td>23</td>
<td>Maintained Keyswitch Arm*</td>
</tr>
<tr>
<td>24</td>
<td>For Future Use</td>
</tr>
<tr>
<td>25</td>
<td>Interior/Delay*</td>
</tr>
<tr>
<td>26</td>
<td>24-hr Non-alarm*</td>
</tr>
<tr>
<td>27</td>
<td>Auto-Verified Fire</td>
</tr>
<tr>
<td>28</td>
<td>Fire Supervisory</td>
</tr>
<tr>
<td>29</td>
<td>Day Zone*</td>
</tr>
<tr>
<td>30</td>
<td>Instant Stay/Away*</td>
</tr>
<tr>
<td>31</td>
<td>24-hr Bell/Buzzer</td>
</tr>
<tr>
<td>32</td>
<td>24-hr Non-Latching Tamper Zone</td>
</tr>
<tr>
<td>33</td>
<td>Night Zone</td>
</tr>
<tr>
<td>34</td>
<td>For Future Use</td>
</tr>
<tr>
<td>35</td>
<td>24-hr Carbon Monoxide (hardwired)</td>
</tr>
<tr>
<td>36</td>
<td>24-hr Wireless Carbon Monoxide</td>
</tr>
<tr>
<td>37</td>
<td>Delay 24-hr Fire (Wireless/Addressable)**</td>
</tr>
<tr>
<td>38</td>
<td>Standard 24-hr Fire (Wireless/Addressable)**</td>
</tr>
</tbody>
</table>
### [005] System Times

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

#### [01] Partition 1 Entry/Exit times

<table>
<thead>
<tr>
<th>Time</th>
<th>Entry Delay 1</th>
<th>Entry Delay 2</th>
<th>Exit Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>030</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>045</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### [02] Partition 2 Entry/Exit times

<table>
<thead>
<tr>
<th>Time</th>
<th>Entry Delay 1</th>
<th>Entry Delay 2</th>
<th>Exit Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>030</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>045</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### [03] Partition 3 Entry/Exit times

<table>
<thead>
<tr>
<th>Time</th>
<th>Entry Delay 1</th>
<th>Entry Delay 2</th>
<th>Exit Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>030</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>045</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

#### [04] Partition 4 Entry/Exit times

<table>
<thead>
<tr>
<th>Time</th>
<th>Entry Delay 1</th>
<th>Entry Delay 2</th>
<th>Exit Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>030</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>045</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### [08] Partition 8 Entry/Exit times

<table>
<thead>
<tr>
<th>Time</th>
<th>Entry Delay 1</th>
<th>Entry Delay 2</th>
<th>Exit Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>030</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>045</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Enter 3 digits from 001-255</th>
</tr>
</thead>
<tbody>
<tr>
<td>004</td>
<td></td>
</tr>
</tbody>
</table>

### [06] Installer’s Code

<table>
<thead>
<tr>
<th>Default</th>
<th>5555</th>
</tr>
</thead>
</table>

### [07] Master Code

<table>
<thead>
<tr>
<th>Default</th>
<th>1234</th>
</tr>
</thead>
</table>

### [08] Maintenance Code

<table>
<thead>
<tr>
<th>Default</th>
<th>AAAA</th>
</tr>
</thead>
</table>

---

**Notes:**

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

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

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

- The master code can be restored to default in section [989] Default Master Code.
Programmable Output Options

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

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

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

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

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

Default: PGM 1

Default: PGM 2

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

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

Default: PGM 3 (main panel/PC5208)*

Default: PGM 4 (main panel/PC5208)*

Default: PGM 5 (PC5208)

Default: PGM 6 (PC5208)

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

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

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

Default: PGM 11

Default: PGM 12

Default: PGM 13

Default: PGM 14

Other System Options

[012] Keypad Lockout Options

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

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

Default: Lockout Duration (000-255 minutes)
### [013] First System Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Normally Closed Loops</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Double End-of-Line Resistors</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>✓</td>
<td>Panel shows all Troubles when armed</td>
<td>Panel shows only Fire Troubles when armed</td>
</tr>
<tr>
<td>4</td>
<td>✓</td>
<td>Auto-Arm Schedule in [*][6] and installers</td>
<td>Auto-arm Schedule in Installer Programming Only</td>
</tr>
<tr>
<td>5</td>
<td>✓</td>
<td>Audible Exit Fault Enabled</td>
<td>Audible Exit Fault Disabled</td>
</tr>
<tr>
<td>7</td>
<td>✓</td>
<td>Event Buffer Follows Swinger Shutdown</td>
<td>Event Buffer Logs Events past Shutdown</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Temporal Three Fire Signal Enabled</td>
<td>Standard Pulsed Fire Signal</td>
</tr>
</tbody>
</table>

### [014] Second System Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Arm /Disarm Bell Squawk Enabled</td>
<td>Arm /Disarm Bell Squawk Disabled</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Bell Squawk During Auto-Arm</td>
<td>No Bell Squawk During Auto-Arm</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Bell Squawk On Exit Delay</td>
<td>No Bell Squawk On Exit Delay</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Bell Squawk On Entry Delay</td>
<td>No Bell Squawk On Entry Delay</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Bell Squawk On Trouble</td>
<td>No Bell Squawk On Trouble</td>
</tr>
<tr>
<td>6</td>
<td>✓</td>
<td>Audible Exit with Urgency</td>
<td>Silent Exit Delay</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Exit Delay Termination Enabled</td>
<td>Exit Delay Termination Disabled</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Residential Fire Bell is Continuous</td>
<td>Residential Fire Bell is Cut-off</td>
</tr>
</tbody>
</table>

### [015] Third System Options

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

### [016] Fourth System Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>✓</td>
<td>AC Trouble Displayed</td>
<td>AC Trouble Not Displayed</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Trouble Light Flashes if AC Fails</td>
<td>Trouble Light does NOT follow AC Status</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Blank Keypad when Not Used</td>
<td>Keypad Blanking Disabled</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Code required to remove Keypad Blanking</td>
<td>No Code Required</td>
</tr>
<tr>
<td>5</td>
<td>✓</td>
<td>Keypad Backlighting is Enabled</td>
<td>Keypad Backlighting is Disabled</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Power Save Mode Enabled</td>
<td>Power Save Mode Disabled</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Bypass Status Displayed While Armed</td>
<td>Bypass Status Not Displayed While Armed</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Keypad Tamper Enabled</td>
<td>Keypad Tamper Disabled</td>
</tr>
</tbody>
</table>


[017] Fifth System Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>✓</td>
<td></td>
<td>WLS Key Does Not use Access Codes</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>✓</td>
<td>RF Jam Log after 5 Minutes</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>✓</td>
<td>Audible RF Jam Trouble Beeps</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>✓</td>
<td>Double Hit Enabled</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>✓</td>
<td>Late to Close Enabled</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>✓</td>
<td>Daylight Saving Time Enabled</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 1) Zone</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 3) Zone</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 5) Zone</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 7) Zone</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 9) Zone</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 11) Zone</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 13) Zone</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 15) Zone</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 17) Zone</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 19) Zone</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 21) Zone</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 23) Zone</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 25) Zone</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 27) Zone</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 29) Zone</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 31) Zone</td>
</tr>
<tr>
<td>23</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 33) Zone</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 35) Zone</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 37) Zone</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 39) Zone</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 41) Zone</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 43) Zone</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 45) Zone</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 47) Zone</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 49) Zone</td>
</tr>
<tr>
<td>32</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 51) Zone</td>
</tr>
<tr>
<td>33</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 53) Zone</td>
</tr>
<tr>
<td>34</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 55) Zone</td>
</tr>
<tr>
<td>35</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 57) Zone</td>
</tr>
<tr>
<td>36</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 59) Zone</td>
</tr>
<tr>
<td>37</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 61) Zone</td>
</tr>
<tr>
<td>38</td>
<td></td>
<td>✓</td>
<td>Keypad (slot 63) Zone</td>
</tr>
</tbody>
</table>

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

[018] Sixth System Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>✓</td>
<td>Test Transmission Exception Enabled</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>✓</td>
<td>For Future Use</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>✓</td>
<td>For Future Use</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>✓</td>
<td>For Future Use</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>✓</td>
<td>Keypad Buzzer Follows Bell Enabled</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>✓</td>
<td>Cross Zoning Enabled</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>✓</td>
<td>Exit Delay Restart Enabled (Enabled for SIA CP-01)</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>✓</td>
<td>AC Trouble Beeps Enabled</td>
</tr>
</tbody>
</table>

[019] Seventh System Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>✓</td>
<td>For Future Use</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>✓</td>
<td>For Future Use</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>✓</td>
<td>First Zone in Alarm Enabled</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>✓</td>
<td>For Future Use</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>✓</td>
<td>For Future Use</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>✓</td>
<td>Green Keypad LED Power Indication</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>✓</td>
<td>[•][•][•] Accessible by All Users</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>✓</td>
<td>For Future Use</td>
</tr>
</tbody>
</table>

Keypad Zone Assignments

[020] Keypad Zone Assignments

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

Default

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

00 I_____I Keypad (slot 9) Zone
00 I_____I Keypad (slot 10) Zone
00 I_____I Keypad (slot 11) Zone
00 I_____I Keypad (slot 12) Zone
00 I_____I Keypad (slot 13) Zone
00 I_____I Keypad (slot 14) Zone
00 I_____I Keypad (slot 15) Zone
00 I_____I Keypad (slot 16) Zone
00 I_____I Keypad (slot 17) Zone
00 I_____I Keypad (slot 18) Zone
00 I_____I Keypad (slot 19) Zone
00 I_____I Keypad (slot 20) Zone
00 I_____I Keypad (slot 21) Zone
00 I_____I Keypad (slot 22) Zone
00 I_____I Keypad (slot 23) Zone
00 I_____I Keypad (slot 24) Zone
00 I_____I Keypad (slot 25) Zone
00 I_____I Keypad (slot 26) Zone
00 I_____I Keypad (slot 27) Zone
00 I_____I Keypad (slot 28) Zone
00 I_____I Keypad (slot 29) Zone
00 I_____I Keypad (slot 30) Zone
00 I_____I Keypad (slot 31) Zone
00 I_____I Keypad (slot 32) Zone
00 I_____I Keypad (slot 33) Zone
00 I_____I Keypad (slot 34) Zone
00 I_____I Keypad (slot 35) Zone
00 I_____I Keypad (slot 36) Zone
00 I_____I Keypad (slot 37) Zone
00 I_____I Keypad (slot 38) Zone
00 I_____I Keypad (slot 39) Zone
00 I_____I Keypad (slot 40) Zone
00 I_____I Keypad (slot 41) Zone
00 I_____I Keypad (slot 42) Zone
00 I_____I Keypad (slot 43) Zone
00 I_____I Keypad (slot 44) Zone
00 I_____I Keypad (slot 45) Zone
00 I_____I Keypad (slot 46) Zone
00 I_____I Keypad (slot 47) Zone
00 I_____I Keypad (slot 48) Zone
00 I_____I Keypad (slot 49) Zone
00 I_____I Keypad (slot 50) Zone
00 I_____I Keypad (slot 51) Zone
00 I_____I Keypad (slot 52) Zone
00 I_____I Keypad (slot 53) Zone
00 I_____I Keypad (slot 54) Zone
00 I_____I Keypad (slot 55) Zone
00 I_____I Keypad (slot 56) Zone
00 I_____I Keypad (slot 57) Zone
00 I_____I Keypad (slot 58) Zone
00 I_____I Keypad (slot 59) Zone
00 I_____I Keypad (slot 60) Zone
00 I_____I Keypad (slot 61) Zone
00 I_____I Keypad (slot 62) Zone
00 I_____I Keypad (slot 63) Zone
00 I_____I Keypad (slot 64) Zone
### [021] Eighth System Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Access Code Entry Blocked During Entry Delay</td>
<td>Access Code Entry Not Blocked During Entry Delay</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Keyswitch Disarming During Entry Delay Only</td>
<td>Keyswitch Disarming at Any Time</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
</tbody>
</table>

### [022] Ninth System Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Access Code Req’d for [●][1], [●][2], [●][3]</td>
<td>No Access Code Req’d for [●][1], [●][2], [●][3]</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Master Code Bypasses Holdup Zones Only</td>
<td>Any Code Bypasses Holdup Zones</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>RF Delinquency enabled</td>
<td>RF Delinquency disabled</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Audible Exit Delay for Stay Arming</td>
<td>Stay Arming Silent</td>
</tr>
</tbody>
</table>

### [023] Tenth System Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Fire Key Beeps Only</td>
<td>Fire Key Beeps and Sounds Bell</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Test Transmission While Armed Only</td>
<td>Test Transmission While Armed/Disarmed</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Test Transmission in Hours</td>
<td>Test Transmission in Days</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Switching from AWAY to STAY disabled</td>
<td>AWAY to STAY toggle Option Permitted</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>2-way Audio will Not Disconnect for a New Event</td>
<td>2-way Audio will Disconnect for a New Event</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Trouble Beeps are Silent*</td>
<td>Trouble Beeps sound every 10 seconds</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Keyswitch Arm in Away Mode</td>
<td>Keyswitch arms in STAY or AWAY</td>
</tr>
</tbody>
</table>

*This option must be off for UL residential fire applications*

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

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
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**PowerSeries - PC1616/PC1832/PC1864**

**[101]-[164] Zone Attributes**

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

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

System Timers

[165] Maximum Dialing Attempts to Each Telephone Number
Default 005  I____I____I____I Valid entries are 001-005 attempts

For UL Listed Installations, 5 dialing attempts are required.

[166] Post Dial Wait for Handshake (All Formats)
Default 040  I____I____I____I Valid entries are 001-255 seconds

[167] TL/GS Module Wait for Acknowledgement
Default 060  I____I____I____I Valid entries are 060-255 seconds
[168] Set Clock Forward (Daylight Saving Time)
Def 003  Month   _______________  Valid Entries 001-012
Def 002  Week    _______________  Valid Entries 000-005
Def 000  Day     _______________  Valid Entries 000-031
Def 002  Hour    _______________  Valid Entries 000-023
Def 001  Increment _______________  Valid Entries 001-002

[169] Set Clock Back (Standard Time)
Def 011  Month   _______________  Valid Entries 001-012
Def 001  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 005  ___________  Valid entries are 001-255 seconds

[171] Tamper PGM Output Timer
Default 000  ___________  Valid entries are 000-255 minutes

[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; 000 for armed-to-armed period for Police Code

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

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

[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 disables
[192] 2  ___________  Valid entries are 001-255 minutes; 000 disables
[193] 3  ___________  Valid entries are 001-255 minutes; 000 disables
[194] 4  ___________  Valid entries are 001-255 minutes; 000 disables
[195] 5  ___________  Valid entries are 001-255 minutes; 000 disables
[196] 6  ___________  Valid entries are 001-255 minutes; 000 disables
[197] 7  ___________  Valid entries are 001-255 minutes; 000 disables
[198] 8  ___________  Valid entries are 001-255 minutes; 000 disables
[199] Auto-arming Pre-Alert Timer
Default: 004 I I I I I I I I Valid entries are 001-255 minutes

Partition Programming

[201] Partition Selection Mask

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<td>Cannot be disabled</td>
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<tr>
<td>2</td>
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<td>Partition 2 is enabled</td>
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<td></td>
<td>Partition 7 is enabled</td>
<td>Disabled</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Partition 8 is enabled</td>
<td>Disabled</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Partition 1 Zone Assignment</th>
<th>Partition 2 Zone Assignment</th>
<th>Partition 3 Zone Assignment</th>
<th>Partition 4 Zone Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>[209] 57-64</td>
<td>[217] 57-64</td>
<td>[225] 57-64</td>
<td>[233] 57-64</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Partition 5 Zone Assignment</th>
<th>Partition 6 Zone Assignment</th>
<th>Partition 7 Zone Assignment</th>
<th>Partition 8 Zone Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>[241] 57-64</td>
<td>[249] 57-64</td>
<td>[257] 57-64</td>
<td>[265] 57-64</td>
</tr>
</tbody>
</table>

Communications

[301] First Telephone Number (32 Digits)

[302] Second Telephone Number (32 Digits)

[303] Third Telephone Number (32 Digits)

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

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

<table>
<thead>
<tr>
<th>Partition Account Number</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[311] 1 Account Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[312] 2 Account Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[313] 3 Account Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[314] 4 Account Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[315] 5 Account Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[316] 6 Account Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[317] 7 Account Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[318] 8 Account Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All Account Number codes are defaulted to FFFF.

Reporting Codes

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

All Reporting Codes defaulted to FF unless otherwise indicated.

<table>
<thead>
<tr>
<th>Zone</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[320]</td>
<td>Zone 01</td>
<td>Zone 02</td>
<td>Zone 03</td>
<td>Zone 04</td>
<td>Zone 05</td>
<td>Zone 06</td>
<td>Zone 07</td>
</tr>
<tr>
<td>Zone 09</td>
<td>Zone 10</td>
<td>Zone 11</td>
<td>Zone 12</td>
<td>Zone 13</td>
<td>Zone 14</td>
<td>Zone 15</td>
<td>Zone 16</td>
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<tr>
<td>Zone 17</td>
<td>Zone 18</td>
<td>Zone 19</td>
<td>Zone 20</td>
<td>Zone 21</td>
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<td>Zone 23</td>
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<td>Zone 27</td>
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<td>Zone 32</td>
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<tr>
<td>Zone 33</td>
<td>Zone 34</td>
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<td>Zone 36</td>
<td>Zone 37</td>
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<td>Zone 39</td>
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<tr>
<td>Zone 41</td>
<td>Zone 42</td>
<td>Zone 43</td>
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<td>Zone 48</td>
</tr>
<tr>
<td>Zone 49</td>
<td>Zone 50</td>
<td>Zone 51</td>
<td>Zone 52</td>
<td>Zone 53</td>
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<td>Zone 57</td>
<td>Zone 58</td>
<td>Zone 59</td>
<td>Zone 60</td>
<td>Zone 61</td>
<td>Zone 62</td>
<td>Zone 63</td>
<td>Zone 64</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Zone</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[324]</td>
<td>Zone 01</td>
<td>Zone 02</td>
<td>Zone 03</td>
<td>Zone 04</td>
<td>Zone 05</td>
<td>Zone 06</td>
<td>Zone 07</td>
</tr>
<tr>
<td>Zone 09</td>
<td>Zone 10</td>
<td>Zone 11</td>
<td>Zone 12</td>
<td>Zone 13</td>
<td>Zone 14</td>
<td>Zone 15</td>
<td>Zone 16</td>
</tr>
<tr>
<td>Zone 17</td>
<td>Zone 18</td>
<td>Zone 19</td>
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<td>Zone 21</td>
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<td>Zone 23</td>
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<td>Zone 57</td>
<td>Zone 58</td>
<td>Zone 59</td>
<td>Zone 60</td>
<td>Zone 61</td>
<td>Zone 62</td>
<td>Zone 63</td>
<td>Zone 64</td>
</tr>
</tbody>
</table>
### [328] Miscellaneous Alarm Reporting Codes
- Duress Alarm
- Opening After Alarm
- Recent Closing
- Zone Expander Supervisory Alarm
- Zone Expander Supervisory Restore
- Cross Zone Police Code Alarm
- Burglary Not Verified
- Alarm Cancelled

### [329] Priority Alarm and Restoral
- Keypad Fire Alarm
- Keypad Auxiliary Alarm
- Keypad Panic Alarm
- Auxiliary Input Alarm
- Keypad Fire Restoral
- Keypad Auxiliary Restoral
- Keypad Panic Restoral
- Auxiliary Input Restore

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

#### Section [330]
<table>
<thead>
<tr>
<th>Zone 01</th>
<th>Zone 02</th>
<th>Zone 03</th>
<th>Zone 04</th>
<th>Zone 05</th>
<th>Zone 06</th>
<th>Zone 07</th>
<th>Zone 08</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>Zone 09</td>
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</tr>
</tbody>
</table>

#### Section [331]
<table>
<thead>
<tr>
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<th>Zone 18</th>
<th>Zone 19</th>
<th>Zone 20</th>
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<th>Zone 22</th>
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<tbody>
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<td>Zone 25</td>
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<td>Zone 27</td>
<td>Zone 28</td>
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<td>Zone 30</td>
<td>Zone 31</td>
<td>Zone 32</td>
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<td></td>
</tr>
</tbody>
</table>

#### Section [332]
<table>
<thead>
<tr>
<th>Zone 33</th>
<th>Zone 34</th>
<th>Zone 35</th>
<th>Zone 36</th>
<th>Zone 37</th>
<th>Zone 38</th>
<th>Zone 39</th>
<th>Zone 40</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>Zone 41</td>
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<td>Zone 43</td>
<td>Zone 44</td>
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<td>Zone 46</td>
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<td></td>
</tr>
</tbody>
</table>

#### Section [333]
<table>
<thead>
<tr>
<th>Zone 49</th>
<th>Zone 50</th>
<th>Zone 51</th>
<th>Zone 52</th>
<th>Zone 53</th>
<th>Zone 54</th>
<th>Zone 55</th>
<th>Zone 56</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Zone 57</td>
<td>Zone 58</td>
<td>Zone 59</td>
<td>Zone 60</td>
<td>Zone 61</td>
<td>Zone 62</td>
<td>Zone 63</td>
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</tr>
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</tr>
</tbody>
</table>

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

#### Section [334]
<table>
<thead>
<tr>
<th>Zone 01</th>
<th>Zone 02</th>
<th>Zone 03</th>
<th>Zone 04</th>
<th>Zone 05</th>
<th>Zone 06</th>
<th>Zone 07</th>
<th>Zone 08</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Zone 09</td>
<td>Zone 10</td>
<td>Zone 11</td>
<td>Zone 12</td>
<td>Zone 13</td>
<td>Zone 14</td>
<td>Zone 15</td>
<td>Zone 16</td>
</tr>
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<td></td>
</tr>
</tbody>
</table>

#### Section [335]
<table>
<thead>
<tr>
<th>Zone 17</th>
<th>Zone 18</th>
<th>Zone 19</th>
<th>Zone 20</th>
<th>Zone 21</th>
<th>Zone 22</th>
<th>Zone 23</th>
<th>Zone 24</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Zone 25</td>
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Section [336]
<table>
<thead>
<tr>
<th>Zone 33</th>
<th>Zone 34</th>
<th>Zone 35</th>
<th>Zone 36</th>
<th>Zone 37</th>
<th>Zone 38</th>
<th>Zone 39</th>
<th>Zone 40</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Zone 41</td>
<td>Zone 42</td>
<td>Zone 43</td>
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<td>Zone 47</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Section [337]
<table>
<thead>
<tr>
<th>Zone 49</th>
<th>Zone 50</th>
<th>Zone 51</th>
<th>Zone 52</th>
<th>Zone 53</th>
<th>Zone 54</th>
<th>Zone 55</th>
<th>Zone 56</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone 57</td>
<td>Zone 58</td>
<td>Zone 59</td>
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<td>Zone 61</td>
<td>Zone 62</td>
<td>Zone 63</td>
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</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Miscellaneous Tamper Reporting Codes

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
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</tr>
</tbody>
</table>

- General System Tamper
- General System Tamper Rest.
- Keypad Lockout

### Closing (Arming) Reporting Codes, Access Codes 1-32

#### Section

|--------|--------|--------|--------|--------|--------|--------|--------|

#### Section

|---------|---------|---------|---------|---------|---------|---------|---------|

- Miscellaneous Closing (Arming) Reporting Codes
- Special Closing
- Keypad Lockout
- Keypad Lockout
- Keypad Lockout

### Opening (Disarming) Reporting Codes, Access Codes 1-32

#### Section

|--------|--------|--------|--------|--------|--------|--------|--------|

#### Section

|---------|---------|---------|---------|---------|---------|---------|---------|

### Miscellaneous Opening (Disarming) Reporting Codes

|--------|--------|--------|--------|--------|--------|--------|--------|

### Maintenance Alarm Reporting Codes

|--------|--------|--------|--------|--------|--------|--------|--------|

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

### Maintenance Restoral Reporting Codes

|--------|--------|--------|--------|--------|--------|--------|--------|

- Battery Trouble Restoral
- AC Failure Trouble Restoral
- Bell Circuit Trouble Restoral
- Fire Trouble Restoral
- Auxiliary Power Supply Trouble Restoral
- TLM Restoral
- General System Trouble Restoral
- General System Supervisory Restoral
- Cold Start
### [347] Miscellaneous Maintenance Reporting Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Telephone Number 1 FTC Restore</td>
</tr>
<tr>
<td>2</td>
<td>Telephone Number 2 FTC Restore</td>
</tr>
<tr>
<td>3</td>
<td>Event Buffer 75% Full Since Last Upload</td>
</tr>
<tr>
<td>4</td>
<td>DLS Lead IN</td>
</tr>
<tr>
<td>5</td>
<td>DLS Lead OUT</td>
</tr>
<tr>
<td>6</td>
<td>Zone Fault Alarm</td>
</tr>
<tr>
<td>7</td>
<td>Zone Fault Restore</td>
</tr>
<tr>
<td>8</td>
<td>Delinquency Code</td>
</tr>
<tr>
<td>9</td>
<td>General Zone Low Battery Alarm</td>
</tr>
<tr>
<td>10</td>
<td>General Zone Low Battery Restoral</td>
</tr>
<tr>
<td>11</td>
<td>Installer Lead Out</td>
</tr>
<tr>
<td>12</td>
<td>Installer Lead In</td>
</tr>
</tbody>
</table>

### [348] Test Transmission Reporting Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Walk Test End</td>
</tr>
<tr>
<td>2</td>
<td>Walk Begin</td>
</tr>
<tr>
<td>3</td>
<td>Periodic Test Transmission with Trouble</td>
</tr>
<tr>
<td>4</td>
<td>Periodic Test Transmission</td>
</tr>
<tr>
<td>5</td>
<td>System Test</td>
</tr>
<tr>
<td>6</td>
<td>For Future Use</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PC5700 Ground Fault Trouble</td>
</tr>
<tr>
<td>2</td>
<td>PC5700 Ground Fault Restore</td>
</tr>
<tr>
<td>3</td>
<td>PC5700 TLM Line 1 Trouble</td>
</tr>
<tr>
<td>4</td>
<td>PC5700 TLM Line 1 Restore</td>
</tr>
<tr>
<td>5</td>
<td>PC5700 TLM Line 2 Trouble</td>
</tr>
<tr>
<td>6</td>
<td>PC5700 TLM Line 2 Restore</td>
</tr>
</tbody>
</table>

### [350] Communicator Format Options

<table>
<thead>
<tr>
<th>Default</th>
<th>Option 1</th>
<th>Option 2</th>
<th>Option 3</th>
<th>Option 4</th>
<th>Option 5</th>
<th>Options 6,7,8</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>20 BPS, 1400 HZ handshake</td>
<td>02</td>
<td>20 BPS, 2300 HZ handshake</td>
<td>03</td>
<td>DTMF CONTACT ID</td>
<td>04 SIA FSK</td>
</tr>
<tr>
<td>05</td>
<td>Pager</td>
<td>06</td>
<td>Residential Dial**</td>
<td>07</td>
<td>10 BPS, 1400Hz handshake</td>
<td>08 10 BPS, 2300Hz handshake</td>
</tr>
<tr>
<td>04</td>
<td>2nd Telephone Number</td>
<td>09-13</td>
<td>For Future Use</td>
<td>10-13</td>
<td>For Future Use</td>
<td>11-13 For Future Use</td>
</tr>
</tbody>
</table>

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

### Call Direction Options

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Partition</th>
<th>Option 1 1st Telephone Number (Def ON)</th>
<th>Option 2 2nd Telephone Number (Def OFF)</th>
<th>Option 3 Not Used (Def OFF)</th>
<th>Option 4 Not Used (Def OFF)</th>
<th>Option 5 Alt Comm (Def ON)</th>
<th>Options 6,7,8 Future Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>[351]</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[352]</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[353]</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[354]</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[355]</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[356]</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[357]</td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[358]</td>
<td>8</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Partition</th>
<th>Option 1 1st Telephone Number (Def ON)</th>
<th>Option 2 2nd Telephone Number (Def OFF)</th>
<th>Option 3 Not Used (Def OFF)</th>
<th>Option 4 Not Used (Def OFF)</th>
<th>Option 5 Alt Comm (Def ON)</th>
<th>Options 6,7,8 Future Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>[359]</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[360]</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[361]</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[362]</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[363]</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[364]</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[365]</td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>[366]</td>
<td>8</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
[367]-[374] Opening/Closing Communicator Call Directions

<table>
<thead>
<tr>
<th>Section</th>
<th>Partition</th>
<th>Option 1 1st Telephone Number (Def OFF)</th>
<th>Option 2 2nd Telephone Number (Def OFF)</th>
<th>Option 3 Not Used (Def OFF)</th>
<th>Option 4 Not Used (Def OFF)</th>
<th>Option 5 Alt Comm (Def OFF)</th>
<th>Options 6,7,8 Future Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>[367]</td>
<td>1</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
<tr>
<td>[368]</td>
<td>2</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
<tr>
<td>[369]</td>
<td>3</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
<tr>
<td>[370]</td>
<td>4</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
<tr>
<td>[371]</td>
<td>5</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
<tr>
<td>[372]</td>
<td>6</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
<tr>
<td>[373]</td>
<td>7</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
<tr>
<td>[374]</td>
<td>8</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
</tbody>
</table>

[375] System Maintenance Communicator Call Directions

<table>
<thead>
<tr>
<th>Section</th>
<th>Partition</th>
<th>Option 1 1st Telephone Number (Def ON)</th>
<th>Option 2 2nd Telephone Number (Def OFF)</th>
<th>Option 3 Not Used (Def OFF)</th>
<th>Option 4 Not Used (Def OFF)</th>
<th>Option 5 Alt Comm (Def ON)</th>
<th>Options 6,7,8 Future Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>[375]</td>
<td></td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
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</table>

[376] System Test Transmissions Communicator Call Directions

<table>
<thead>
<tr>
<th>Section</th>
<th>Partition</th>
<th>Option 1 1st Telephone Number (Def ON)</th>
<th>Option 2 2nd Telephone Number (Def OFF)</th>
<th>Option 3 Not Used (Def OFF)</th>
<th>Option 4 Not Used (Def OFF)</th>
<th>Option 5 Alt Comm (Def ON)</th>
<th>Options 6,7,8 Future Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>[376]</td>
<td></td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
</tbody>
</table>

[377] Communication Variables

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

**Default**

| 003 | 1_0_1_0_1_1_1 | Swinger Shutdown (Alarms and Rest) | 001-014 Transmissions; 000=disabled |
| 003 | 1_0_1_0_1_3_1 | Swinger Shutdown (Tampers and Rest) | 001-014 Transmissions; 000=disabled |
| 003 | 1_0_1_0_1_3_1 | Swinger Shutdown (Maintenance and Rest) | 001-014 Transmissions; 000=disabled |
| 000 | 1_0_1_3_1_0_1 | Communication Delay* | 000-255 seconds |
| 030 | 1_0_1_3_1_0_1 | AC Failure Communication Delay | 001-255 hours/minutes**; 000=disabled |
| 010 | 1_0_1_3_1_0_1 | TLM Trouble Delay | No. of checks required - valid entries 003 - 255 |
| 030 | 1_0_1_3_1_0_1 | Test Transmission Cycle (land line) | 001-255 days/minutes*** |
| 030 | 1_0_1_3_1_0_1 | For Future Use |
| 007 | 1_0_1_0_1_7_1 | Zone Low Battery Transmission Delay | 000-255 days |
| 030 | 1_0_1_3_1_0_1 | Delinquency Transmission Cycle | 000-255 days/hours**** |
| 000 | 1_0_1_0_1_5_1 | Communications Cancelled Window | 000-255 minutes |

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

**Dependent on programming in [382], Option [6].

***Dependent on programming in [702], Option [3].

****Dependent on programming in [380], Option [8].

[378] Test Transmission Time of Day

**Default**

| 9999 | 1_1_1_1_1_1_1_1 | Valid entries are 0000-2359 (9999 to disable) |

[379] Periodic DLS Time of Day

**Default**

| FFFF | 1_1_1_1_1_1_1_1 | Valid entries are 0000-2359 (9999 for Random; FFFF to disable) |
### [380] First Communicator Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>✓</td>
<td>Communications Enabled</td>
<td>Communications Disabled</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Restorals on Bell Time-out</td>
<td>Restorals Follow Zones</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Pulse Dialing</td>
<td>DTMF Dialing</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Switch to Pulse Dialing on 5th Attempt</td>
<td>DTMF Dial For All Attempts</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>3rd Telephone Number Enabled</td>
<td>3rd Telephone Number Disabled</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Alternate Dial (1st &amp; 3rd)</td>
<td>Call 1st Number, Back up to 3rd</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Delinquency Follows Zone Activity (Hours)</td>
<td>Delinquency Follows Arming (Days)</td>
</tr>
</tbody>
</table>

### [381] Second Communicator Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Open After Alarm Keypad Ringback Enabled</td>
<td>Open After Alarm Keypad Ringback Disabled</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Open After Alarm Bell Ringback Enabled</td>
<td>Open After Alarm Bell Ringback Disabled</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>SIA Sends Programmed Reporting Codes</td>
<td>SIA Sends Automatic Reporting Codes</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Closing Confirmation Enabled</td>
<td>Closing Confirmation Disabled</td>
</tr>
<tr>
<td>5</td>
<td>✓</td>
<td>Talk/Listen on Phone Lines 1/3</td>
<td>No Talk/Listen on Phone Lines 1/3</td>
</tr>
<tr>
<td>6</td>
<td>✓</td>
<td>Talk/Listen on Phone Line 2</td>
<td>No Talk/Listen on Phone Line 2</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Contact ID Uses Programmed Reporting Codes</td>
<td>Contact ID Uses Automatic Reporting Codes</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>ULC Communications Priority Enabled</td>
<td>ULC Communications Priority Disabled/Standard Priority Followed</td>
</tr>
</tbody>
</table>

### [382] Third Communicator Options

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

*This option must remain OFF for SIA CP-01 installations.
** A Call Waiting Cancel on a non-Call Waiting line will prevent successful connection to the central station.

### [383] Fourth Communicator Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Account Code Follows Phone Number</td>
<td>Account Code Follows Partition</td>
</tr>
<tr>
<td>2-8</td>
<td></td>
<td>For Future Use</td>
<td></td>
</tr>
</tbody>
</table>

### [389] TL/GS Module Fault Check Timer

Default: 003 [_______] Enter no. of checks X 3 seconds - valid entries 002 to 255
**DLS Downloading**

**[401] Downloading Option Codes**

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PC1616</td>
<td>161600</td>
<td>_____________________________</td>
<td>___________________</td>
</tr>
<tr>
<td>PC1832</td>
<td>183200</td>
<td>_____________________________</td>
<td>___________________</td>
</tr>
<tr>
<td>PC1864</td>
<td>186400</td>
<td>_____________________________</td>
<td>___________________</td>
</tr>
</tbody>
</table>

**[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]- [554] Programmable Output Attributes**

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

<table>
<thead>
<tr>
<th>Attribute:</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGM Option</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[01] Residential Burglary / Fire Bell Output</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[02] For Future Use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[03] Sensor Reset [●][7][2]</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[04] 2-Wire Smoke Support (PGM2 only)</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[05] System Armed Status</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[06] Ready To Arm</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[07] Keypad Buzzer Follower Mode</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[08] Courtesy Pulse</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[11] System Tamper (all sources)</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[12] TLM and Alarm</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[14] Ground Start Pulse</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>[16] For Future Use</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[17] Away Armed Status</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[18] Stay Armed Status</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>[19] Command Output #1, [●][7][1]</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>[20] Command Output #2, [●][7][2]</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>[21] Command Output #3, [●][7][3]</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>[22] Command Output #4, [●][7][4]</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>
[23] 24-hr Silent Input (PGM2 only) Y
[24] 24-hr Audible Input (PGM2 only) Y
[25] Delayed Burglary & Fire Output Y
[26] Battery Test Output Y
[27] Holdup Output Y
[30] Partition Status Alarm Memory Output Y
[33] For Future Use
[34] Away Armed with no Zone Bypassed Status

<table>
<thead>
<tr>
<th>Attribute: PGM Option</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>[09] System Trouble ON</td>
<td>Serv. req.</td>
<td>AC Fail</td>
<td>TLM Fault</td>
<td>FTC</td>
<td>Zone Fault</td>
<td>Zone Temp.</td>
<td>Zn. Low Bat.</td>
<td>Loss of Clock</td>
</tr>
<tr>
<td>OFF</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
</tr>
<tr>
<td>OFF</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Latched</td>
</tr>
<tr>
<td>[31] Alternate Communicator ON</td>
<td>Fire Alarm</td>
<td>Panic Alarm</td>
<td>Burglary Alarm</td>
<td>Open/Close</td>
<td>Zone Auto Bypass</td>
<td>Medical Alarm</td>
<td>Police Code</td>
<td>Active When true</td>
</tr>
<tr>
<td>OFF</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Latched</td>
</tr>
<tr>
<td>[29], [35]-[41] Zone Follower ON</td>
<td>Future Use</td>
<td>Future Use</td>
<td>True Output Inverted</td>
<td>Future Use</td>
<td>Future Use</td>
<td>Future Use</td>
<td>Future Use</td>
<td>AND Logic OR Logic</td>
</tr>
<tr>
<td>OFF</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

Section PGM Output Type*

Main Board

[501] 1 ( ) 
[502] 2 ( )

Main Board / PC5208

[503] ** 3 ( )
[504] ** 4 ( )

Section PGM Output Type*

PC5208

[505] 5 ( )
[506] 6 ( )
[507] 7 ( )
[508] 8 ( )
[509] 9 ( )
[510] 10 ( )

PC5204

[511] 11 ( )
[512] 12 ( )
[513] 13 ( )
[514] 14 ( )

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

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

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### 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 following table. Record the assignments above.

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### Extended Reporting Codes

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

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### Opening (Disarming) Reporting Codes, Access Codes 33-95

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#### Automatic Disarming Schedule

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

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#### Auto-Disarm Holiday Schedule

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

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<td>[1]</td>
<td>[1]</td>
<td>[1]</td>
</tr>
<tr>
<td>Holiday 8</td>
<td>Holiday 9</td>
<td>Holiday 10</td>
<td>Holiday 11</td>
<td>Holiday 12</td>
<td>Holiday 13</td>
<td>Holiday 14</td>
<td></td>
</tr>
<tr>
<td>[1]</td>
<td>[1]</td>
<td>[1]</td>
<td>[1]</td>
<td>[1]</td>
<td>[1]</td>
<td>[1]</td>
<td>[1]</td>
</tr>
</tbody>
</table>
INTERNATIONAL PROGRAMMING

[700] Automatic Clock Adjust

Default = 60 Valid Entries 00-99 Seconds

[701] First International Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>Valid Entries 00-99 Seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50 Hz AC</td>
<td></td>
<td>60 Hz AC</td>
</tr>
<tr>
<td>2</td>
<td>Time Base - Internal Crystal</td>
<td></td>
<td>Time Base - AC Line</td>
</tr>
<tr>
<td>3</td>
<td>AC/DC Arming Inhibit Enabled</td>
<td></td>
<td>AC/DC Arming Inhibit Disabled</td>
</tr>
<tr>
<td>4</td>
<td>All System Tamper Requires Installer Reset</td>
<td></td>
<td>All System Tamper Requires Installer Reset</td>
</tr>
<tr>
<td>5</td>
<td>6-digit User Access Codes</td>
<td></td>
<td>4-digit User Access Codes</td>
</tr>
<tr>
<td>6</td>
<td>Busy Tone Detection Enabled</td>
<td></td>
<td>Busy Tone Detection Disabled</td>
</tr>
<tr>
<td>7</td>
<td>High Current Battery Charge</td>
<td></td>
<td>Standard Current Battery Charge</td>
</tr>
<tr>
<td>8</td>
<td>DLS/Audio has no priority</td>
<td></td>
<td>DLS/Audio has priority</td>
</tr>
</tbody>
</table>

[702] Second International Options

<table>
<thead>
<tr>
<th>Opt</th>
<th>Def</th>
<th>ON</th>
<th>Valid Entries 000-255 Second</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pulse Dialing Make/Break Ratio is 33/67</td>
<td></td>
<td>Pulse Dialing Make/Break Ratio is 40/60</td>
</tr>
<tr>
<td>2</td>
<td>Force Dialing Enabled</td>
<td></td>
<td>Force Dialing Disabled</td>
</tr>
<tr>
<td>3</td>
<td>Landline Test Transmission in Minutes</td>
<td></td>
<td>Landline Test Transmission in Days</td>
</tr>
<tr>
<td>4</td>
<td>1600 Hz Handshake</td>
<td></td>
<td>Standard Handshake</td>
</tr>
<tr>
<td>5</td>
<td>ID Tone Enabled</td>
<td></td>
<td>ID Tone Disabled</td>
</tr>
<tr>
<td>6</td>
<td>2100 Hz ID Tone</td>
<td></td>
<td>1300 Hz ID Tone</td>
</tr>
<tr>
<td>7</td>
<td>One-Time 1-hr User Enabled DLS Window</td>
<td></td>
<td>Full 6-hr User Enabled DLS Window</td>
</tr>
<tr>
<td>8</td>
<td>Bell on FTC when Armed</td>
<td></td>
<td>FTC Trouble only when Armed</td>
</tr>
</tbody>
</table>

[703] Delay Between Dialing Attempts

Default = 003 Valid Entries 000-255 Second
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.

[804] Wireless Expansion Programming
Refer to the RF5132/RFK55xx Installation Manual for programming locations and instructions.

[805] PC5100 Programming
Refer to the PC5100 Installation Manual for programming locations and instructions.

[851] TL/GS Module Programming
Refer to the TL/GS Installation Manual for programming locations and instructions.

Special Installer Functions

[898] Wireless Enrollment

[899] Template Programming
[900] Panel Version Displayed
[901] Installer Walk Test Mode Enable/Disable
[902] Module Supervision Reset
[903] Module Supervision Field
[904] Wireless Module Placement Test
[905] - [909] For Future Use
[989] Default Master Code
[990][Installer Code][990] Installer Lockout Enable
[991][Installer Code][991] Installer Lockout Disable
[992] For Future Use
[993][Installer Code][993] Restore Alternate Communicator to Default Programming
[994] For Future Use
[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
### For the Record

Customer: ____________________________________________________________
Address: _____________________________________________________________
Telephone: ___________________________ Installation Date: ___________________
Installer’s Code: ______________________________________________________

### Module Name Description Location

<table>
<thead>
<tr>
<th>PC1616/PC1832/PC1864</th>
<th>Main Panel</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Keypads</th>
<th>Keypad Type</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keypad 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keypad 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keypad 3</td>
<td></td>
<td></td>
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<tr>
<td>Keypad 4</td>
<td></td>
<td></td>
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<tr>
<td>Keypad 5</td>
<td></td>
<td></td>
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<tr>
<td>Keypad 6</td>
<td></td>
<td></td>
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<tr>
<td>Keypad 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keypad 8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Zone Programming Summary

Zone programming can be found in sections [001] - [004], [101] - [164], [020], [202] - [265]. Use this area to record a summary of your zone programming.

<table>
<thead>
<tr>
<th>System Zone</th>
<th>Zone Label</th>
<th>Zone Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone 2</td>
<td></td>
<td></td>
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<tr>
<td>Zone 3</td>
<td></td>
<td></td>
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<td>Zone 4</td>
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<td>Zone 6</td>
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<td>Zone 7</td>
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<td>Zone 8</td>
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<td>Zone 9</td>
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<td>Zone 10</td>
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<td>Zone 11</td>
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<td>Zone 12</td>
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<td>Zone 13</td>
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<td>Zone 14</td>
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<td>Zone 29</td>
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<td>Zone 30</td>
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<tr>
<td>Zone 31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone 32</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>System Zone</th>
<th>Zone Label</th>
<th>Zone Type</th>
</tr>
</thead>
<tbody>
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<td>Zone 63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone 64</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix A: Reporting Codes

The following tables contain Contact ID and Automatic SIA format reporting codes. For more information on reporting code formats and notes about individual reporting codes, see programming sections [320]-[349] and [601]-[608].

**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 (hard coded)**

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.**

Verifying the Area Identifier Ri00:

N Ri01 = BA 01
N = New Event
Ri01 = Partition/Area Identifier

Table 1: Reporting Codes/

<table>
<thead>
<tr>
<th>Section #</th>
<th>Reporting Code</th>
<th>Code Sent When...</th>
<th>Dialer Direction</th>
<th>Automatic Contact ID Codes</th>
<th>SIA Auto Rep Codes**</th>
</tr>
</thead>
<tbody>
<tr>
<td>[320]-[323] Zone Alarms</td>
<td>Zone goes into alarm</td>
<td>AR</td>
<td>See Tables 2 &amp; 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[324]-[327] Zone Restorals</td>
<td>Alarm condition has been restored</td>
<td>AR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>328</td>
<td>Duress Alarm</td>
<td>Duress code entered at keypad</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>328</td>
<td>Opening After Alarm</td>
<td>System disarmed with alarm in memory</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>328</td>
<td>Recent Closing</td>
<td>Alarm occurs within two minutes of system arming</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>328</td>
<td>Zone Expander Supervisory Alarm/Rest.</td>
<td>Panel loses/restores supervisory transmission over the Keybus from zone expansion modules, or keypads with zone inputs</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>328</td>
<td>Cross Zone (Police Code) Alarm</td>
<td>Two zones on the same partition go into alarm during any armed-to-armed period (incl. 24Hr zones)</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>328</td>
<td>Burglary Not Verified</td>
<td>This event is transmitted when a second cross-zone alarm does not occur within the cross-zoning time</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>328</td>
<td>Alarm Cancelled</td>
<td>Sent when the system is disarmed after an alarm, but before the expiry of the alarm cancellation timer</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>329</td>
<td>[F] Key Alarm/Restoral</td>
<td>Keypad fire alarm/restore (alarm and restore rep. codes sent together)</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>329</td>
<td>[A] Key Alarm/Restoral</td>
<td>Keypad auxiliary alarm/restore (alarm and restore rep. codes sent together)</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>329</td>
<td>[P] Key Alarm/Restoral</td>
<td>Keypad panic alarm/restore (alarm and restore rep. codes sent together)</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>329</td>
<td>Aux Input Alarm/Restoral</td>
<td>Option #23/24: a panic button wired to PGM 2 is pressed/access code is entered</td>
<td>AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>330]-[337] Zone Tamper/Restoral</td>
<td>Zone is tampered / tamper condition restored</td>
<td>T/R</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>338</td>
<td>General System Tamper/Restoral</td>
<td>Enrolled module with tamper inputs has a tamper alarm/all module tampers restored</td>
<td>T/R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>338</td>
<td>Keypad Lockout</td>
<td>Max. number of incorrect access codes has been entered at a keypad</td>
<td>T/R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>339]-[341] Closings</td>
<td>System armed (user 01-32 indicated)</td>
<td>O/C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>341</td>
<td>Partial Closing</td>
<td>One or more zones bypassed when system armed</td>
<td>O/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>341</td>
<td>Special Closing</td>
<td>Closing (arming) using one of the following methods: quick arm, auto arm, keyswitch, function key, maintenance code, DLS software, wireless key</td>
<td>O/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>341</td>
<td>Late to Close</td>
<td>Whenever the Auto-arm prealert sounds (if the Late to Close option is enabled)</td>
<td>O/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>341</td>
<td>Exit Fault</td>
<td>The Exit Fault pre-alert occurs and Entry Delay expires</td>
<td>O/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>341</td>
<td>Zone Bypass</td>
<td>Zone is bypassed</td>
<td>O/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>342-344</td>
<td>Openings</td>
<td>System disarmed (user 01-32 indicated)</td>
<td>O/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>344</td>
<td>Auto-arm Cancellation</td>
<td>Auto-arm cancelled</td>
<td>O/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>344</td>
<td>Special Opening</td>
<td>Opening (disarming) using one of the following methods: keyswitch, maintenance code, DLS software, wireless key</td>
<td>O/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>345]-[346] Battery Trouble/Restoral</td>
<td>PC1616/PC1832/PC1864 battery is low/battery restored</td>
<td>MA/R</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>345]-[346] AC Line Trouble/Restoral</td>
<td>AC power to control panel is disconnected or interrupted/AC power restored (Both codes follow AC Failure Comm. Delay.)</td>
<td>MA/R</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>345]-[346] Bell Circuit Trouble/Restoral</td>
<td>Open or short circuit detected across bell terminals/bell circuit restored</td>
<td>MA/R</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>345]-[346] Fire Trouble/Restoral</td>
<td>Trouble occurs/restores on a fire zone</td>
<td>MA/R</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>345]-[346] Auxiliary Power Trouble/Restoral</td>
<td>Aux voltage supply trouble/restoral</td>
<td>MA/R</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 2: See Table 3

Table 3: See Table 3
Table 2: Contact ID Programmed Zone Alarm/Restoral Event Codes (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.

### Medical Alarms
- **[1]A Medical (1)34 Entry / Exit**
- **[1]A1 Pendant Transmitter (1)35 Day / Night**
- **[1]A2 Fail to Report in (1)36 Outdoor**

### Fire Alarms
- **[1]A Fire Alarm (1)38 Near Alarm**

### General Alarms
- **[1]A General Alarm (1)44 Exp. module failure**
- **[1]A1 Water Level (1)44 Sensor tamper**
- **[1]A2 Heat (1)45 Module tamper**
- **[1]A3 Pull Station (1)35 Alarm Zone Polizei**
- **[1]A4 Duct (1)58 24 Hour Non-Burglary**
- **[1]B Flame (1)59 24 Hour non-Burglary**
- **[1]B1 Near Alarm (1)51 Gas detected**

### Panic Alarms
- **[1]A Panic (1)52 Referred to**
- **[1]A1 Duress (1)54 Water Leakage**
- **[1]A2 Silent (1)55 Foli Break**

### Burglar Alarms
- **[1]A Burglary (1)58 High Temp**
- **[1]A1 Perimeter (1)59 Low Temp**
- **[1]A2 Interior (1)61 Loss of Air Flow**
- **[1]A3 24 Hour**

### Table 3: Automatic Zone Alarm/Restoral Codes

<table>
<thead>
<tr>
<th>Zone Definition</th>
<th>SIA Auto Rep Codes*</th>
<th>Contact ID Alarm Auto Rep Codes*</th>
<th>Contact ID Rest Auto Rep Codes**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delay 1</td>
<td>BA-ZZ/BF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Delay 2</td>
<td>BA-ZZ/BF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Instant</td>
<td>BA-ZZ/BF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Interior</td>
<td>BA-ZZ/BF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Interior Story/Away</td>
<td>BA-ZZ/BF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Delay Story/Away</td>
<td>BA-ZZ/BF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Delay 24-Hr Fire</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Standard 24-Hr Fire</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Supervisory</td>
<td>US-ZZ/UR-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Supervisory Buzzer</td>
<td>UN-ZZ/UR-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Burglary</td>
<td>BA-ZZ/BF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Roblue</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Gas</td>
<td>US-ZZ/UR-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Heat</td>
<td>BA-ZZ/BF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Auxiliary (Medical)</td>
<td>MA-ZZ/MR-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Panic</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Emergency (non-medical)</td>
<td>UA-ZZ/UR-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Sprinkler</td>
<td>SA-ZZ/ST-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Water</td>
<td>WA-ZZ/WF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Freeze</td>
<td>LA-ZZ/ZF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Latching</td>
<td>UA-ZZ/UH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Interior Delay</td>
<td>BA-ZZ/BF-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Auto Verified Fire</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Fire Supervisory</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Gas Zone</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Auxiliary (Medical)</td>
<td>MA-ZZ/MR-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Fire Zone</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Delay 24-Hr Fire (Wireless)</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>Standard 24-Hr Fire (Wireless)</td>
<td>FA-ZZ/FH-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
<tr>
<td>24-Hr Burglary</td>
<td>UN-ZZ/UR-ZZ</td>
<td>E(1)5A-ZZZ</td>
<td>R(1)5A-ZZZ</td>
</tr>
</tbody>
</table>

**A/R = alarms/restorals; T/R = tamper/restorals; O/C = openings/closings; M/A/R = miscellaneous alarms/restorals; T = test transmissions; U = user number (User 01-95); 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.**
Appendix B: UL Listed Commercial and Residential Installations

The control panel model PC1616/PC1832/PC1864 has been tested and found in compliance with the following standard:
- UL610 Central Station Burglar-Alarm Units
- UL1663 Digital Alarm Communication System Units
- UL-C5304-06 Signal Receiving Centre & Premise Burglar Alarm Control Units
- UL-C5599-04 Equipment for Fire Signal Receiving Centres and Systems
- UL-C5545-02 Residential Fire Warning System Control Units
- ORD-C1023-1974 Household Burglar-Alarm System Units

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

For UL Listed installations the minimum Bell Time-out is 15 min. for UL Commercial Burglary Installations and 5 min. for UL Home Health Care Installations.

The local control unit and the local power supply must be protected in one of the following ways:
- A system will be ON.
- The installer's code cannot arm or disarm the system
- Test system weekly
- The programmed entry time
- The programmed exit time
- Service organization name and telephone number

The installer should advise the users and note in the User's Manual:
- Service organization name and telephone number
- The programmed entry time
- The programmed exit time
- Test system weekly
- The installer's code cannot arm or disarm the system
- Fire Alarm Verification feature (Auto Verified Fire Zone type [29]) is not supported on 2-wire smoke detectors zones. This feature may be enabled for 4-wire smoke detectors after the Walk Test. Prior to exiting the walk test mode, a sensor reset must be conducted on the system, [*][7][2] to reset all latching 4-wire smoke detectors. Please refer to the smoke detector installation instructions for how to correctly test the detectors.

Overall, the system is to be protected from casual users (baby-sitters or service people). Only the One-Time Use Codes shall be given to casual users.

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

Programmable Features
- The notes in the programming sections describing the system configurations for UL/ULC listed installations shall be implemented
- Control of the Protected Premises: In order to have a UL certificated system the protected area is to be under the responsibility of one ownership and management (i.e., one business under one name). This may be a group of buildings attached or unattached with different addresses but under the responsibility of someone having mutual interest. The person of the mutual interest is not the alarm-installing company.

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

Protection of the Control Unit
- The local control unit and the local power supply must be protected in one of the following ways:
  - A system will be ON.
- There is a communication delay of 30 seconds in this control panel. It can be removed, or
- The installer should caution the user(s) not to give system information (e.g. codes, bypass methods, etc.) to casual users (baby-sitters or service people). Only the One-Time Use Codes shall be given to casual users.

User Information
- Service organization name and telephone number
- The programmed exit time
- The programmed entry time
- Test system weekly

SIA False Alarm Reduction Installations
- Minimal required system consists of one Control unit model PC1864 or PC1832 or PC1616 and any one of the following listed keypads: PK5500, PK5501, PK5508, PK5516, PK5516, PKP-LCD, PKP-ICN.
- A list of the defaults value programmed when the unit is shipped from the factory and for any other programming information refer to Appendix C: False Alarm Reduction.

The following optional subassembly modules also bear the SIA CP-01-2000 classification and may be used if desired: PC5108 Zone Expander, PC5208 PGX Output Module, PC5204 Auxiliary Power Supply and PC5400 Serial Output Module.

CAUTION
- For SIA FAR installations use only modules/devices that are listed on this page
- Fire Alarm Verification feature (Auto Verified Fire Zone type [29]) is not supported on 2-wire smoke detectors zones. This feature may be enabled for 4-wire smoke detectors zones.
- Call Waiting Cancel (Section [382], Option 4) feature on a non-Call Waiting line will prevent successful communication to the supervising station.
- All smoke detectors on the system must be tested annually by conducting the Installer Walk Test. Prior to exiting the walk test mode, a sensor reset must be conducted on the system, [*][7][2] to reset all latching 4-wire smoke detectors. Please refer to the smoke detector installation instructions for how to correctly test the detectors.

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

The control panel model PC1864/PC1832/PC1616 has also been tested and found in compliance with UL636 Standard for Holdup Alarm Units and Systems and is UL listed under the ANET category when used in conjunction with the DSC Model WS4928 Holdup switch and the compatible wireless receiver model DSC RF5132-433.

For UL listed systems containing the UL holdup switch, the Force Arm (bit 5) zone attribute for Holdup zone (type 12) shall be enabled (ON).
# Appendix C: SIA False Alarm Reduction

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

## Testing

<table>
<thead>
<tr>
<th>Testing</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>System Test: [99][6] Master Code, Option 4</td>
<td>The system activates all keypad sounders, bells or sirens for 2 seconds and all keypad lights turn on. Refer to the User Manual (part no. 29008261)</td>
</tr>
<tr>
<td>Installer Walk Test Mode: [901]</td>
<td>This mode is used to test each zone on the system for proper functionality</td>
</tr>
<tr>
<td>Alarm Communications During Walk Test [382] Opt. 2</td>
<td>Enables Communication of zone alarms while installer Walk Test is active</td>
</tr>
<tr>
<td>Walk Test End and Begin Reporting Codes [348], 1st and 2nd Entries</td>
<td>Access to the reporting codes for Walk Test Begin and Walk Test End</td>
</tr>
</tbody>
</table>
Appendix D: 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:**

<table>
<thead>
<tr>
<th>Light</th>
<th>Description</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Low Battery</td>
<td></td>
</tr>
<tr>
<td>[2]</td>
<td>Bell Circuit</td>
<td></td>
</tr>
<tr>
<td>[6]</td>
<td>RF Jam Detected</td>
<td></td>
</tr>
<tr>
<td>[7]</td>
<td>PC5204 Low Battery</td>
<td></td>
</tr>
<tr>
<td>[8]</td>
<td>PC5204 AC Failure</td>
<td></td>
</tr>
<tr>
<td>[2]</td>
<td>AC Trouble</td>
<td></td>
</tr>
<tr>
<td>[4]</td>
<td>Failure to Communicate</td>
<td></td>
</tr>
</tbody>
</table>

**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
<table>
<thead>
<tr>
<th>Trouble</th>
<th>Cause</th>
<th>Troubleshooting</th>
</tr>
</thead>
</table>
| [1] Low Battery    | Main panel battery less than 11.1VDC       | **NOTE:** If battery is new allow 1 hour for battery to charge.  
Note: This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.  
- Verify voltage measured across AC terminals is 16-18 VAC. Replace transformer if required  
- Disconnect battery wire leads  
  - Verify battery charging voltage measured across battery leads = 13.70 - 13.80 VDC  
  - Connect battery, remove AC power  
  - Verify measured voltage across battery terminals is 12.5VDC min.  |
| [2] Bell Circuit   | Bell+, Bell-...Open Circuit                | **NOTE:** This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.  
- Disconnect Bell-/Bell+ wire leads, measure resistance of wire leads  
  - Open circuit indicates break in wiring or defective siren/bell  
  - Jumper Bell+, Bell- with 1K resistor (Brown, Black, Red)  
  - Verify trouble clears  |
| [3] General System Trouble | PC5204 Output#1 Open Circuit                  | **NOTE:** This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.  
- If Output #1 is unused: Ensure that terminals O1, AUX are jumpered with 1K resistor (Brown, Black, Red)  
  - Open circuit indicates a break in the wiring  
- If Output #1 is used: Disconnect wire leads from O1, AUX terminals, measure the resistance of the wire leads  
  - Open circuit indicates break in wiring  |
| [4] General System Tamper | Tamper input on module(s) open circuit      | **NOTE:** This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.  
- Short tamper terminal to COM terminal on unused modules connected to KEYBUS (PC5100, PC5108, PC5200, PC5204, PC5208, PC5320, PC5400, PC5700)  |
| [5] Module Supervision | Panel does not communicate with module(s) on KEYBUS | **NOTE:** This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.  
- 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.  
  - View the event buffer (via DLS or LCD5500 keypad) to identify the specific module(s) in trouble  
  - To reset module supervision:  
    - Enter Program Section [902]  
    - Press [#] (wait 1 minute for panel to scan KEYBUS)  
    - Enter Program Section [903] to identify modules connected to the KEYBUS  |
| [6] RF Jam Detected | Wireless Receiver - excessive noise detected | **NOTE:** This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.  
- Check for external 433MHZ signal sources.  
  - To disable RF Jam: enable Option [7] in program section [804] subsection [90]  |
| [7] PC5204 Low Battery | PC5204 battery less than 11.5VDC           | **NOTE:** This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.  
- See [1] Low Battery above  |
| [8] PC5204 AC Failure | No AC at PC5204 AC inputs                | **NOTE:** This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.  
- Verify voltage measured across AC terminals is 16-18VAC. Replace transformer if required  |

**NOTE:** This trouble condition will not clear until the battery voltage is 12.5VDC min., under load.
<table>
<thead>
<tr>
<th>Trouble</th>
<th>Cause</th>
<th>Troubleshooting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trouble [2] AC Failure</td>
<td>No AC at panel AC input terminals</td>
<td>Verify voltage measured across AC terminals is 16-18VAC. Replace transformer if required</td>
</tr>
</tbody>
</table>
| Trouble [3] Telephone Line Trouble | Phone Line Voltage at TIP, RING on main panel less than 3VDC | - Measure the voltage across TIP and RING on the panel:  
  No phone off-hook – 50VDC (approx)  
  Any phone off-hook – 5VDC (approx)  
- Wire incoming line directly to TIP and RING  
If trouble clears, check wiring or the RJ-31 phone jack |
| Trouble [4] Failure to Communicate | Panel fails to communicate one or more events to central station | Connect a handset to TIP and RING of the control panel. Monitor for the following conditions:  
  • Continuous dial tone  
  - Reverse TIP and RING  
  • Recorded operator message comes on  
  - Verify correct phone number is programmed  
  - Dial the number programmed using a regular telephone to determine if a [9] must be dialed or if 800 service is blocked  
  • Panel does not respond to handshakes  
  - Verify the format programmed is supported by the central station  
  • Panel transmits data multiple times without receiving a handshake  
  - Verify that the account number and reporting codes are correctly programmed  
  • Contact ID and Pulse formats  
  Program a HEX [A] to transmit a digit [0]  
  • SIA format  
  Program a digit [0] to transmit a digit [0] |
| Trouble [5] Zone Fault | Press [5] to determine specific zones with a fault trouble | Open circuit is present on one or more fire zones on the main panel or zone expander  
  - Ensure fire zones have a 5.6K resistor (Green, Blue, Red) connected  
  - Remove the wire leads from Z and COM terminals and measure the resistance of the wire leads  
  - An open circuit indicates a break in the wiring or resistor not connected  
  - Connect a 5.6K resistor (Green, Blue, Red) across the Z and COM terminals. Verify the trouble condition clears  
  An open circuit is present on PGM2 being used as a 2-wire smoke detector input  
  - Ensure the correct 2.2K end-of-line resistor is connected (Red, Red, Red)  
  - Remove the wire leads from PGM2 and AUX+ terminals and measure the resistance of the wire leads  
  - An open circuit indicates a break in the wiring or no resistor connected  
  - Connect a 2.2K resistor (Red, Red, Red) across the PGM2 and AUX+ terminals. Verify the trouble condition clears  
  One or more wireless devices have not checked in within the programmed time  
  - If the trouble occurs immediately, a conflict with a hard wired zone exists:  
  - The zone being used is already assigned to a PCS108 zone expander  
  - The zone being used is assigned as a keypad zone  
  - Perform a Module Placement Test – Program Section [904] and verify the wireless device is in a good location  
  - If bad test results occur, test the wireless device in another location  
  - If the wireless device now tests good, the original mounting location is bad  
  - If the wireless device continues to give bad test results replace the wireless device  
  A short circuit is present on one or more zones with double end-of-line resistors enabled  
  - Remove the wire leads from Z and COM terminals and measure the resistance of the wire leads  
  - A short circuit indicates a short in the wiring  
  - Connect a 5.6K resistor (Green, Blue, Red) across the Z and COM terminals  
  - Verify the trouble condition clears  |
### Trouble [6] Zone Tamper

**Cause:**
- A tamper condition is present on one or more wireless devices
- An open circuit is present on one or more zones with double end-of-line resistors enabled

**Troubleshooting:**
- Perform a Module Placement Test –Section [904]
- Violate, then restore the tamper:
  - If no test result then replace wireless device
- Remove the wire leads from Z and COM terminals
- Measure the resistance of the wire leads
  - Open circuit indicates a break in the wiring
- Connect a 5.6K resistor (Green, Blue, Red) across the Z and COM terminals
- Verify the trouble condition clears

### Trouble [7] Wireless Device Low Battery

**Press [7] to toggle through specific devices with low battery trouble**

#### 1st press
- Wireless Zones

#### 2nd press
- Handheld Keypads

#### 3rd press
- Wireless Keys

**Cause:**
One or more wireless devices has a low battery

**Troubleshooting:**
- Replace battery

**NOTE:** Replacing batteries will cause a tamper. Replacing cover will restore the tamper causing the associated reporting codes to be sent to the Central Station

### Trouble [8] Loss of Clock/Date

**Cause:**
The main panel internal clock is not set

**Troubleshooting:**
To program the time and date:
- Enter [\*][6][Master Code] then Press [1]
- Enter the time and date (in military) using the following format:
  - Example. For 6:00 pm, June 29, 2010
  - Enter: [18] [00] [06] [29] [10]

---

**IMPORTANT!**
Ensure you have the following information available before contacting Customer Support

- Control Panel Type and Version, (e.g., PC1864 v4.6)

**NOTE:** Version number can be accessed by entering [\*][Installer Code][900] on any LCD keypad. This information is also located on a sticker on the Printed Circuit Board.

- List of modules connected to Control Panel, (e.g., PC5100, PC5204 etc.)
Appendix E: Template Programming

Template programming allows quick programming of the minimum functions required for basic operation. The below tables 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.

**Digit 1 selects Zone 1-8 definition options**
Digit 1 selects 1 of the following 6 options for zone definitions for the first 8 zones. A “0” in the digit 1 location indicates that the default settings for the first 8 zones are in place unless overridden. See Sections [001] to [004] on pages 30-31 for defaults.

<table>
<thead>
<tr>
<th>Option</th>
<th>Zn1</th>
<th>Zn2</th>
<th>Zn3</th>
<th>Zn4</th>
<th>Zn5</th>
<th>Zn6</th>
<th>Zn7</th>
<th>Zn8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>8</td>
</tr>
</tbody>
</table>

Refer to Section 4 for Zone definition details

**Digit 2 selects system EOL configuration options**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NC Loops</td>
<td>ON</td>
</tr>
<tr>
<td>2</td>
<td>SEOL</td>
<td>OFF</td>
</tr>
<tr>
<td>3</td>
<td>DEOL</td>
<td>ON</td>
</tr>
</tbody>
</table>

**Digit 3 selects panel communications options**

<table>
<thead>
<tr>
<th>Option</th>
<th>Programming Section</th>
<th>Phone Line 1</th>
<th>Phone Line 2</th>
<th>Programming Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Disabled</td>
<td>[380] Opt 1 OFF</td>
<td>Disabled</td>
<td>[380] Opt 1 OFF</td>
</tr>
<tr>
<td>2</td>
<td>SIA automatic Reporting Codes enabled</td>
<td>[350] 1st Phone # [04]</td>
<td>SIA automatic Reporting Codes enabled</td>
<td>[350] 2nd Phone # [XX]</td>
</tr>
<tr>
<td>3</td>
<td>Contact ID Reporting Codes enabled</td>
<td>[350] 1st Phone # [03]</td>
<td>SIA automatic Reporting Codes enabled</td>
<td>[350] 2nd Phone # [XX]</td>
</tr>
<tr>
<td>4</td>
<td>SIA automatic Reporting Codes enabled</td>
<td>[350] 1st Phone # [04]</td>
<td>Residential Dial Enabled</td>
<td>[350] 2nd Phone # [06]</td>
</tr>
<tr>
<td>5</td>
<td>Contact ID Reporting Codes enabled</td>
<td>[350] 1st Phone # [03]</td>
<td>Residential Dial Enabled</td>
<td>[350] 2nd Phone # [06]</td>
</tr>
<tr>
<td>6</td>
<td>Contact ID Reporting Codes enabled</td>
<td>[350] 1st Phone # [03]</td>
<td>Contact ID Reporting Codes Enabled</td>
<td>[350] 2nd Phone # [03]</td>
</tr>
</tbody>
</table>

**Digit 4 selects reporting code configurations**

<table>
<thead>
<tr>
<th>Option</th>
<th>Common Group</th>
<th>Selected Troubles</th>
<th>Openings/ Closings</th>
<th>Zone Restorals</th>
<th>DLS/Installer Lead In/Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Common Group**

<table>
<thead>
<tr>
<th>Description</th>
<th>Phone 1</th>
<th>Phone 2</th>
<th>Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set all Reporting Codes to automatic</td>
<td>[320] - [349], [601] - [608] FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alarm/Restore call directions enabled</td>
<td>✓</td>
<td>[351][1] ON, [2] OFF</td>
<td></td>
</tr>
<tr>
<td>Maintenance Call Directions enabled</td>
<td>✓</td>
<td>[375][1] ON, [2] OFF</td>
<td></td>
</tr>
</tbody>
</table>
Selected Troubles

<table>
<thead>
<tr>
<th>Trouble</th>
<th>[345] Alarms</th>
<th>[346] Restoral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>FF</td>
<td>FF</td>
</tr>
<tr>
<td>AC Failure</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>Bell Circuit</td>
<td>FF</td>
<td>FF</td>
</tr>
<tr>
<td>Fire, Alarm</td>
<td>FF</td>
<td>FF</td>
</tr>
<tr>
<td>Aux PS</td>
<td>FF</td>
<td>FF</td>
</tr>
<tr>
<td>TLM</td>
<td>00</td>
<td>FF</td>
</tr>
<tr>
<td>General System</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>General System Supervisory</td>
<td>FF</td>
<td>FF</td>
</tr>
<tr>
<td>FF = Communicate in automatic format, 00 = Disabled</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Openings & Closings

<table>
<thead>
<tr>
<th>Users</th>
<th>CLOSINGS, Residential Dial Reporting codes</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-8</td>
<td>51 52 53 54 55 56 57 58</td>
<td>[339]</td>
</tr>
<tr>
<td>9-16</td>
<td>61 62 63 64 65 66 67 68</td>
<td>[339]</td>
</tr>
<tr>
<td>17-24</td>
<td>71 72 73 74 75 76 77 78</td>
<td>[340]</td>
</tr>
<tr>
<td>25-32</td>
<td>81 82 83 84 85 86 87 88</td>
<td>[340]</td>
</tr>
<tr>
<td>33-40</td>
<td>FF FF FF FF FF FF FF 98</td>
<td>[601]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Users</th>
<th>OPENINGS, Residential Dial Reporting codes</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-8</td>
<td>11 12 13 14 15 16 17 18</td>
<td>[342]</td>
</tr>
<tr>
<td>9-16</td>
<td>21 22 23 24 25 26 27 28</td>
<td>[342]</td>
</tr>
<tr>
<td>17-24</td>
<td>31 32 33 34 35 36 37 38</td>
<td>[343]</td>
</tr>
<tr>
<td>25-32</td>
<td>41 42 43 44 45 46 47 48</td>
<td>[343]</td>
</tr>
<tr>
<td>33-40</td>
<td>FF FF FF FF FF FF FF 98</td>
<td>[605]</td>
</tr>
</tbody>
</table>

Enable Opening/Closings call directions for Phone 2 [367]

Zone Restorals

<table>
<thead>
<tr>
<th>Zones</th>
<th>Alarm Restoral Reporting Codes</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-64</td>
<td>00 00 00 00 00 00 00 00</td>
<td>[324]-[327]</td>
</tr>
<tr>
<td>00 = Disabled</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DLS/Installer Lead IN/OUT

<table>
<thead>
<tr>
<th>Miscellaneous Maintenance Reporting Codes</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEF DEF DEF 00 00 DEF DEF DEF DEF DEF 00 00</td>
<td>[347]</td>
</tr>
<tr>
<td>DEF = No change to default values, 00 = Disabled</td>
<td></td>
</tr>
</tbody>
</table>

- Digit 5 selects DLS connection options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Programming Section</th>
<th>DLS Connection/Call back setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>[401] Option 1 OFF</td>
<td>Double Call Disabled, Call Back Disabled</td>
</tr>
<tr>
<td></td>
<td>Option 3 OFF 0</td>
<td>Number of rings to answer set to 0</td>
</tr>
<tr>
<td>2</td>
<td>[401] Option 1 ON</td>
<td>Double Call Enabled, Call Back Disabled</td>
</tr>
<tr>
<td></td>
<td>Option 3 OFF 9</td>
<td>Number of rings to answer set to 9</td>
</tr>
<tr>
<td>3</td>
<td>[401] Option 1 ON</td>
<td>Double Call Enabled, Call Back Enabled</td>
</tr>
<tr>
<td></td>
<td>Option 3 ON 9</td>
<td>Number of rings to answer set to 9</td>
</tr>
</tbody>
</table>
Appendix F: Communicator Format Options

This section requires two 2-digit entries to set the communications 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.

<table>
<thead>
<tr>
<th>Entry</th>
<th>Communication Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>20 BPS, 1400 Hz handshake</td>
</tr>
<tr>
<td>02</td>
<td>20 BPS, 2300 Hz handshake</td>
</tr>
<tr>
<td>03</td>
<td>DTMF CONTACT I.D.</td>
</tr>
<tr>
<td>04</td>
<td>SIA FSK</td>
</tr>
<tr>
<td>05</td>
<td>Pager</td>
</tr>
<tr>
<td>06</td>
<td>Residential Dial</td>
</tr>
<tr>
<td>07</td>
<td>10 BPS, 1400 Hz handshake</td>
</tr>
<tr>
<td>08</td>
<td>10 BPS, 2300 Hz handshake</td>
</tr>
<tr>
<td>09</td>
<td>For Future Use</td>
</tr>
<tr>
<td>10</td>
<td>For Future Use</td>
</tr>
<tr>
<td>11</td>
<td>For Future Use</td>
</tr>
<tr>
<td>12</td>
<td>For Future Use</td>
</tr>
<tr>
<td>13</td>
<td>For Future Use</td>
</tr>
</tbody>
</table>

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 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] 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].

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.

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 [FF] the panel will send the programmed reporting code.
3. Bypassed zones will not be identified when partial closing the system.

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]

**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].

**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**.

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:


To prevent the panel from reporting an event program the reporting code for the event as [00] or [FF].
SAFETY INSTRUCTIONS FOR SERVICE PERSONS

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.
Limited Warranty

Digital Security Controls warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls shall, at its option, repair or replace any defective part, or replace the entire product at its factory, at no charge for labor for labor or materials. Failure to provide proof of purchase may result in the warranty period expiring or being voided, whichever is sooner. The original purchaser must promptly notify Digital Security Controls in writing that there is a defect in material or workmanship. This warranty does not apply to software and all software products are sold and licensed under the terms of the software license agreement included with your product. This warranty does not cover: selection, installation, operation and maintenance of any products purchased from DSC. Custom products are only warranted to the extent that they do not function properly. In such events, the user will be responsible for the replacement costs. Digital Security Controls does not warrant any compensation related to the use of the product.

International Warranty

This warranty applies for the entire warranty period and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) and of all other obligations or liabilities on the part of Digital Security Controls. Digital Security Controls is not liable for any incidental damages arising from the use of the product and the resulting loss of profits, loss of data, impeded use, or any indirect, unexpected, special, or consequential damages caused by any defect in material or workmanship, including loss of data or other economic interest or the cost of repairing or replacing the product or any part thereof. Digital Security Controls does not warrant any computer compatible software or any software product included with this product. Digital Security Controls does not warrant any compensation related to the use of the product.

Disclose of Warranties

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. This warranty is void if for any reason the warranty card or other warranty documentation is not fully completed and mailed. Digital Security Controls reserves the right to nullify the warranty if the installation or maintenance work is not performed by a Digital Security Controls authorized dealer or installer. Digital Security Controls is not liable for any incidental damages arising from the use of the product and the resulting loss of profits, loss of data, impeded use, or any indirect, unexpected, special, or consequential damages caused by any defect in material or workmanship, including loss of data or other economic interest or the cost of repairing or replacing the product or any part thereof. Digital Security Controls does not warrant any computer compatible software or any software product included with this product. Digital Security Controls does not warrant any compensation related to the use of the product.
**FCC COMPLIANCE STATEMENT**

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

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

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

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

**IMPORTANT INFORMATION**

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

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>US:</th>
<th>REN:</th>
<th>USOC Jack:</th>
</tr>
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<tbody>
<tr>
<td>PC1864 Product Identifier</td>
<td>F53AL01BPC1864</td>
<td>0.1B</td>
<td>RJ-31X</td>
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<td>F53AL01BPC1614</td>
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<td>RJ-31X</td>
</tr>
</tbody>
</table>

**Telephone Connection Requirements**

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

**Ringer Equivalence Number (REN)**

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

**Incidence of Harm**

If this equipment PC1864/PC1832/PC1616 causes harm to the telephone network, the Telephone Company may require you to disconnect the equipment until the problem is solved. This equipment is of a type that is not intended to be repaired by the end user.

**INDUSTRY CANADA STATEMENT**

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

**NOTICE:** The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface is depicted in the figure below. If you have any questions concerning these instructions, you should consult your telephone company or a qualified installer about installing the RJ-31X jack and alarm dialing equipment for you.