

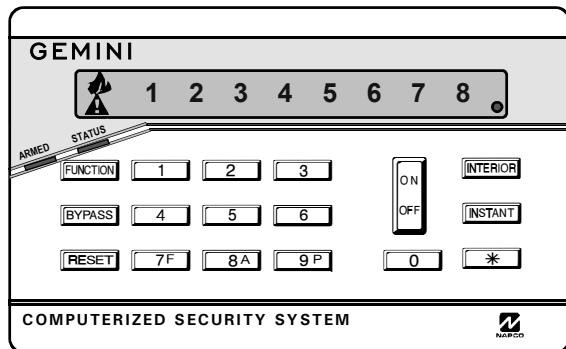


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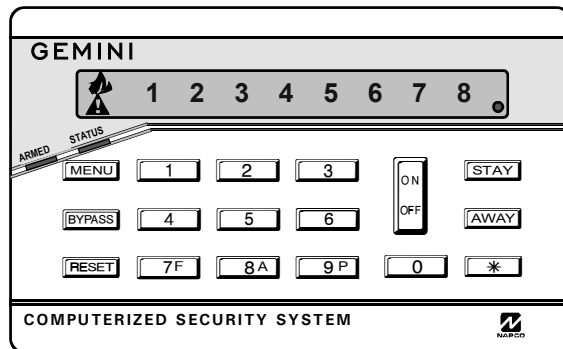
# GEM-P801 Control Panel/Communicator

## For use with the GEM-RP8 or the GEM-K800 Keypads

### Installation Instructions



*For use with the GEM-RP8 Keypad*



*For use with the GEM-K800 Keypad*

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## General Information

The GEMINI GEM-P801 control panel provides up to 6 hardwired/wireless zones, a 2-wire fire zone and 2 wireless only zones. Up to eight 4-digit user codes can be programmed. Ambush, when selected, uses User 8 code as an Ambush code.

The GEM-P801 is wireless ready. When used with a GEM-RECV-XP8 receiver, the control panel can support up to 8 wireless zones, 4 wireless smoke detectors and 4 Keyfobs.

The GEM-K800 keypad provides complete control of the GEM-P801 control panel. Information on system status, bypassed zones, system troubles etc. can be viewed at the keypad.

The control panel can be easily and quickly programmed from the keypad. The panel can also be locally or remotely downloaded using PCD-Windows Version 5.0 or later software and a PCI2000/3000 interface or PCL2000B local Download cable. See Downloading Section (pg. 5) for more information.

## GEM-P801 Features

### Control Panel

- 8 Zones (6 Hardwired/Wireless + 2 wireless)
- 2-wire Fire Zone
- 3 Keypad Panics
- Wireless Ready
- Bell Supervision
- Line Cut Detection
- Answering Machine Override (Second Call)
- 50 Event Log

### Communicator

- 2 Telephone Numbers
- Backup Reporting
- Pager Format
- Point ID Format
- Individually Report 8 Users
- Opening after Alarm Report (Cancel Code)
- Conditional Closing Report

**IMPORTANT NOTE** This manual supports keypad programming with both the older GEM-RP8 and the new GEM-K800 "K Series" keypad (which offers new STAY / AWAY / MENU and ENTER buttons). While this manual only depicts the GEM-K800 keypad buttons, either keypad may be used. **Note:** For consistency, it is recommended that all keypads either be all "classic" or all "K Series"—both keypad types should not be used in one alarm system. Program Mode is the same for both keypads; only the button names have changed, as follows:

The  /  buttons and the  /  buttons operate identically (in Program Mode) for both keypads.

The  /  ("NEXT/YES") buttons operate identically (in Program Mode) for both keypads.

The  /  ("PRIOR/NO") buttons operate identically (in Program Mode) for both keypads.

# Specifications

## Current & Voltage Ratings

Alarm Output ----- Burg: 12 VDC, 2A (max.)  
Fire: 12 VDC, 65 mA

Output Current Limiting ----- Burg/Fire: 2.25 A  
AUX Power: 750 mA

Residential Burglary (4 Hour Standby)  
Combined Standby Current: ----- 500 mA  
Bell Output: ----- 2 A  
(Using Rechargeable 12 VDC 4 AH BATTERY, minimal requirement)

Residential Fire (24 Hour Standby)  
Combined Standby Current: ----- 120 mA  
Bell Output: ----- 95 mA<sup>§</sup>  
(Using Rechargeable 12 VDC 7 AH BATTERY, minimal requirement)

<sup>§</sup>In NFPA Household Fire Installations, only a single siren or bell can be used on this bell circuit.

## Transformer and Battery

Required Transformer: ----- NAPCO TRF12 OR BASLER  
16.5 VAC 20VA

Required Battery: ----- 12V 4 AH or 7 AH Rechargeable  
Change Battery every 5 years or as required

Maximum Charging Current: ----- 165 mA

Maximum Input Current: ----- 2.58 A

## Loop Characteristics

Loop Voltage: ----- 5 Volts

Loop Current : ----- 1.1mA

Loop Resistance: ----- 300Ω per zone (max.)

## Device Specifications

Max # keypads: ----- 4, GEM-K800/GEM-RP8 current = 65 mA

Max # of receivers: ----- 2, GEM-RECV-XP8  
current = 65 mA each

Max # of compatible  
2-wire smoke detectors : ----- 10

Max Keypad wire length : ----- 1000' total wire length

## Miscellaneous

Housing Dimensions : ----- 11" x 12<sup>1</sup>/<sub>8</sub>" x 3"  
(28 x 30.8 x 7.6) HxWxD

Shipping Weight: ----- GEM-P801 5.5 lbs.

Operating Temperature: ----- 0-49°C (32-120°F)

**Warning:** The use of non-NAPCO wireless devices with this control panel has not been evaluated by UL and voids the UL listing. In addition, the performance of these devices can not be guaranteed as compatible with NAPCO control panels.

## UL Compatible Smoke Detectors

GEM-P801 Compatible Smoke Detectors **(Approved by UL)**

| Mfg                      | 4-Wire<br>Smoke Detector |          | 2-Wire<br>Smoke Detector |                               | Smoke Detector<br>Base         |
|--------------------------|--------------------------|----------|--------------------------|-------------------------------|--------------------------------|
| <b>NAPCO</b>             | FW-4                     |          | FW-2                     | FW-2S<br>(FW-RM1<br>required) |                                |
| <b>Sentrol</b>           | 449AT                    | 449CSST  | 712U                     |                               | 701U<br>702U<br>702RE<br>702RU |
|                          | 449C                     | 449CLT   | 722U                     |                               |                                |
|                          | 449CRT                   | 449CSLT  | 721UT                    | 721UT                         |                                |
|                          | 449CST                   | 449CTE   | 732U                     | 731U                          |                                |
|                          | 449CSRT                  | 741U     | 711U                     |                               |                                |
|                          | 449CSRH                  | 742U     | 721U                     |                               |                                |
| <b>System<br/>Sensor</b> | 1112                     | 2112T    | 2100                     |                               |                                |
|                          | 2112                     | 2112TSRB | 2100T                    | 1100                          |                                |

## LISTINGS AND APPROVALS

UL HOUSEHOLD FIRE AND BURGLARY WARNING SYSTEM CONTROL UNIT  
STANDARDS # 1023, 985.

SECURITY INDUSTRY ASSOCIATION (SIA) FALSE ALARM REDUCTION STANDARD CP-01.

CALIFORNIA STATE FIRE MARSHAL (CSFM) - CONTROL UNIT (HOUSEHOLD) # 7187-  
0992:126.

VERIFIED TO COMPLY WITH F.C.C. PART 15 AS CLASS B : DIGITAL DEVICE.

### EUROPEAN E.M.C. REGULATIONS CE CERTIFICATION

HARMONIZED STANDARDS: EN50081-1 AND EN50082-1

EC DIRECTIVES: 89/336/EEC, ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

## Ordering Information

|               |                                                                           |
|---------------|---------------------------------------------------------------------------|
| GEM-P801      | 8 zone Control Panel with 2-wire Fire<br>(6 Hardwire/Wireless+2 wireless) |
| GEM-K800      | Keypad                                                                    |
| OI302 / OI219 | Operating Instructions for Keypads GEM-K800 / GEM-RP8                     |
| WI1090        | Programming Instructions GEM-P801                                         |

## Optional Accessories

|               |                                                                                                 |
|---------------|-------------------------------------------------------------------------------------------------|
| FT2200        | End of Line Relay/Resistor Supervisory Module                                                   |
| GEM-RECV-XP8: | *Wireless Receiver                                                                              |
| GEM-TRANS2:   | Window/Door Transmitter                                                                         |
| GEM-KEYF:     | Keyfob Transmitter                                                                              |
| GEM-WP:       | Wireless Waterproof Panic Button                                                                |
| GEM-SMK:      | Wireless Smoke Detector                                                                         |
| GEM-HEAT:     | Wireless 135°F / Rate of Rise Heat Detector                                                     |
| GEM-PIR:      | Wireless PIR                                                                                    |
| GEM-PIRPET:   | §Wireless Pet-Immune PIR                                                                        |
| GEM-DT:       | Wireless Dual-Technology Sensor                                                                 |
| GEM-GB:       | Wireless Glass-Break Detector                                                                   |
| RB1000:       | §Single Form C Relay Board                                                                      |
| Veriphone:    | §Audio Verification Module                                                                      |
| PCD-Windows:  | §Downloading Software for IBM Compatible PC<br><i>Must be PCD-Windows Version 5.0 or later.</i> |
| PCI2000/3000: | §Downloading Interface for IBM Compatible PC (includes<br>PCL2000B Local Download cable)        |
| PCL2000B:     | Local Download cable                                                                            |

\* Supports up to 8 zones, 4 Key Fobs, 4 Smoke Detectors

§ Not evaluated by UL.

**Note:** Wireless and Access Features have not been evaluated by UL. **Note:** No  
unattended downloading is allowed by UL.

## Programming the Panel

Refer to GEM-P801 Programming Instructions (W11090).

The GEM-P801 is factory programmed with all features required by the SIA False Alarm Reduction standard CP-01, and this CP-01 program can be reloaded into the panel by defaulting the panel. In this manual and in W11090, the "+" symbol indicates the features that exist in the panel that are specifically required by CP-01.

**Note:** The communicator features are enabled but require a telephone number, account number, correct reporting format and report codes (if required by the format) or the panel will generate a "fail to communicate" trouble. If the panel is intended for local use, only remove the 1 from programming location [45-1] to disable the communicator.

## Defaulting the Panel

1. Remove power from the panel.
2. Remove all wiring from terminal 19 (PGM) and terminal 3.
3. Connect terminal 19 (PGM) to terminal 3.
4. Apply power to the GEM-P801 control panel.
5. After a few seconds the ARMED, READY and **▲**SYSTEM TROUBLE LEDs will flash.
6. The keypad will beep 3 times indicating the panel default values have been loaded.
7. Turn off power and remove wiring between terminal 19 (PGM) and terminal 3.
8. Re-install original wiring for terminal 19 (PGM) and terminal 3 then re-apply power.

**Note:** Any programming in *Dealer Options 1* [96] and *Dealer Options 2* [97] will not be defaulted. If *Dealer Code Lockout* has been programmed the panel will not default the Dealer Code.

## Downloading

The GEM-P801 panel can be download/uploaded with PCD-Windows Version 5.0 (or later) software using the Ring Method, Answering Machine Override (Second Call) or the Keypad Connect  6 method of downloading. The panel can also be automatically downloaded/uploaded using the PCPreset utility. For Site Initiated Downloaded, see *Auto Download ID Number* [93].

## Local Downloading

Wire as shown in Figure 1. Use the power up or  6 method of establishing a connection. The power up method is recommended if the panel is attempting to report.

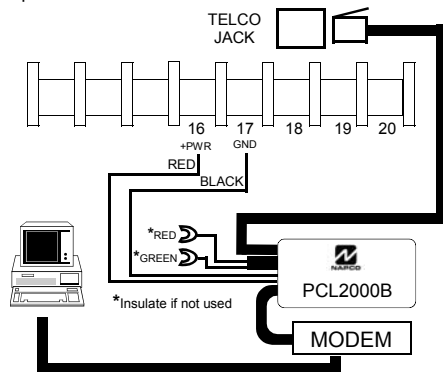


FIGURE 1 LOCAL DOWNLOAD

## Remote Downloading

Wire as shown in Figure 2. The panel can be remotely download/uploaded using any one of the

following methods:

1. The Keypad Connect  6 method
2. Ring method
3. Answering Machine Override (Second Call)
4. Site-Initiated (PCPreset &  6)
5. Automatic Downloading (Using PCPreset)

**Note:** Unattended downloading from a computer is not allowed for Fire Alarm or UL installations.

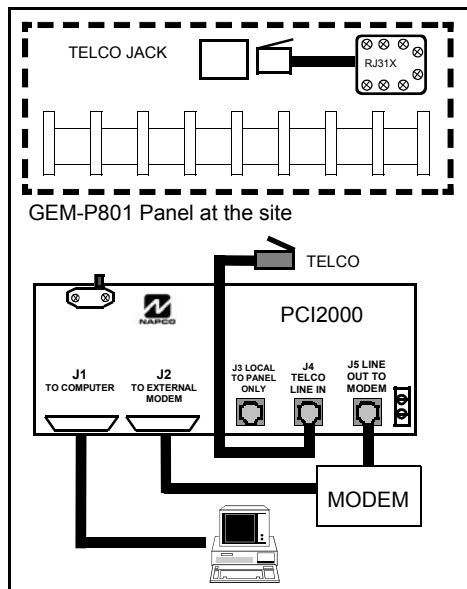


FIGURE 1 REMOTE DOWNLOAD

## Installation

### Mounting the Panel

Mount the Panel close to an unswitched AC source, a cold-water pipe ground, and a telephone line connection.

### Mounting the Keypad

A keypad should be located near an exit/entry door. To remove the keypad from the backplate, insert a small screwdriver into the slots at the bottom of the keypad. Pull up on the screwdriver to pop off the cover.

Up to 4 keypads can be connected on individual wire runs with #22 AWG wire with a maximum total cable length of 1000 feet. Each keypad draws approximately 65 mA.

| Keypad Wire Color | Control Panel Terminal |
|-------------------|------------------------|
| RED               | 12 (+PWR)              |
| BLACK             | 13 (GND)               |
| GREEN             | 14 (GREEN)             |

**TABLE 1** KEYPAD WIRING

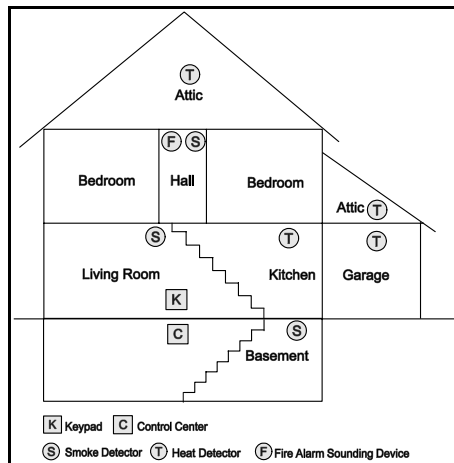
### Typical Fire Installation

(Where permitted by local codes)

Install smoke detectors outside each sleeping area and on each floor, including the basement. Install the living room and basement smoke detectors near the stairway of the next upper level. For increased protection, additional

detectors should be installed in areas other than those required, such as the dining room, bedrooms and utility room. Heat detectors, rather than smoke detectors, are recommended in kitchens, attics, and garages due to conditions that may result in false alarms and improper operation.

Refer to NFPA Standard 74 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269) for additional information, including proper mounting methods.



**FIGURE 3** Typical Fire Installation

## Wiring

### Grounding the Panel

Connect the control-panel EARTH GROUND screw through a No. 16 AWG or larger wire to a metal cold-water pipe. Do not use a gas pipe, plastic pipe or AC ground connections. Use at least #16 AWG wire. Connect a wire with a ground lug crimped or soldered onto one end and connect it to the EARTH GROUND screw in the cabinet.

### AC Power and Battery Wiring

Complete all wiring before connecting the battery or AC Power. Do not plug the transformer into a switched outlet.

### Telephone Wiring

Wire as shown in the wiring diagram in the back of this manual.

### WARNING

The FCC restricts the use of this equipment on certain telephone lines. Read the FCC statement on the back of this manual to ensure compliance.

## Burglary Zone Wiring

The GEM-P801 provides 6 true hard-wired, End-Of-Line Resistor terminated burglary zones. Wire zones as shown in the wiring diagram (pg. 30). All resistors must be installed, even if the zone is not used. If required, the feature No End Of Line Resistor may be programmed, in which case a direct short across the zone will cause the zone to set up. (NOTE: Not for UL applications) Program the zone as a *No EOL Resistor Zone* [06].

If necessary, use the voltage chart below to verify proper voltages. These values represent the DC voltage of the zone while in the indicated state with reference to the the zone's respective ground terminal.

|                               |       |
|-------------------------------|-------|
| Zone Normal (EOL across zone) | 2.5 V |
| Zone shorted                  | 0 V   |
| Zone Open                     | 5 V   |

**TABLE 3** VOLTAGE AT TERMINALS 3&5, 6&8, 9&11

## Fire Zone Wiring

Wire the Fire Zone as shown in the Wiring Diagram in the back of this manual. An EOL resistor must be installed, even if the Fire Zone is not used.

|                  |       |
|------------------|-------|
| Fire Zone Normal | 13.0V |
| Fire Trouble     | 13.8V |
| Fire             | 0.0 V |

**TABLE 4** VOLTAGE AT FIRE ZONE (Terminals 12&13)

## PGM Wiring

The PGM (Terminal 19) is a switched negative output that is activated through programming option(s) that have been selected in programming blocks [08], [23] - [25]. Connect the device controlled by the PGM between +PWR and the PGM terminal. (maximum load of 50 mA).

The PGM output is limited on the number of features that can be programmed simultaneously, such as PGM Access.

## Keypad Operation

Keypad zone LEDs indicate zone status. ARMED, STATUS and ▲SYSTEM LEDs provide system status. The keypad sounder provides feedback beeps for correct and incorrect entries.

## Keypad Sounder

### 3 QUICK BEEPS

Panel Armed (System ON)  
Chime ON  
Fault Find Mode ON  
Keypad Sounder ON  
Zone Bypassed

### 6 QUICK BEEPS

Panel Disarmed (System OFF)  
Chime OFF  
Fault Find Mode OFF  
Keypad Sounder OFF  
Zone Un-Bypassed

### 1 SECOND - STEADY TONE

Incorrect Code Entered  
Invalid key entry

### 4 LONG BEEPS (PRIORITY CONDITION)

1. Entering an Arm Code with a faulted zone (Not an Auto-Bypass Reentry Zone).
2. Entering an Arm Code when the Bell or PGM is ON (Bell and PGM will turn OFF).
3. Arming with the Fire LED ON - reset required. Press the  key.

## Keypad LEDs

### ARMED LED DEFINITION

|               |             |
|---------------|-------------|
| Armed         | ON          |
| Instant Mode  | Rapid Flash |
| Zone in Alarm | Flashing    |

### STATUS LED DEFINITION

|                   |     |
|-------------------|-----|
| Ready to be Armed | ON  |
| Zone faulted      | OFF |

### ▲ TROUBLE LED DEFINITION

|                   |          |
|-------------------|----------|
| AC Failure        | Flashing |
| System Trouble(s) | ON       |

### ▲ FIRE LED DEFINITION

|             |          |
|-------------|----------|
| Fire Alarm  | Flashing |
| Fire Memory | ON       |

### AC LED DEFINITION

|            |     |
|------------|-----|
| AC Present | ON  |
| AC Failure | OFF |

### ZONE LED DEFINITION

|               |            |
|---------------|------------|
| Faulted Zone  | ON         |
| Bypassed Zone | Slow Flash |
| Zone in Alarm | Flashing   |

## Panel Operation

### Arming (System ON)

Before arming the system close all protected zones (unless programmed as Auto-Bypass Reentry Zones). Enter a 4-digit Arm/Disarm code, followed by the **[ENTER]** key, the keypad will provide a feedback beep for each key pressed. If a valid Arm/Disarm code is entered, the keypad will beep 3 times. If an incorrect Arm/Disarm code is entered, the keypad will sound a 1-second tone indicating an incorrect entry.

### Arming without Entry Delay (Instant Mode)

When arming, press the **[STAY]** key to eliminate the entry delay. The ARMED LED will flash rapidly to indicate the panel is in Instant Mode. If an Exit/Entry Zone is tripped while the panel is in Instant Mode the panel will go into alarm immediately.

### Arming/Disarming with a Keyfob

The system can be armed by pressing the **[ON]** key, and disarmed by pressing the **[OFF]** key on the Keyfob. Zones programmed as *Exit/Entry Follower Zones* can be bypassed when the **[A1]** or **[A2]** keys on the Keyfob [81-84] have been programmed for **Interior** [8]. Zones programmed as *Exit/Entry Follower Zones* can be un-bypassed when the **[A1]** or **[A2]** keys on the Keyfob have been programmed for **Full Set**

**System** [7]. To arm the system with all zones protected press the **[ON]** key. Press and hold the **[A1]** or **[A2]** key for 2 seconds to fully set the system (The LED on the Keyfob indicate the Keyfob has transmitted the signal). Program *Keyfob/Keyswitch Chirp* [23-4] for an audible indication of system arming and disarming.

### Arming/Disarming with a Keyswitch

The system can be armed/disarmed by using a momentary Keyswitch [26-1] and wired to **Zone 6** in series with resistor with a normally closed switch. Program *Keyfob/Keyswitch Chirp* [23-4] for an audible indication of system arming and disarming. To convert keyswitch operation from Normally Closed style to Normally Open, program [27-1] Keyswitch Polarity.

#### NOTE:

Faulted Keyswitch or silent 24 hour zone normally do not display at the keypad. If a silent 24 hour zone or Keyswitch is faulted at the time of arming the faulted zone will display only while the priority sound is ON. Keyswitch Arm with No End of Line Resistor programmed; must program [06-6] No End-of-Line Resistor for Keyswitch Zone 6 and must not program [27-1] Keyswitch Polarity.

### Arming Instant with a Keyfob

The panel can be ARMED INSTANT when the [A1] or [A2] keys on the Keyfob [81-84] have been programmed for **Instant** [8]. To arm the system with Instant protection press the [ON] key, then press and hold the [A1] or [A2] key for 2 seconds to arm the panel with INSTANT protection.

## Disarming (System OFF)

After entering the premises through an Exit/Entry Zone, the keypad will sound the Entry Delay Tone. Enter a valid Arm/Disarm code, then press . If a valid Arm/Disarm code is

entered, the keypad will beep 6 times, indicating the panel has been disarmed. The red Armed LED will go out. If an incorrect Arm/Disarm Code is entered, the keypad will sound a 1-second tone, indicating incorrect entry. Press  and re-enter the code.

## Disarming after an Alarm (Alarm Memory)

The armed LED and the zone(s) that caused the alarm will be flashing. Disarm the panel. The system is currently not detecting zone faults or displaying system trouble. The zone(s) that caused the alarm will continue to flash. The STATUS and  SYSTEM TRBL LEDs are out indicating:

The system is displaying **Alarm Memory**.

Press  to clear Alarm Memory.

## Bypassing

### Automatic Bypassing

**Note:** Automatic Bypassing has not been evaluated by UL

### Home/Away with Delay Zones

This zone type has the following operation depending on whether an *Exit/Entry Zone* has been violated during the *Exit Delay* time.

## Home

### *Exit/Entry Zone* is not violated

*Zones selected as Home/Away with Delay Zones* will be bypassed automatically.

### Away with Delay

#### *Exit/Entry Zone* is violated

*Zones selected as Home/Away with Delay Zones* will have a fixed 20-second entry delay when violated before an *Exit/Entry Zone*.

**Return to FULL SET SYSTEM (no interiors bypassed) after having been Full Set System with Home/Away with Delay (No exit causing interiors bypassed)**

### From the Keypad

Press   to return protection to *Home/Away with Delay Zones* that have been automatically bypassed. Three minutes are allowed to walk through and *Exit/Entry Follower Zones*.

### Using A Keyfob (GEM-KF)

All zones in the system can be armed regardless of the state of the *Exit/Entry Zone* when arming with a Keyfob and using an AUX key programmed as **Full Set System**. Press [ON] and press and hold the [A1] or [A2] keys for 2 seconds when leaving the premises. All zones, including *Home/Away Zones* are armed.

## Bypassing a zone

Press , then the zone number to be bypassed. While the panel is DISARMED, the bypassed zone LED will flash slowly; indicating the zone has been bypassed. While the panel is ARMED, the bypassed zones will only be displayed if the *Display Bypassed* [21-3] option has been selected.

### Unbypassing a zone (Disarmed only)

Press the  key then the number of the zone to be unbypassed.

### Group Bypass (Interior Bypass)

Press the  key to Bypass all *Exit/Entry Follower Zones* [02] with or without *Home/Away Zones* [01].

### Using A Keyfob (GEM-KF)

Hold the [A1] or [A2] key on the Keyfob to Bypass all *Exit/Entry Follower Zones* [02] with or without *Home/Away Zones* [01].

## User Program Mode

To prevent the loss of the User 1 Code, the panel default program includes *User 1 Code Lockout* [96-2].

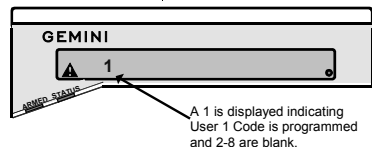
To change the User 1 Code from its default value of **1234**, program the 4-digit User 1 Code through Dealer Programming [95]. User 1 Arm/Disarm code is used to program User Codes 2 - 8. By default, the User 1 code cannot be re-programmed by the user.

If it is necessary to allow the user to re-program the User 1 code, it can be changed through downloading or Dealer keypad programming. From Dealer Program Mode, change the *User 1 Code Lockout* ([96-2] LED=OFF) to disabled.

## Entering User Program Mode

1. Enter **[MENU] [8A]**
2. Enter User 1 Code (**[1] [2] [3] [4]**)  
(Default)

3. Press **[ON]** → ARMED, STATUS AND ▲SYSTEM TROUBLE LED's WILL FLASH.



| Zone LED | Meaning                                     |
|----------|---------------------------------------------|
| OFF      | User Arm/Disarm Code not programmed         |
| Flashing | User Arm/Code is currently being programmed |
| Steady   | User Arm/Disarm Code has been programmed    |

**TABLE 5 ZONE LED DEFINITION-USER PROGRAM MODE**

While in User Program Mode, the **Armed, Status** and **▲System Trouble** LEDs will continue to flash, follow the example below to program User 2's code to 1923.

## User Mode Programming Example:

1. Press **[2]**, Zone 2 LED will Flash
2. Enter **[1] [9P] [2] [3]**, Zone 2 LED will continue to flash until the 4th digit is entered. The keypad will beep 4 times confirming a valid entry (Zone LED steady).

## Deleting a User Code

Press the number of the User to be deleted, the zone LED will be flashing indicating that the user has been selected. Press the **[AWAY]** key, the LED associated with the user will now be OFF.

## Exiting User Program Mode

To exit User Program Mode press **[RESET]**.

# GEM-P801 Commands

## User Commands

### [MENU] [1] Bell Test

While disarmed, enter this command to turn on the Bell, keypad sounder and keypad LEDs for 2 seconds. The battery is tested during a Bell Test, and automatically every \*24 hours to ensure proper battery operation under load. The Alarm output requires a battery in order to supply the specified output. If the battery cannot sustain the load, a low battery indication will be

displayed. A battery test is also performed on power-up after a 3 minute delay.

\*A battery test occurs every 4 hours when *Household Fire* [96-3] has been selected.

### [AWAY] Easy Arm AWAY

While disarmed, press and hold this key to arm the panel. To disarm the panel a valid Arm/Disarm code must be entered. Requires *Easy Exit/Easy Arm* [21-2] to be enabled.

### [STAY] Easy Arm STAY

While disarmed, press and hold to bypass all *Exit/Entry Follower Zones* with or without *Home/Away Zones*.

### [STAY] Instant

Press and hold before or after arming to remove the entry delay on *Entry/Exit Zones*. The keypad ARMED LED will flicker rapidly. Faulting an *Exit/Entry Zone* will result in an immediate alarm.

### [MENU] [5] Chime ON/OFF

Enter this command to turn chime ON/OFF. The Keypad will chime on any zone that has not been selected as an *Exit/Entry Follower Zone*, *Home/Away with Delay Zones*, or *24 Hour Zone*.

### [MENU] [8A] +User 1 Code-(User Program Mode)

See previous section for information about entering User Program Mode.

### **Keypad Sleep Mode ON/OFF**

Enter this command to turn the keypad sounder ON/OFF. When the keypad is in Sleep mode all keypad sounds for this keypad will be silenced except for keypad feedback beeps and Keypad Sounder on Alarm.

### **User Commands - Optional**

#### **Easy Exit**

If enabled in Dealer programming, enter this command while the panel is Armed to allow 3 minutes to exit the premises through *Exit/Entry* and *Exit/Entry Follower Zones*. Program Easy Arm/Easy Exit [22-2].

#### **Access on PGM**

If enabled in Dealer programming, enter this command to activate the PGM output (Terminal 19) for 5 seconds. **Note:** Program Access Output [23-2] cannot be programmed with other PGM features.

### **Dealer Commands**

#### **Keypad Connect Download**

(Programming Required)

Establish a connection between the PCD-Windows phone line and the Control Panel phone line. When ready, tell the installer to arm, then disarm. Then enter   within 4 seconds in order to establish a connection. Phone connection to installer will go "dead" as downloader and panel connect.

### **Fault Find ON/OFF**

#### **Hardwired Zone Operation**

Enter this command to turn Fault Find ON/OFF. While in Fault Find mode, the loop response for all zones will be set to the faster response of 40 ms. The keypad will beep for .25-seconds when hardwired zones are faulted and for 1-second when zones are restored. Keyswitch Arming has precedence over Fault Find and will arm/disarm the system, disabling Fault Find.

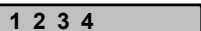
#### **Wireless Operation (Signal Strength)**

While in Fault Find mode the keypad will provide an audible (Table 6) and visual (Figure 5) indication of each transmitter's signal strength. The signal strength metering is based on a scale of 4 to 10, with 4 being marginal and 10 being excellent.

The keypad will beep out a number, from 1-4, corresponding to the signal strength of the transmitter. See Table 6. Each beep is 1-second long. The keypad will sound a short beep for transmitters with signal strengths of 3 or less.

| SIGNAL STRENGTH | KEYPAD SOUNDER      |
|-----------------|---------------------|
| 3 or less       | .25S BEEP           |
| 4               | BEEP                |
| 5               | BEEP BEEP           |
| 6-7             | BEEP BEEP BEEP      |
| 8-10            | BEEP BEEP BEEP BEEP |

**TABLE 6** AUDIBLE SIGNAL STRENGTH INDICATION

|                                                                                     |                          |
|-------------------------------------------------------------------------------------|--------------------------|
|  | Signal Strength = 4      |
|  | Signal Strength = 5      |
|  | Signal Strength = 6 - 7  |
|  | Signal Strength = 8 - 10 |

**FIGURE 5** VISUAL SIGNAL STRENGTH INDICATION

### **Signal Strength Logging Mode**

The Signal Strength Logging Mode is a troubleshooting tool which allows the collection of signal strength information for all transmitters on the system. Normally the Signal Strength of Supervisory Signals are not logged; during Signal Strength Logging Mode the signal strength information for all supervisory signals received over a two hour period will be saved to the LOG.

### **Local Activation**

Enable [92-4=ON], this will initiate a two hour

test period where all supervisory signals will log signal strength information.

### Remote Activation

Using PCD-Windows V5.0 Software, follow the instructions below:

From the Status Screen:

Select [ Enable Signal Strength Logging ]

*The Signal Strength logging mode will automatically time out in 2 hours.*

### Uploading Signal Strength Information from the Log

After approximately (2) two hours, re-establish a connection with the panel. Signal strength log information ranges from 1 to 10. The logging of signal strength should appear similar to the sample LOG below:

```
7/24/2015 08:44AM QL: Establish Connection
              (Callback) Operator 0
7/23/2015 07:43AM Transmitter Status: Zone
              7(7) SS 10 1
7/22/2015 06:44AM Transmitter Status: Zone
              7(7) SS 10 1
```

### TEST MODE

This is a dealer option, only used to test the system after installation. To enter Test Mode, enter 4-digit Dealer Code, press [MENU], then press [1].

- Initiating test mode causes bell test and "Start Test Mode Report" (FD or Point ID

607) to Central Station.\*\*

- Red LED and Green LED slowly flash, indicating "SIA Test Mode".
- All faulted zones are memorized and displayed.
- All zones set to Auto Reset.
- No arming or alarm reporting to Central Station allowed during test mode.
- Time-out in 20 minutes, or press [RESET] to exit.
- Five minutes prior to 20 minute time-out, Red and Green LEDs flash slower.
- Sends "End Test Mode Report" to Central Station when the mode is exited or timed-out (FE or Point ID 607).\*\*
- If 24-hour zone is faulted at end of test, a Zone Trouble for that zone is generated.
- If backup reporting is selected, Telco T1 will be used for "Start Test Mode", Telco T2 will be used for "End Test Mode".

\*\*Address [45-1] Communicator Enabled must be set for "Start Test Mode" and "End Test Mode" to report.

### Zone Features

#### †[00]Exit/Entry Zones

Delay allows exit and entry through an Exit/Entry Zone after the system is armed without setting off an immediate alarm. *Exit Delay* allows the user to leave the premises after arming. *Entry Delay* allows the user

time to enter and disarm. The entry delay may be canceled by pressing [INSTANT].

#### [01]Home/Away with Delay Zones

Zones that automatically bypass at the expiration of the exit delay if the EXIT/ENTRY zone(s) are not violated. Zones of this type have a three (3) minute power-up delay, and do not display or cause an alarm if faulted when the system powers up. Pressing the [RESET] key cancels the 3 minute timer.

If Exit/Entry zone(s) are violated during the exit delay, zones programmed as Home/Away with Delay Zone(s) will have a fixed 30-second entry delay, if violated before the Exit/Entry zone.

To eliminate this fixed 20-second entry delay, also program zones as *Exit/Entry Follower Zones* [02].

To return protection to zones of this type, press [BYPASS] [RESET] from the keypad or [A1] or [A2] from a Keyfob. Program the Keyfob [81-84] AUX 1 or AUX 2 button(s) for **Full Set System** [enter 7 in AUX 1 or AUX 2 in Program Mode].

#### NOTE:

If [MENU] [0] is Entered during *Exit Time*, *Home/Away with Delay Zones* will be automatically bypassed, even if the *Exit/Entry Zone* is violated. *Easy Exit/Easy Arm* [22-2] must be enabled.

#### [02]Exit/Entry Follower Zones

Entry Delay allows the user time to enter

and disarm. Allows exit after the panel is armed without setting off an immediate alarm and allows entry only if an *Exit/Entry Zone* [00] has been violated first. Zones of this type have a three (3) minute power-up delay, and do not display or cause an alarm if faulted when the system powers up. Pressing the **[RESET]** key cancels the 3 minute timer.

**Group Bypassing (Interiors Bypassing)** - Zones programmed as *Exit/Entry Follower Zones* will be Group bypassed if the **[STAY]** key is pressed while disarmed or within the *Exit Delay*.

**Auto Interior Bypassing** - Also program zones as *Home/Away with Delay Zone(s)* [01] to automatically bypass at the expiration of the exit delay if the *EXIT/ENTRY Zone(s)* are not violated during the exit delay.

### [03]Auto-Bypass Reentry Zones

Zones programmed as this zone type are permitted to be faulted at the time of arming. Once the zone is restored, while the control panel is still arming or has been armed, the zone will automatically be unbypassed and any subsequent violations of the zone will cause an alarm condition. (Not Evaluated by UL).

### [04]24-Hour Protection

A zone that provides protection at all times, whether or not the system is armed.

### [05]40 ms Loop Response

Normally loop response is 750 ms, select this option to change the loop response to 40 ms. The slower the loop response, the less sensitive the system will be to intermittents (swingers). The programming option is not permitted for UL installations.

### [06]Disable EOL Resistor

Program this zone type if an End Of Line Resistor is not required on the zone(s). If programmed, a direct short across the zone is the normal condition, while open is faulted.

This programming option is not permitted for UL installations.

### †[07]Burg (Steady) Output

Enables the Bell Output on a zone trip for each zone selected. The Bell Output will remain ON for the length of time programmed for *Burg (Steady) Output* [07] or it will remain ON until turned off by entering a valid Arm/Disarm Code; 0 means output will stay ON until turned off.

### [08]PGM Output

The PGM output is a negative trigger output which may be used to drive an LED, low current (<50mA) relay or to trigger an input to a long range radio. [08] enables the PGM Output on a zone trip for each zone selected. The PGM Output will remain ON until reset.

### [09]Selective Bypass

If programmed, selected zones will be able to be bypassed by the User. By default, all zones are permitted to be bypassed.

## System Times

### [10]Exit Delay

The delay time which permits exit through an *Exit/Entry Zone* [00] after the system is armed, allows a user to leave the premises without setting off an immediate alarm. *Exit Delay* may be programmed for up to 255 seconds (4¼ minutes); a value of 0 will default to 45 seconds for CP-01 and 15 seconds for non CP-01. SIA CP-01 Required Default = 60 seconds.

### [11]Entry Delay

Delay time permits entry through *Exit/Entry Zone(s)* after the system is armed without setting off an immediate alarm. *Entry Delay* allows the user time to enter and disarm the system. Upon entering, the keypad sounder will sound a steady tone (Entry Sound) to remind the user to disarm the system. *Entry Delay Time* [11] may be programmed from 30 to 255 seconds (4¼ minutes); a value of 0 defaults to 30 seconds. *Entry Delay* may be canceled by pressing and holding **[STAY]** before or after arming. SIA CP-01 Required Default = 30 seconds.

### [12]Burg (Steady) Output Time-out

Can be programmed from 1 to 255 min (4¼ hours); 0 means output will stay ON until turned off by entering an Arm/Disarm Code. UL required minimum = 5 minutes.

### [13]Fire (Pulsed/Temporal) Output T/O

Can be programmed from 1 to 255 min (4¼ hours); 0 for output active until silenced by entering an Arm/Disarm Code. For temporal sounder, enable [96-3] UL Household Fire. UL required minimum = 5 minutes.

### [14]Test Timer Interval

#### Test Timer

If Test Timer [36-4] is enabled, program the interval, in days, between Test Timer reports. Valid entries are from 1 to 255 days.

### [15]Line Cut Time-to-Fail

Enable this feature by programming the delay time required to declare a line cut failure. Programming 000 will disable line cut detection.

### [16]Wireless Supervisory Timer

A transmitter will send a transmission every time it is tripped; when there is no activity, the transmitter sends a supervisory transmission about once an hour. If the receiver does not receive any signal (either a trip or a status) from a transmitter in the

time specified, a system trouble 'RF Supervisory Failure' will be indicated at the keypad. Timer is programmable from 1-26 hours; 0 means NO supervision.

### [17]Wireless Smoke Supervisory Timer

A smoke detector will send a transmission every time it is tripped; when there is NO activity, the smoke detector sends a supervisory transmission about once an hour. If the receiver does not receive a signal (either a trip or a status) from a transmitter in the time specified, a system trouble 'RF Supervisory Failure' will be indicated at the keypad. The Supervisory timer is programmable from 1-8 hours; 0 means NO supervision. Note: If UL Household Fire is enabled, the Wireless Smoke Supervisory Timer will automatically be set to 4 hours.

### [18]Test Timer Offset

Enter the time, in hours, that a Test Timer will be reported after Dealer Mode has been exited. With the default value of 12, the test timer will be sent 12 hours after exiting Dealer Mode. The test timer can also be offset using PCD-Windows Downloading Software. On power up the test timer is sent immediately. Follow the commands below to offset the test timer using Quickloader Software:

1. From the Status Screen, select **Miscellaneous**
2. Enter the number of hours for Test Timer Offset
3. Select Set Test Timer Offset
4. Select OK

## System Features

### [20]Keypad Features 1

#### (1) Enable Keypad Fire (7F \* )

Additional Programming required:

Select reporting to Telco 1 [36-1] or Telco 3 [56-1].

#### (2) Enable Keypad AUX (8A \* )

Additional Programming required:

Select reporting to Telco 1 [36-2] or Telco 3 [56-2].

#### (3) Enable Keypad Panic (9P \* )

Additional Programming required:

Select reporting to Telco 1 [36-3] or Telco 3 [56-3].

(4) **Enable Ambush** - If enabled, the 8th User Code will send an Ambush report when entered to disarm the system.

Additional Programming required:

--Program User 8 Arm/Disarm Code.

--Select reporting to Telco 1 [36-2] or Telco 3 [56-2].

**UL Installations:** If Keypad Fire [20-1] is enabled, the keypad must be mounted within (3) three feet from the Control Panel with no intervening barrier, such as a wall or a ceiling.

## [21]Keypad Features 2

(1) **Audible Panic** - Keypad Panic will not turn the Bell on unless this option is programmed.

†(2) **Exit/Entry with Urgency** - select to give an audible indication of Exit and Entry times. During the last 10 seconds of entry and exit time, the keypad sounds a distinct sound to indicate you must either leave the premises or the panel must be disarmed.

(3) **Display Bypassed (Armed)** - Select to display bypassed zones while the panel is armed.

(4) **Disable Code Entry Beeps** - Disabling will turn off the keypad. Correct and incorrect code entry beeps, except while in Dealer Program Mode (i.e. no indication of incorrect code entry).

## [22]Miscellaneous Features 1

(1) **Dialer (Abort) Delay** - Program to allow a 15 second Delay (except *24 Hour Zones*) after a zone trip before reporting. Disarm the system within 30 seconds to prevent reporting if [79] not programmed.

(2) **Easy Exit/Easy Arm** - Enables   command. While the system is armed, entering this command allows 3 minutes to Exit through *Exit/Entry* and *Exit/Entry Follower Zones*. Enabling this option also enables Easy Arm, press the  key to arm the system.

(3) **Swinger Shutdown** - Automatically disables armed zones with excessive alarm/restores (swingers). Non-24-Hour Protection zones: allows only 3 alarms and 2 restores per zone per arming before the zone is disabled if [80] is not programmed. See page 24 for more information.

(4) **Bell on Line Cut (Armed)** - Program to turn the Bell Output on if the telephone line has been cut while the panel is armed. Program Line Out Time [15] with a value of 10-255 seconds (000 = disable).

## [23]Programmable Output Features 1

(1) **Audio Verification** - Program to activate the PGM during reporting. Select specific zones for audio verification by programming the required zones in *PGM Output* [08], *PGM Features 2* [24] and *PGM Features 3* [25]. Connect the PGM to the Veriphone™ trigger low input.

(2) **Access Output** - Activates the PGM output for 5 seconds using the   command. This programming option has not been evaluated by UL.

(3) **Follow Keypad Sounder** - The following keypad sounds will activate the PGM output: Entry Sounder, Keypad Pulsing Sounder, Keypad Output on Alarm, Chime, Fault Find.

(4) **Keyfob/Keyswitch Chirp** - Program to chirp the Bell Output when the system is armed or disarm by a GEM-KEYF KeyFob or

by keyswitch. It will chirp the bell output (1) one time when the panel is armed or (2) two times when the panel is disarmed. Enabled by default. (SIA CP-01 Requirement).

## [24]Programmable Output Features 2

(1) **Fire** - Program to activate the PGM on a Fire alarm.

(2) **AUX** - Program to activate the PGM on a AUX alarm.

(3) **Panic** - Program to activate the PGM on a Panic alarm.

(4) **Test Timer** - Program to activate the PGM during a Test Timer report.

## [25]Programmable Output Features 3

(1) **AC Fail** - Program to activate the PGM on the loss of AC. (15 minute delay)

(2) **Low Battery** - Program to activate the PGM on a Low Battery condition.

(3) **\*Trouble** - Program to activate the PGM on a Trouble condition.

(4) **Armed** - Program to activate the PGM when the panel is Armed. The PGM output will flash when the panel has gone into alarm.

\*Includes Bell Cut, Fire Trouble, Receiver Fail-to-Respond, Receiver Tamper, Receiver JAM, Wireless Transmitter Low Battery, Wireless Supervisory Failure, Wireless Smoke Low Battery, Wireless Smoke Supervisory Failure, and Wireless Tamper.

## [26]Miscellaneous Features 2

(1) **Momentary Keyswitch Arming** - For Keyswitch Arm/Disarm, connect a normally-

closed momentary Keyswitch in series with Zone 6 zone AND its 2.2K EOLR. See Key-switch Polarity [27].

**(2) Reserved**

**(3) Inhibit Fail-to-Communicate Display -**

This option prevents the keypad from either indicating or sounding when a Fail to Communicate has occurred.

**(4) Inhibit Low Battery Display -** Program to inhibit the Low Battery Display at the keypad. Low Battery Reporting is not inhibited. The programming option is not permitted for UL installations.

**[27]Keyswitch Polarity**

**(1) Keyswitch Polarity -** program to convert keyswitch operation from Normally Closed style to Normally Open wired across a 2.2K EOLR.

**[29]Programmable Chime Time**

**(1) Chime Time -** Program chime in 1/4 second increments. For 1 second, program 4, for 2 seconds, program 8, etc.. Valid entries are 2 - 9, and 0 defaults to 1 second.

**Telephone 1 Programming**

**[30]Subscriber ID Number**

For 4/2 format enter a 4 digit number. If 3/1 format is required, enter a 3 digit number, then press the **[AWAY]** key to blank the last digit.

**[31]Telephone Number 1**

Program the phone number to be dialed for

Telephone Number 1. Program the number directly, just as it is entered on a TouchTone phone. If 1<sup>st</sup> location is not D, E or F, then a 4-second delay occurs, prior to dialing the 1<sup>st</sup> digit. Use the **[AWAY]** key to blank out remaining digits in the phone number.

**[32]Receiver Format**

Select the receiver format to be used to report for Telephone Number 1: Program a 0 to disable reporting to Telco 1.

- |                        |                          |
|------------------------|--------------------------|
| [0] Disabled           | [4] Universal High Speed |
| [1] Ademco Slow        | [5] Reserved             |
| [2] Radionics Slow     | [6] Point ID             |
| [3] Silent Knight Fast | [7] Pager                |

**[33]Receiver Options**

**(1) 2300 Hz HS/Kissoff -** Select 2300 Hz Handshake and Kissoff.

**(2) Sumcheck -** Only used for the following Receiver Formats: Ademco Slow, Radionics Fast, Silent Knight Fast and Universal High Speed. This is a sophisticated data format used to enhance the speed and check the accuracy of the received transmission. This format should be used whenever the central station has this capability. Instead of sending a second round to verify correct data, the panel sends a Sumcheck digit after sending the Subscriber ID and Alarm Code.

**(3) Single Digit -** 3/1 Format. 3-digit Subscriber ID number and a 1-digit Alarm Code will be transmitted.

**(4) No Handshake -** (All receiver formats except Pager Format)

If programmed no Handshake/Kissoff is required by the panel.

**†[34]Zone Report, Telco 1**

Select zone(s) required to send an alarm report to Telephone Number 1.

**[35]Zone Restore Report, Telco 1**

Select zone(s) required to send a restore report to Telephone Number 1. The zones will send a restore after Bell time-out, unless programmed as silent zones.

**[36]System Reporting, Telco 1**

**(1) Keypad Fire -** Program to activate a Keypad Fire report (**[7F][\*]**). Requires [20-1] to be programmed.

**(2) AUX/AMBUSH -** Program to activate an AUX or AMBUSH report (**[8A][\*]**). Requires [20-2] to be programmed.

**(3) Panic -** Program to activate a Panic report (**[9P][\*]**). Requires [20-3] to be programmed.

**(4) Test Timer -** Program to activate a Test Timer report. Requires [20-4] to be programmed.

**[37]System Reporting, Telco 1**

**(1) AC Fail Report -** Program to activate an AC Fail report (15 minute fixed report delay).

(2) **Low Battery Report** - Program to activate a Low Battery report.

(3) **Trouble Report** - Program to activate a Trouble report. (See Note A, below).

(4) **Fire Report** - Program to activate a Fire report.

### [38]System Restore Report, Telco 1

(1) **AC Restore** - Program to activate an AC Restore report.

(2) **Battery Restore** - Program to activate a Battery Restore report.

(3) **Trouble Restore** - Program to activate a Trouble Restore report. (See Note A, below).

(4) **Fire Restore** - Program to activate a Fire Restore report.

**Note A:** (Applies to [37-3] and [38-3]): Includes Bell Cut, Fire Trouble, Receiver Fail-to-Respond, Receiver Tamper, Receiver JAM, Wireless Transmitter Low Battery, Wireless Supervisory Failure, Wireless Smoke Low Battery, Wireless Smoke Supervisory Failure, and Wireless Tamper. Contact ID format will report trouble(s) by device and ID number.

### [39]Opening/Closing Report, Telco 1

Select users required to send opening and closing reports to Telephone Number 1. Do not program for users that are intended to send a Cancel Code or *Conditional Closing* reports.

## Backup Telephone Programming

### [40]Subscriber ID Number (Telco 2)

For 4/2 format enter a 4 digit number. If 3/1 format is required enter a 3 digit number then press the **[AWAY]** key.

### [41]Telephone Number 2

Program the phone number to be dialed for Telephone Number 2. If 1<sup>st</sup> location is not D, E or F, then a 4-second delay occurs, prior to dialing the 1<sup>st</sup> digit.

### [42]Receiver Format (Telco 2)

Select the format that will be used to report for Telco 2 (Backup reporting). Refer to section [32].

### [43]Receiver Options (Telco 2)

Refer to section [33] Receiver Options.

### [44]Dialing Prefix

Dialing prefix for Telco 1, Telco 2, and Telco 3. Program if using an Outside access number. If the 1st digit is not D, E, or F, then a fixed 4 second delay occurs prior to dialing the first digit.

### [45]Communicator Features 1

†(1) **Communicator Enabled** - Program to enable the communicator.

(2) **DTMF with Rotary Backup** - The first attempt to communicate is dialed using the TouchTone method of dialing, subsequent attempts are dialed using the pulse method of dialing. Disable this feature to dial using only rotary dialing.

(3) **DTMF only** - All attempts to communicate dial using the TouchTone method of dialing.

(4) **Backup Reporting to Telco 2** - After 2 attempts are made to communicate to Telco 1 the backup phone number is dialed (Telco 2).

## [46]Communicator Features 2

(1) **Enable Call Waiting Disable** - Default is *disabled*. If this feature is enabled, the first attempt will dial ""70" prior to the telephone number (disabling the call waiting tone during the alarm transmission). If the first call does not get through, subsequent attempts will dial as programmed.

(2) **2:1 Rotary Dialing** - Changes the make break ratio when rotary dialing from 1.5:1 to 2:1.

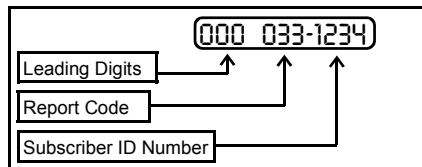
(3) **Backup if < 4 attempts** - If *Backup Reporting* [45-4] has been enabled, the communicator will use *Telephone Number 2* [41] for the remaining retries when there are less than 4 retries remaining.

(4) **Don't Clear Fail to Communicate** - Program to prevent a good line cut test from clearing a Failure to Communicate system

trouble. If programmed, only a successful communication to Central Station will clear a Failure to Communicate system trouble.

## Pager Programming

If Pager Format ([32]and/or[42]and/or[52] = 7) is selected, pager data will be displayed as shown in Figure 8 (on next page). If Pager Format is selected 4/2 format must be programmed and Sumcheck is not permitted. If a PIN number is required refer to Leading Digits [47].



**FIGURE 8** DEFAULT PAGER DISPLAY

Pager Alarm data is the same as 4/2 format with the exception that the 2 digit Report Code is transmitted before the 4 digit Subscriber ID.

### NOTE:

Digits in Report Codes and subscriber IDs that are programmed with "B" through "F" will be converted to "0"s.

## [47]Leading Digits

**Pager PIN Number** - If a PIN number is

required by the paging system, program the PIN number in the Leading Digits location.

See sample program below.

If a 7-digit PIN number is required, program the panel as follows:

[31]/[41]/[51] - Pager Telephone number

[32]/[42]/[52] - Select Pager Format

[47] - **X X X X X X X C**

7-digit PIN Number

Terminating Digit (#)

Leading and Trailing digits can be letters B, C or D. B = the \* button on a telephone, C = the # button on a telephone, D = 2 second delay.

## [48]Trailing Digits

Transmitted after alarm data. Refer to section [47] for programming information.

## [49]Pager Options

(1) **Skip Alarm Data** - Once pager format is selected, program this option to skip alarm data. If this option is selected, all the programmed Leading and Trailing digits are sent, but the event code and subscriber ID are not transmitted. With this option selected, a telephone number programmed in Leading Digits or Trailing Digits would send the telephone number to the pager each time a report is sent.

(2) **Reserved**

(3) **Reserved**

(4) **Reserved**

## Telephone 3 Programming

### [50] - [59]

Programming is the same as for Telco 1. Program to split/double report to Telco 3. Refer to sections [30] through [39].

## Report Codes

### [60]Zone Report Codes

Report Code for Zones 1 through 8.

**4/2 format** - The Zone Report Code is the 1st digit of the report code sent, the second digit is the zone number of the reporting zone. For example, if zone 2 has a report code of 3, the report code would be **32**.

**3/1 format** - Sends only the report Code and does not append it with the zone number.

### [61]Point ID Report Codes

Point ID Report Codes are defaulted to Burglary for zones 1 through 8. Optionally, Point ID codes for zones 1 through 8 can be programmed as follows:

|                   |                |
|-------------------|----------------|
| [1] Fire          | [7] Gas Alarm  |
| [2] Panic         | [8] Heat Alarm |
| [3] Burglary      | [9] Reserved   |
| [4] Holdup        | [A] Auxiliary  |
| [5] General Alarm | [B] 24 Hour    |
| [6] Reserved      |                |

### [62]Zone Codes

**[62-1] Restore code** - Zones 1 through 8.

The second digit of the restore code is the zone number of the restored zone. For example, if the Zone Restore Code [62] is programmed to **E**, the restore code for that zone would be **E4** (4/2 format).

**[62-2] Trouble Code** - Conditional Closing Reports. Zones that are bypassed at the time of arming send this code along with the zone number of the bypassed zone(s). For example a conditional closing by User 2, with zones 2 and 3 bypassed would be as follows:

1234 C2

F2

F3

### **[63]System Report Codes**

Program a 2-digit report code for *Keypad Fire, Keypad AUX, Keypad Panic, Test Timer, AC Fail, Low Battery, Trouble\* and Fire.*

\*Includes Bell Cut, Fire Trouble, Receiver Fail-to-Respond, Receiver Tamper, Receiver JAM, Wireless Transmitter Low Battery, Wireless Supervisory Failure, Wireless Smoke Low Battery, Wireless Smoke Supervisory Failure, and Wireless Tamper.

### **[64]System Restore Code**

The code sent when a system condition restores. The second digit of the 2-digit restore code is the second digit of the System Report Code [63]. For example, if a Low Battery System Report Code is F8 the

Battery Restore would be E8 (4/2 format).

### **[65]Opening and Closing Codes**

Program Opening and Closing Codes for Users 1 through 8. The second digit of the report code is the number of the user that armed or disarmed the system. For example, if the Closing Code [65] is programmed with a **C**, the closing code for User 2 would be **C2** (4/2 format).

### **[66]Ambush Report Code**

Program a 2-digit report code for Ambush. To send an ambush report, program a User Code for User 8, Program report User 8 as Ambush [20-4] and Select reporting for Telco 1 [36-2] and/or Telco 3 [56-2].

## **Enhanced Communicator Features**

### **†[67]Telephone Number 1**

(1) **Send Cancel Report** - Default is *enabled*. When enabled, will allow a 5 minute window during which a Cancel Report (Contact ID code 406-00X) will be transmitted should the system be disarmed during this time. This 5 minute cancel window starts at the end of the abort timeout if the abort feature is enabled;

otherwise the 5 minute timeout starts immediately upon the alarm. Only non 24-hour zones start the Abort delay and Cancel report timers.

(2) **Conditional Closing Telephone 1** - When enabled, all users that are not selected to report an Opening/Closing ([39], [59]) will report a Closing only when zones have been bypassed. The Zone Trouble Code [62-2] is used to report zones that have been bypassed at the time of the closing report.

(3) **Reserved**

(4) **Reserved**

### **[68]Telephone Number 3**

(1) **Opening after Alarm (Cancel Code)** - see [67-1].

(2) **Conditional Closing Telco 3** - see [67-1].

(3) **Reserved**

(4) **Reserved**

### **[69]Miscellaneous Features 4**

(1) **Reserved**

(2) **Reserved**

(3) **CHIME disabled on Power Up** - All perimeter zones will not chime on fault. Keypad, if used, will allow toggling chime on/off.

(4) **Fire Alarm Verification** - Default is *disabled*. If this feature is enabled, the first trip of a smoke detector will not generate an alarm.

The panel will remove power from the smoke detector for 14 seconds, allow the smoke detector to reset for 6 seconds, then wait for another trip for 60 seconds. Only if another trip is sensed within the 60 seconds will the system generate a fire alarm.

## SIA CP-01 /Misc. Features

### †[70]SIA CP-01 / Misc. Features

†(1) **Exit Restart Enabled** - Default is *enabled*. When enabled, exit delay will be re-started if an egress door is opened, closed then re-opened. This will occur only once per arming period.

†(2) **Convert Away to Stay if No Exit** - Default is *enabled*. The system arms in the Stay mode if the exit delay expires and no exit has been made.

(3) **Bell Chirp on All Arming and Closing Ringback** - Default is *disabled*. If enabled, the bell will chirp 8 seconds after arming and it will chirp a second time after the Central Station has acknowledged the receipt of the closing report.

(4) **Zone 6 as Auxiliary Zone** - Default is *disabled*. If enabled, Zone 6 will act as follows: 24 Hour zone, short on Zone causes alarm with pulsing bell, 1 second on, 1 second off. Open causes zone trouble. Alarm time-out

follows Fire time-out unless feature [70-3] is enabled.

### †[79]Abort Delay By Zone Mask

All 8 Zones enabled by default.

### †[80]Swinger Shutdown (by zone)

All 8 Zones enabled by default. Each Swinger Shutdown bit must be disabled individually. This feature only allows one trip per arming period when [96-4] is enabled, otherwise will perform 3 trips. The panel must be disarmed then rearmed for a burglary zone to generate an alarm again. **Note:** Must not be disabled in SIA CP-01 installations. See page 24 for more information.

### [89]Cross Zoning (by zone)

All 8 Zones disabled by default. Each Cross Zoning (Zone ANDing) bit must be enabled individually. Requires two zones in mask to trip within 90 seconds of each other before an alarm transmission sequence (alarm report) is sent to Central Station. **Note:** If Swinger Shutdown [80] is enabled, only 1 trip per Group per arming period will occur.

## Wireless

Up to two receivers can be wired to the GEM-P801. Each wireless transmitter can be mapped to a zone. Only 1 wireless device is permitted per zone, however, the

use of both hardwired and wireless on a zone is permitted.

### To Map a transmitter to a zone:

1. Enter the Programming Block Number that the transmitter is to be mapped to.
2. Enter the 7-digit RF ID number directly, just as it is shown on the device label. After the 7th digit is entered the keypad will beep.

A transmitter will send a transmission every time it is tripped. The transmitter also sends a supervisory transmission about once every hour. If the receiver does not receive a signal from a transmitter in the time programmed in Wireless Supervisory Timer, a system trouble 'RF Supervisory Failure' will be indicated at the keypad.

Program Wireless Supervisory Timer [16] to change the supervisory time from the default of 12 hours.

The Signal strength of a transmitter can be checked at the keypad (see  Fault Find Mode) or saved to the LOG (see Signal Strength Logging Mode - pg. 11).

### [71-78] Wireless Transmitters

Enter the RF ID# and the point number that is to be mapped to the zone.

#### Programming Example

Map point 1 of a window door transmitter with an RF ID# of 0012B0:0 to Zone 3.

1. Enter Dealer Mode.

2. Enter **[RESET]** (beeps) **[7F]** **[3]** (beeps)

3. Enter **[1]** **[2]** **[\*]** **[2]** **[0]** **[0]**

Enter **[1]** (beeps)

Note: If the RF ID# in step 3 is not entered correctly the keypad will emit a 1 second tone indicating incorrect entry. Repeat steps 2 - 4 above.

## **[81] - [84] Wireless Keyfobs**

The GEM-KF is a hand held wireless transmitter capable of Arming and Disarming the control panel and/or activating 2 Auxiliary Functions. To activate the auxiliary functions, press and hold the [A1] or [A2] key for 2 seconds (see W1752 for more information). Enter the RF ID# and AUX 1 and AUX 2 options for each Keyfob.

### **AUX 1 & AUX 2**

#### **Programming Options:**

#### **1 Panic**

Program a 1 in the AUX 1 and/or AUX 2 option to initiate a panic alarm when the [A1] or [A2] buttons on the Keyfob are pressed.

Additional programming required:

Keypad Panic (**[9P]** **[\*]**) [20-3]

Panic Report to Telco 1[36-2] and/or Telco 3 [56-3].

Audible Panic (Optional) [21-1]

#### **2 AUX**

Program a 2 in the AUX 1 and/or AUX 2 option to initiate a AUX alarm when the [A1] or [A2] buttons on the Keyfob are pressed.

Additional programming required:

Keypad AUX (**[8A]** **[\*]**) [20-2]

AUX Report to Telco 1[36-2] and/or Telco 3 [56-2].

#### **3 Bell ON**

Program a 3 in the AUX 1 and/or AUX 2 option to turn the Bell ON when the [A1] or [A2] buttons on the Keyfob are pressed. Press the [OFF] button to turn the Bell OFF.

#### **4 PGM**

Program a 4 in the AUX 1 and/or AUX 2 option to activate the PGM Output when the [A1] or [A2] buttons on the Keyfob are pressed. Press the [OFF] button to turn the PGM Output OFF.

#### **5 Instant**

Program a 5 in the AUX 1 and/or AUX 2 option to activate Instant Mode when the [A1] or [A2] buttons on the Keyfob are pressed.

#### **6 Access on PGM**

Program a 6 in the AUX 1 and/or AUX 2 option to activate the PGM Output for 5 seconds when the [A1] or [A2] buttons on the Keyfob are pressed.

Additional programming required:

Enable *Access Output* [23-2]

#### **7 Full Set System**

Program a 7 in the AUX 1 and/or AUX 2 option to Fully Set the System when the [ON] and the [A1] or [A2] buttons on the Keyfob are pressed---or---when the [A1] or [A2] buttons are pressed when the system is armed, and *Exit/Entry Follower Zones* are bypassed (with or without *Home/Away with Delay Zones* bypassed).

#### **8 Interior Bypass**

Program an 8 in the AUX 1 and/or AUX 2 option to Bypass *Exit/Entry Follower Zones* when the [A1] or [A2] buttons on the Keyfob are pressed. Only if the system is programmed exclusively for *Home/Away with Delay Zones* (with Exit/Entry follower zones) do they get bypassed.

## **[85] - [88] Wireless Smoke Detectors**

Enter the RF ID# of the smoke detector.

A wireless smoke detector sends a supervisory transmission about once every hour. If the receiver does not receive a signal from a transmitter in the time programmed in Wireless Smoke Supervisory Timer, a system trouble 'RF Smoke Supervisory Failure' will be indicated on the keypad.

Program Wireless Smoke Supervisory Timer [17] to change the time from the default time of 8 hours. Refer to Household Fire [96-3].

**Note:** Mark Smoke Detectors (Smoke 1 through Smoke 4) in order to identify them in the event of a supervisory or battery failure. If *Household Fire* [96-4] is selected, Wireless Smoke Supervisory Time is fixed at 4 hours.

## Downloading

### [90]Callback Telephone Number

Program the phone number of the downloading computer to be dialed by the panel during a high security download.

### [91]Ring Count

Program the number of rings before the panel will pickup. *Ring Method* [92-1] (Downloading Features) must also be selected.

### [92]Downloading Features

(1) **Ring Method** - Enable the ring method of downloading. The panel will pick-up on the number of rings programmed in *Ring Count* [91].

(2) **Answering Machine Override** - Using second call, call the panel. The panel will pick-up on the first ring, hang up and redial.

(3) **Function 6 Download** - Select to enable the keypad connect   method of downloading (pg. 5).

(4) **Signal Strength Test Mode** - Program to initiate a 2 hour test period. The signal strength information for all supervisory signals received over a two hour period will be saved to the LOG.

### [93]Auto Download ID Number

Enter the Number that is used by PCPreset when downloading using Site Initiated Auto Downloading ( ).

### The requirements for Site Initiated Auto Downloading are as follows:

1. Download Computer running PCPreset.
2. Program the telephone number of the Download Computer in location [90] *Callback Telephone Number*.
3. Program location [93] with the number of the PCPreset account that is to be downloaded.

### PCPreset

1. Create the GEM-P801 account to be downloaded using PCD-Windows Quickloader Software.
2. Create a List using PCPreset.
3. Select the account by pressing . Select the desired account from the list of PCD-Windows accounts available. (The location in the list is the *Auto*

*Download ID Number* [93])

4. Tag the list by entering   (download)
5. Enter Standby Mode by entering .

### The Computer is now in STANDBY Site

At the site perform the following three steps:

1. Arm the panel.
2. Disarm the panel.
3. Enter  . The panel will now call the download computer running PCPreset. PCPreset will answer the call, establish a connection, and then download the account that matches the *Auto Download ID Number* [93] with the account of the same number in the list that PCPreset is currently running.

## Dealer Programming

### [94]Dealer Code

The default Dealer Code is **4567**. Program a new 4-digit Dealer Code. When the panel is defaulted the Dealer Code will be changed back to the default Dealer Code of **4567** only if Dealer Code Lockout [96-1] has not been programmed. Note: All User Codes must be 4 digits.

### [95]User 1 Code

The 1st User code is a program code as well as an Arm/Disarm code. The default User Code is **1234**. If User 1 Code Lockout

is programmed the User 1 Code cannot be programmed from User Program Mode.  
Note: All User Codes must be 4 digits.

## [96]Dealer Options 1

(1) **Dealer Code Lockout** - Program to prevent the Dealer Code from changing with a panel default.

(2) **User 1 Code Lockout** - If programmed the User 1 Code cannot be programmed from User Program Mode.

(3) **Household Fire** - (Must be enabled in UL installations). Activates the following UL required features:

There is a 4 hour re-sound of wireless Smoke Low Battery and wireless Smoke Supervisory system troubles.

- An active System Battery test performed every 4 hours instead of 24 hours and Wireless Smoke Supervisory Timer is set to 4 hours.
- Fire Bell Timing is Temporal.
- Wireless Smoke Supervisory Time is fixed at 4 hours.

†(4) **SIA CP-01 Features**. Enabled by default. When enabled, the following features take effect:

1. The minimum allowed programmable exit time is 45 seconds.
2. "Report and Enunciate Exit Error"/ (Exit Error is door open at end of exit delay) sends "CF" code for pulse formats and 374

Point ID.

3. "Report Recent Close". If an alarm occurs within 2 minutes at the end of exit delay, Panel reports "FC" code for pulse formats and 459 Point ID.
4. The minimum allowed Entry time is 30 seconds.
5. Enter Urgency Annunciation is changed from steady sounder to steady with pulsing off. This ensures that the mini-sounder on alarm (steady sounder) sounds different from enter urgency.
6. "Silence Entry Sounder on First Button Press". During Entry delay, pressing any digit on the keypad stops the entry sounder for 10 seconds.

## [97]Dealer Options 2

(1) **International Dialing Protocol** - No dialing if no dial tone, 60 seconds between attempts and 4 second wait for dial tone.

(2) **Invert Bell Output** - Inverts the Bell polarity and removes supervision from the bell circuit.

(3) **System Trouble Auto Restore** - Normally, System troubles require acknowledgment (View System Trouble) in order to restore. If this option is selected troubles will restore without requiring acknowledgment.

(4) **User 1 Code-Program only** - If enabled User 1 Code will function only as the User

Program Code and will not Arm/Disarm the panel.

**Note:** All programming within Programming Blocks [96] & [97] will not change if the panel is defaulted.

## [98] Number of Re-Dials

The Number of re-dial attempts made by the panel before indicating a *Fail-to-Communicate* (System Trouble 1-3).

## Download-Only Features

The following Features are only changeable through downloading:

### Abort Delay Time

The programming for the Abort Window for all non-fire zones is as follows:

| Programming Range |                      |
|-------------------|----------------------|
| Minimum           | 15 sec.              |
| Maximum           | 45 sec.              |
| Default Time      | 30 sec.              |
| May Disable       | By Zone or Zone Type |

**Note:** In accordance with UL standards, the aggregate of the Entry Delay [11] and Abort Window [79] will not exceed 1 minute.

### Abort Enunciation After Disarm

Enabled by default. If the system disarmed in

the abort time window, the keypad chirps 6 times indicating disarm, then chirps another 6 times indicating that the report was aborted. In PCD-Windows Quickloader download software, disable this feature by pressing the System Assignment button, select the System Options tab, in the Miscellaneous field uncheck Abort Annunciation

### **Cancel Enunciation after Disarm**

Enabled by default. If a Cancel Report Code (406-00X) was sent upon disarming, the keypad chirps 6 times indicating the system is disarmed. The keypad then chirps 3 times indicating a Cancel Report Code was transmitted. In PCD-Windows Quickloader download software, disable this feature by pressing the System Assignment button, select the System Options tab, in the Miscellaneous field uncheck Cancel Annunciation.

### **Cross Zone Audible Alarm on First Trip**

Disabled by default. When enabled, first trip of a Cross Zone will initiate the bell output, but will not report to the Central Station unless another Cross Zone trips within 90 seconds. If not enabled, the audible and Central Station report will not occur unless another Cross Zone is tripped.

### **Suppress Test Timer on any Report**

Disabled by default. If enabled, any report (opening, closing, alarm, etc.) will prevent the next Test Timer report from being sent.

### **Test Timer Interval in hours**

Disabled by default. If enabled, the test timer interval changes from days to hours programmed in location [14].

### **Day Zone on Open by zone mask**

When selected a zone will produce a system trouble indication for trouble on a zone. The event is logged and reported on the Trouble Report [37-3] channel as day-zone point ID (370). (Mercantile Panel Specification).

### **Pulse Bell on Alarm by zone mask**

When selected, a zone will produce a pulsing bell at 1 second on 1 second off rate and timeout based on the fire timeout selected. This feature is provided principally for the case zone 6 must be used for key-switch input. (Mercantile Panel Specification).

## **Swinger Shutdown Definition**

### **Swinger Shutdown and CP-01**

Swinger Shutdown is a common term used in the burglary alarm industry. It is a feature of an alarm panel that prevents multiple false alarms from being generated from faulty detectors (or wiring) by limiting the number of alarms a zone may report during a single arming period. NAPCO has a programmable by zone feature named Swinger Shutdown that we have made available on our panels for many years. The SIA False Alarm Reduction standard CP-01, to which the panel now complies, requires "swinger

shutdown" on all non-fire zones. Unfortunately, our programmable feature allows three trips per arming period, which is unacceptable in CP-01 installations. To reduce confusion, the following explains both **Swinger Shutdown (NAPCO Programming Feature)** and **Swinger Shutdown (CP-01 Requirement)**.

**Swinger Shutdown [22-3] (NAPCO Programming Option Bit):** Programming the option "Swinger Shutdown" [22-3] and not programming "Enable CP-01 Features" [96-4] will allow a maximum three alarms per arming period for all non-fire zones not programmed "24 hour".

**Swinger Shutdown [80-1,2,3,4,5,6,7,8] (CP-01 Requirement/Programmable zone mask):** To meet the CP-01 standard, all non-fire zones must be programmed for the by zone feature "Swinger Shutdown" [80] and "Enable CP-01 Features" [96-4]. This will allow only one trip per arming period. The panel factory program and panel default program both enable this feature.

## SIA CP-01 Quick Reference Chart

| Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Description                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| [10] (enter 60)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Exit Time 60 Seconds                      |
| [11] (enter 30)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Entry Time 30 Seconds                     |
| [23-4]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Chirp Bell On Remote (Keyfob) Arm Enabled |
| [46-1] not on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Disable Call Waiting                      |
| [67-1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Send Cancel Report                        |
| [69-4] not on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fire Alarm Verification                   |
| [70-1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Exit Restart Enabled                      |
| [70-2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Convert Away To Stay If No Exit           |
| [79-1,2,3,4,5,6,7,8]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Abort Delay By Zone Mask                  |
| [80-1,2,3,4,5,6,7,8]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | "Swinger Shutdown" (Disable Auto Reset)   |
| [89-1,2,3,4,5,7,8] not on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cross Zoning                              |
| [96-4]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CP-01 Features                            |
| (Download Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Abort Delay Time Default To 30 Seconds    |
| (Download Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Abort Enunciation After Disarm            |
| (Download Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cancel Enunciation After Disarm           |
| (Download Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cross Zone Audible Alarm On First Trip    |
| <ul style="list-style-type: none"> <li>• The following optional accessories support the SIA False Alarm Reduction (FAR) classification, and may be used if desired: GEM-RECV-XP8, GEM-KFOB.</li> <li>• Programming at Installation may be subordinate to other UL requirements for the intended application.</li> <li>• Un-vacated premises: When the system/partition is armed with AWAY button, the system will arm STAY if no exit. There must be a minimum of one Exit/Entry Follower with or without Home/Away with Delay Zones on the partition.</li> <li>• Cross zoning is not recommended for Line security Installations nor is it to be implemented on exit / entry zones.</li> <li>• There is a Communication Delay of 30 seconds in this control panel. It can be removed, or it can be increased up to 45 seconds at the option of the end user by consulting with the Installer.</li> <li>• Do not duplicate any reporting codes. This applies for all communication formats other than SIA sending automatic programmed reporting codes.</li> <li>• In UL installations, Entry Delay time plus Abort Delay time (total combined times) cannot exceed 60 seconds.</li> <li>• Exit Time Restart must be disabled for UL Line Security/Encryption applications.</li> </ul> |                                           |

## System Troubles

Use the System Trouble chart on the following page to determine the specific System Trouble(s).

During normal panel operation the ▲SYSTEM TROUBLE LED has the following two modes of operation:

|                 |                                                       |
|-----------------|-------------------------------------------------------|
| <b>STEADY</b>   | 1-7 possible trouble groups, AC is present            |
| <b>FLASHING</b> | 1-7 possible trouble groups, AC is <u>not</u> present |

## Viewing System Trouble(s)

Press the **[MENU]** **[4]** key on the keypad.

To determine the System Trouble Group Number, count the number of times the ▲SYSTEM TROUBLE LED blinks. The keypad sounder will beep at the same rate that the ▲SYSTEM TROUBLE LED blinks.

To determine the System Trouble, note the zone LED that is ON. Look up the specific system trouble on the chart on the following page.

The ▲SYSTEM TROUBLE LED and keypad sounder will continue to flash and beep. To view the next System Trouble, if any, press **[STAY]**. Continue pressing **[STAY]**, if there are no more system troubles to view, the system will return to normal operation.

### EXAMPLE - LOW BATTERY SYSTEM TROUBLE DISPLAY

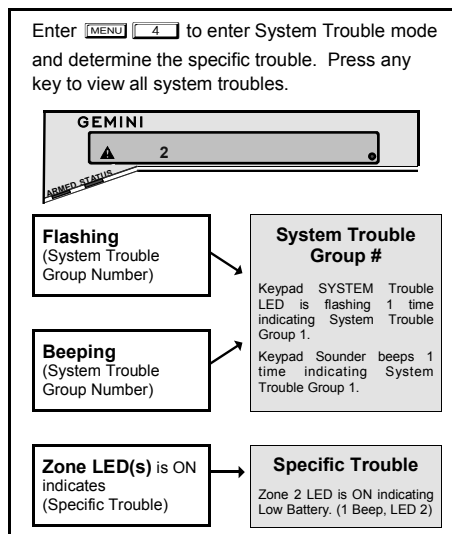


FIGURE 9 SYSTEM TROUBLE EXAMPLE

**Note:** System Troubles Groups 3 through 7 - System Trouble Groups that have a zone or smoke detector associated with the trouble, such as RF low battery. The zone(s) of the device with a low battery will be displayed by the ZONE LED. For example, a wireless low battery on zone 2 would beep the keypad sounder 3 times and turn on zone 2 LED.

**Audible System Trouble Indication** - For all system troubles, except when the only system trouble is the loss of AC, the keypad will beep once every 10 seconds. The keypad will continue to beep until the reset button is pressed or the trouble has been acknowledged by pressing the **[RESET]** key.

## System Trouble Reporting

The following system troubles, when enabled to report to Telco 1 [37-3] or Telco 3 [57-3], will send the report code programmed in Trouble Report [63] if reporting using a pulse format:

| System Trouble         | Pulse Report Code |
|------------------------|-------------------|
| Bell Cut               | F1                |
| 2-Wire Fire Trouble    | F1                |
| Rcvr Fail-to-Respond   | F1                |
| Receiver Tamper        | F1                |
| Receiver JAM           | F1                |
| Tx Low Battery         | F1                |
| Tx Supervisory Failure | F1                |
| Smoke Low Battery      | F1                |
| Smoke Sup. Failure     | F1                |

If reporting using Point ID, a unique code will be sent for each of the following System Troubles.

| System Trouble         | Point ID Report Codes                  |
|------------------------|----------------------------------------|
| Bell Cut               | CODE 1 321 G00 ZN000-BELL 1 TROUBLE    |
| 2-Wire Fire Trouble    | CODE 1 373 G00 ZN000-FIRE LOOP TRBLE   |
| Rcvr Fail-to-Respond   | CODE 1 382 G00 ZN000-SENSOR TROUBLE    |
| Receiver Tamper        | CODE 1 145 G00 ZN000-EXP. MODL. TAMPER |
| Receiver JAM           | CODE 1 333 G00 ZN000-FIRE LOOP TRBLE   |
| Tx Low Battery         | CODE 1 384 G00 ZN00n-RF TRAN LOW BATT  |
| Tx Supervisory Failure | CODE 1 381 G00 ZN00n-SUPERVSN LOSS RF  |

A **300** (SYSTEM TROUBLE RST) code is sent if a restore is reported after multiple troubles.

## System Troubles

| Keypad Beeps or SYSTEM Flashes | Zone LED ON | System Trouble Condition                          | Cause / Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------|-------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Beep                         | 1           | AC Power Failure                                  | This trouble will occur if AC power is not present. Ensure that the transformer is connected to an unswitched power source.                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                | 2           | Low Battery                                       | If there has been a recent power failure, the battery may be partially depleted and must be recharged by the control panel. If the trouble does not go away in 24 hours, replace the battery.                                                                                                                                                                                                                                                                                                                                        |
|                                | 3           | Communication Failure / PCPreset Fail / Line Fail | The system was not able to report to central station. Check panel programming and telephone line wiring. The trouble will clear after it has been acknowledged by viewing the system trouble as long as the telephone line has passed a line cut test (tested automatically by the panel). The Panel did not successfully connect and download/upload with the computer running PCPreset - check Auto Download ID number, Callback Number or PCPreset Setup.                                                                         |
|                                | 4           | Telephone Line Cut                                | The telephone line has failed. If telephone service has been temporarily interrupted, the trouble will clear when restored and acknowledged by viewing the system trouble.                                                                                                                                                                                                                                                                                                                                                           |
| 2 Beeps                        | 1           | Bell/Siren line Cut                               | There is a problem with the Bell or Siren wiring. EOL2.2K resistor must be installed.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                | 2           | 2-wire Fire Trouble                               | There is a problem with the wiring of the Fire Zone.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                | 3           | Rcvr Fail-to-Respond/Rcvr Tamper                  | The receiver is not responding to the panel. The red LED on the receiver should be flashing, refer to WI850. The cover is off the receiver causing a tamper signal to be transmitted.                                                                                                                                                                                                                                                                                                                                                |
|                                | 4           | Receiver Jam                                      | A signal is blocking the normal reception of transmissions from the wireless devices. Ensure that the green LED on the receiver is not on continuously, refer to receiver manual WI850.                                                                                                                                                                                                                                                                                                                                              |
| 3 Beeps                        | 1-6         | Wireless Transmitter Low Battery                  | The battery in the wireless transmitter is low and should be replaced. This transmitter is on the zone corresponding to the number of the zone light flashing. The replacement battery for the GEM-TRANS2 door/window transmitter and the GEM PIR wireless motion detector is the Duracell DL123A. (2 required for the GEM-PIR) WARNING: Replace batteries only with the same type as specified above. Use of another battery may present a risk of fire or explosion. Do not recharge or disassemble battery or dispose of in fire. |
| 4 Beeps                        | 1-6         | Wireless Transmitter Supervisory Failure          | The panel has not received a supervisory signal from the transmitter within the time programmed. Check <i>Wireless Supervisory Timer</i> [16] Programming. Check the placement of the transmitter and receiver, refer to WI850.                                                                                                                                                                                                                                                                                                      |
| 5 Beeps                        | 1-4         | Wireless Smoke Detector Low Battery               | The battery in the wireless smoke detector is low and should be replaced. This wireless smoke detector should be marked with a number corresponding to the number of the zone light flashing. The replacement batteries required are *Duracell 9 Volt Alkaline (2).                                                                                                                                                                                                                                                                  |
| 6 Beeps                        | 1-4         | Wireless Smoke Detector Supervisory               | The panel has not received a supervisory signal from the wireless smoke detector within the programmed time. Check <i>Wireless Smoke Supervisory Timer</i> [17] Programming. Check the placement of the wireless smoke detector and receiver, refer to WI850.                                                                                                                                                                                                                                                                        |
| 7 Beeps                        | 1-6         | Zone Trouble                                      | The panel has one or more of the following 2 possible troubles: Transmitter Tamper, Dual Tech Self Test Fail, or 24 hr Zone Type.                                                                                                                                                                                                                                                                                                                                                                                                    |

## Troubleshooting

### 1. The bell output drops to about 3 volts in alarm.

The battery/bell circuit is protected by a PC board trace which may have burned open by reversal of the battery leads. It is on the back of the PC board just adjacent to the red & black battery leads. Send in for service if this occurs.

### 2. How do I remove the Keypad Sounder on Alarm?

The keypad sounder follows the Burg Output. If you need to remove the Keypad Sounder, then you must remove the Burg Output from that zone.

### 3. How do I activate Chime by Zone?

The Chime feature will automatically be assigned to all zones, except for the following:

Zones programmed as Home/Away with Delay Zones programmed as Exit/Entry Followers

Zones programmed for 24 Hour Protection. To Activate/Deactivate the chime mode, Press  .

### 4. When using a piezo on the Bell Output, it constantly buzzes.

This is due to the fact that there is a constant loop current flowing through the Bell circuit for supervision. To eliminate this, cut resistor **R26** which is located directly above Terminal 9 just below the heat sink.

### 5. Where are the fuses?

The control panel incorporates advanced circuitry which automatically limits the current when an over current condition exists without the use of traditional fuses. The circuit will restore automatically when the over current condition is corrected.

### 6. The PGM Output Pulses in Alarm.

When the PGM lug of the control panel is programmed for an Armed indication it also incorporates an Alarm Memory function which will indicate that the system is in an Alarm condition.

### 7. I short out the bell and the system does not indicate Bell Trouble.

The Bell Supervision circuit is only designed to detect a "Bell Cut", it does not supervise for a short on the Bell.

### 8. How do I remove Keypad Sounder on Alarm?

The keypad sounder follows the Burg Output. If you need to remove the Keypad Sounder, then you must remove the Burg Output from that zone.

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## 9. Transmitters not responding?

Open Transmitter case - Keypad should go into X-Mitter Tamper Trouble. If not:

- Check Receiver Red LED should be flashing once approx. once a second.
- Check Receiver wiring.
- Check Programming of Transmitter ID.

If Keypad does go into X-Mitter Tamper Trouble, check:

- Transmitter point is programmed correctly.
- Transmitter is wired correctly:
- If using external switch, make sure it is wired to point 1, and point 2 is jumped out.
- If using internal reed, make sure J1 is cut and both Point 1 and Point 2 terminals are jumped out.

## 10. Keypad LEDs Flicker.

The Keypad is not receiving a POLL from the Panel.

Check Keypad wiring.

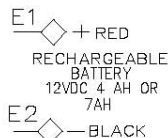
1. The Panel is in the process of being Uploaded/Downloaded.
2. The panel is powering up. LED's will flicker until panel has reset and is polling the keypad.
3. The connection from the control panel to the keypad is open.

## 11. No Keypad Entry Sounder during Entry Time?

The keypad sounder is turned off with the   command. This command will silence all Keypad sounds except keypad sounder on alarm. Enter   to turn keypad sounds back on.

## 12. No Keypad Chime?

The keypad sounder is turned off with the   command. This command will silence all Keypad sounds except keypad sounder on alarm. Enter   to turn keypad sounds back on.



# **GEM-P801 WIRING DIAGRAM**

(REFER TO INSTALLATION INSTRUCTIONS W1089)



RESIDENTIAL BURG (4 HOUR STANDBY)

COMBINED STANDBY CURRENT=500 mA

ALARM CURRENT=2.0 A

RESIDENTIAL FIRE (24 HOUR STANDBY) (3)

COMBINED STANDBY CURRENT=120 mA

ALARM CURRENT=95 mA BELL CURRENT, 275mA ADDITIONAL

AUX POWER OUTPUT

EARTH  
GROUND

COLD WATER GROUND  
CONNECTION  
USE ONLY COLD-WATER  
PIPE OR BURIED GROUND  
ROD. USE AT LEAST #16  
AWG WIRE

THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTORS SHALL BE CONNECTED TO THESE CIRCUITS UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

CIRCUIT CONTROL UNIT SMOKE DETECTORS  
ZONES DELAY-SEC

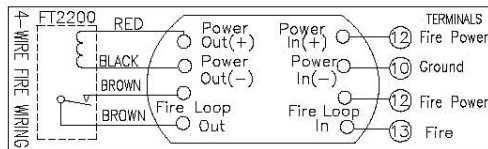
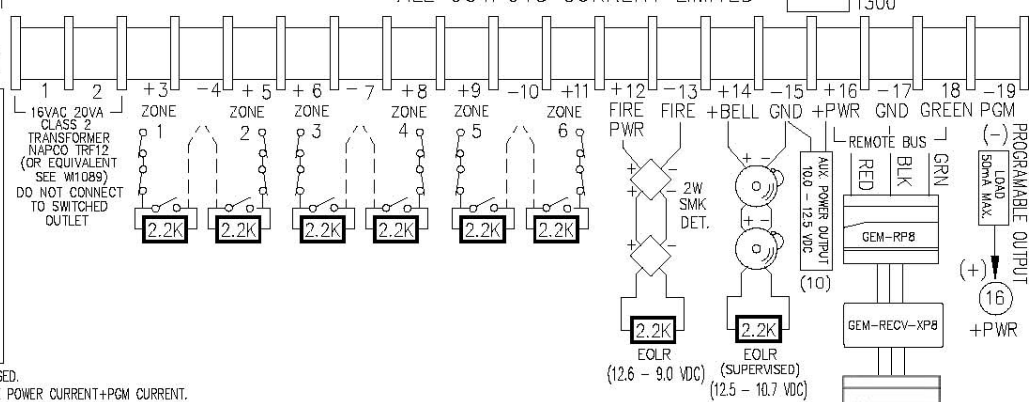
MODEL DELAY-SEC.

THE DELAY (POWER UP) (STARTUP) TIME MARKED ON THE INSTALLATION WIRING DIAGRAM OF THE SMOKE DETECTOR OR ON THE INSTALLED SMOKE DETECTOR(S) IS TO BE USED.

- 1) ALL ZONE RESISTORS MUST BE INSTALLED, EVEN IF ZONE IS NOT USED.
- 2) COMBINED STANDBY=KEYPAD CURRENT+ AUX POWER CURRENT+FIRE POWER CURRENT+PGM CURRENT.
- 3) 24 HOUR STANDBY REQUIRES A 7 AH BATTERY.
- 4) UNIT INTENDED TO BE MOUNTED VERTICALLY ON WALL.
- 5) REFER TO W1089 FOR COMPATIBLE TWO WIRE SMOKE DETECTORS. DO NOT MIX DIFFERENT MODELS.
- 6) THIS PANEL SHALL BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST ANNUALLY OR ONCE A YEAR.
- 7) THIS PANEL SUPPORTS ONLY ONE SMOKE DETECTOR IN ALARM.
- 8) USE ONLY ONE BELL IN RESIDENTIAL FIRE APPLICATION.
- 9) SYSTEM MUST BE TESTED AT LEAST ONCE A WEEK IN THE AC/BATTERY MODE AND IN THE BATTERY-ONLY MODE. (CONTACT CENTRAL STATION PRIOR TO TESTING) AC MUST BE RESTORED AFTER TEST.
- 10) PANEL STOPS PROCESSING ALARMS AT 8VDC.

This equipment should be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72-1993 (National Fire Protection Association Batterymarch Park, Quincy, MA 02269), and local codes. Information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment. UL Listed Limited Energy Cable is required.

ALL OUTPUTS CURRENT LIMITED



**WARNING**  
TO PREVENT RISK  
OF ELECTRIC SHOCK  
DISCONNECT TELEPHONE  
LINES PRIOR TO SERVICING

LA1991B

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## NOTES

## NAPCO LIMITED WARRANTY

NAPCO SECURITY SYSTEMS, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for thirty-six months following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF NAPCO.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges. This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly canceled. NAPCO neither assumes, nor authorizes any other person purporting to act on its behalf to modify, to

change, or to assume for it, any other warranty or liability concerning its products. In no event shall NAPCO be liable for an amount in excess of NAPCO's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage. NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

### THE FOLLOWING STATEMENT IS REQUIRED BY THE FCC.

This equipment generates and uses radio-frequency energy and, if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class-B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient the receiving antenna; relocate the computer with respect to the receiver; move the computer away from the receiver; plug the computer into a different outlet so that computer and receiver are on different branch circuits. If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: *How to Identify and Resolve Radio-TV Interference Problems*. This booklet is available from the U.S. Government Printing Office, Washington, DC 20402; Stock No. 004-000-00345-4.



## GEM-P801 Programming Instructions

**Note:** These Programming Instructions are intended to be used in conjunction with WI1089. Please refer to WI1089 for additional information, instructions and definitions.

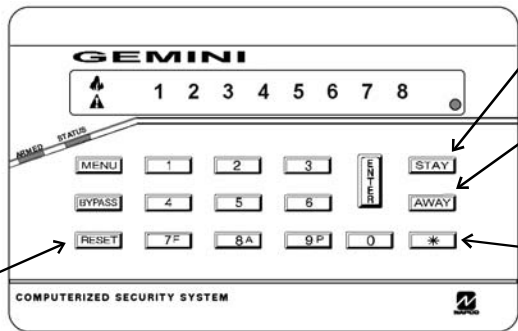
### DEALER PROGRAM MODE

#### NOTE:

After 15 minutes of keypad inactivity the keypad will emit a steady tone indicating the panel has been left in Dealer Program Mode. Enter Dealer Code to exit or press the **RESET** key to return to Dealer Program mode.

#### RESET Key

Press this key before entering a Programming Block Number.



#### Scroll Key

Use this key to scroll through data that has been entered in Programming Blocks.

#### Blank Key

Press this key to disable all features within a LED type Programming Block or to blank out digits in a Direct Entry type Programming Block.

#### Hexadecimal Data Entry

To Enter a hexadecimal digit enter the following:

|     |   |   |     |   |   |
|-----|---|---|-----|---|---|
| A = | * | 1 | D = | * | 4 |
| B = | * | 2 | E = | * | 5 |
| C = | * | 3 | F = | * | 6 |

Either the GEM-RP8 Keypad or the GEM-K800 (shown above) may be used. See WI1089.

### DEFAULTING THE PANEL

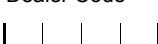
1. Remove power from the panel.
2. Remove all wiring from terminal 19 (PGM) and terminal 3.
3. Connect terminal 19 (PGM) to terminal 3.
4. Apply power to the GEM-P801 control panel.
5. After a few seconds the ARMED, READY and **▲** SYSTEM TROUBLE LED's will flash.
6. The keypad will beep 3 times indicating the panel default values have been loaded.
7. Turn off Power and remove wiring between terminal 19 (PGM) and terminal 3.
8. Re-install original wiring for terminal 19 (PGM) and terminal 3 then reapply power.

**Note:** Any programming in *Dealer Options 1* [96] and *Dealer Options 2* [97] will not be defaulted. If *Dealer Code Lockout* has been programmed the panel will not default the Dealer Code. The Event Log will be erased when the panel is defaulted.

### Entering Dealer Program Mode

Enter **MENU** **8A**

Dealer Code



(4) (5) (6) (7)

Default Dealer Code shown in parentheses

|  |         |          |                                                                                                          |
|--|---------|----------|----------------------------------------------------------------------------------------------------------|
|  | ARMED   | ON       | Indicates the panel is in Dealer Program Mode. The panel is ready for a programming block to be entered. |
|  | STATUS  | OFF      |                                                                                                          |
|  | TROUBLE | FLASHING |                                                                                                          |

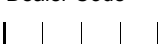
#### NOTE:

Entering Dealer Program Mode is not permitted while the panel is Armed, Reporting, or the Bell Output is on. To Enter Dealer Mode while the Bell is ON or the panel is Reporting or Armed; power up the panel and enter Dealer Mode within the first 3 minutes. Pressing the **RESET** key clears the 3 minute timer.

### Exiting Dealer Program Mode

Enter **RESET** **MENU** **8A**

Dealer Code



(4) (5) (6) (7)

|  |         |          |                                                                                          |
|--|---------|----------|------------------------------------------------------------------------------------------|
|  | ARMED   | FLASHING | Indicates the panel is Ready to exit Dealer Program Mode. Enter the Dealer Code to exit. |
|  | STATUS  | FLASHING |                                                                                          |
|  | TROUBLE | FLASHING |                                                                                          |

**Note:** Unattended downloading from a computer is not allowed for Fire Alarm or UL installations.

## Types of Programming Blocks

### LED Programming Block

Enable features by pressing the key that corresponds to the associated feature; the LED will turn ON. To disable a feature press the key again; the LED will turn OFF. To disable all features within a LED Type Programming Block press the **AWAY** key; all LED's will turn OFF.

#### 1 LED Programming Block Example

Program zones 2 and 3 as *Follower Zones*.

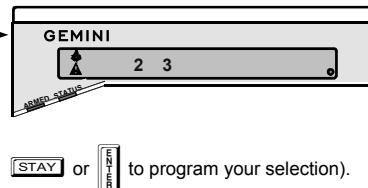
1. Enter Programming Block 02, by pressing **RESET** (Beep), then **0** **2** (Beep).
2. Press the **2** key to select zone 2.
3. Press the **3** key to select zone 3.
4. Press **RESET** **STAY** or **AWAY** to program.

| 02 Exit/Entry Follower |        |
|------------------------|--------|
| Default                |        |
| OFF                    | Zone 1 |
| OFF                    | Zone 2 |
| OFF                    | Zone 3 |
| OFF                    | Zone 4 |
| OFF                    | Zone 5 |
| OFF                    | Zone 6 |
| OFF                    | Zone 7 |
| OFF                    | Zone 8 |

LED Type Programming Block

Zone 2 and Zone 3 LEDs are ON indicating that zones 2 and 3 have been selected as follower zones.

(Be sure to press **RESET** **STAY** or **AWAY** to program your selection).



### NOTE: PGM OUTPUT

The PGM Output limits the number of features that can be programmed simultaneously (such as PGM Access).

### Direct Entry Programming Block

Enter data directly. For hexadecimal entries of A-F, use the **\*** key + **1** through **6** keys, respectively.

Use the **AWAY** key to blank out digits in Direct Entry type programming blocks. Default values are shown in parentheses.

#### 1 Direct Entry Programming Example 1

Program the panel for a 60 second *Exit Delay*.

1. Press **RESET** (Beep) **1** **0** (Beep).
2. Press **0** **6** **0**.

| 10 Exit Delay                 |                     |
|-------------------------------|---------------------|
| 0                             | Exit Delay, seconds |
| 6                             |                     |
| 0                             |                     |
| (0) (4) (5) Maximum Entry 255 |                     |

Direct Entry Type Programming Blocks

#### 2 Direct Entry Programming Example 2

(Hexadecimal data entry)  
Program *Telephone Prefix Number* with a 9E.

1. Press **RESET** (Beep) **4** **4** (Beep).
2. Press **9** **P**.
3. Press **\***.
4. Press **5**.

| 44 Dialing Prefix |  |
|-------------------|--|
| 9                 |  |
| E                 |  |
|                   |  |
|                   |  |

|  |         |          |                                                                                                                                                |
|--|---------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|
|  | ARMED   | OFF      | Indicates the panel is in Dealer Program Mode; the next digit entered will be interpreted as a Hexadecimal digit. Valid entries are 1-6 (A-F). |
|  | STATUS  | FLASHING |                                                                                                                                                |
|  | TROUBLE | FLASHING |                                                                                                                                                |

**IMPORTANT NOTE** This manual supports keypad programming with both the older GEM-RP8 and the new GEM-K800 "K Series" keypad (which offers new STAY / AWAY / MENU and ENTER buttons). While this manual only depicts the GEM-K800 keypad buttons, either keypad may be used. **Note:** For consistency, it is recommended that all keypads either be all "classic" or all "K Series"—both keypad types should not be used in one alarm system. Program Mode is the same for both keypads; only the button names have changed, as follows:

The **FUNCTION** / **MENU** buttons and the **OFF** / **ENTER** buttons operate identically (in Program Mode) for both keypads. The **INTERIOR** / **STAY** ("NEXT/YES") buttons operate identically (in Program Mode) for both keypads. The **INSTANT** / **AWAY** ("PRIOR/NO") buttons operate identically (in Program Mode) for both keypads.

## Viewing Data in Programming Blocks

To view data within a programming block, press **[RESET]** and enter the Program Block Number to view the 1st digit of data. Press the **[STAY]** key to view the 2nd digit and continue pressing **[STAY]** until all digits within the Block have been viewed. Data will be displayed in the binary format shown in the table below:

| Value   | Data Displayed | Value | Data Displayed |
|---------|----------------|-------|----------------|
| 0/Blank |                | 8     | 4              |
| 1       | 1              | 9     | 1 4            |
| 2       | 2              | *A/0  | 2 4            |
| 3       | 1 2            | B     | 1 2 4          |
| 4       | 3              | C     | 3 4            |
| 5       | 1 3            | D     | 1 3 4          |
| 6       | 2 3            | E     | 2 3 4          |
| 7       | 1 2 3          | F     | 1 2 3 4        |

### \*NOTE:

In the following Programming Blocks, data that has been entered as a '0' will be displayed as an 'A': *Subscriber ID Numbers, Phone Numbers, Pager Leading and Trailing digits and Report Codes.*

| Zone # | Bit Value |
|--------|-----------|
| 1      | 1         |
| 2      | 2         |
| 3      | 4         |
| 4      | 8         |

For Technical Assistance,  
Contact the NAPCO Toll  
Free Helpline ☎  
(800) 645-9440

### NOTE:

The Following Programming Options are not permitted for UL installations: [05], [06], [23-2], [26-3] and [26-4].

The "+" symbol next to a programming Block indicates the programming option is not permitted for UL installations.

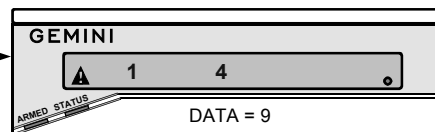
The † symbol next to a programming Block indicates features that are specifically required by SIA CP-01.

### Example: Viewing the Dialing Prefix

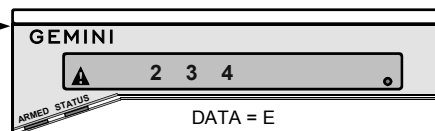
A Dialing Prefix of 9E has been programmed at Programming Block Number 44 (outside access number). Follow the steps below to view the data:

- ① Press **[RESET]** **4** **4** to enter Programming Block 44.

The 1st digit of Programming Block 44 is displayed.



- ② Press the **[STAY]** key to view the 2nd digit.



### NOTE:

For information about programming blocks, refer to GEM-P801 Installation Manual W11089.

## Zone Features

### † 00 Exit/Entry Zones

Default  
☒ ON ☐ Zone 1  
☐ OFF ☐ Zone 2  
☐ OFF ☐ Zone 3  
☐ OFF ☐ Zone 4  
☐ OFF ☐ Zone 5  
☐ OFF ☐ Zone 6  
☐ OFF ☐ Zone 7  
☐ OFF ☐ Zone 8

### 01 Home/Away with Delay Zones

Default  
☐ OFF ☐ Zone 1  
☐ OFF ☐ Zone 2  
☐ OFF ☐ Zone 3  
☐ OFF ☐ Zone 4  
☐ OFF ☐ Zone 5  
☐ OFF ☐ Zone 6  
☐ OFF ☐ Zone 7  
☐ OFF ☐ Zone 8

### 02 Exit/Entry Follower Zones

Default  
☐ OFF ☐ Zone 1  
☐ OFF ☐ Zone 2  
☐ OFF ☐ Zone 3  
☐ OFF ☐ Zone 4  
☐ OFF ☐ Zone 5  
☐ OFF ☐ Zone 6  
☐ OFF ☐ Zone 7  
☐ OFF ☐ Zone 8

### 03 Auto Bypass Reentry Zones<sup>†</sup>

Default  
☐ OFF ☐ Zone 1  
☐ OFF ☐ Zone 2  
☐ OFF ☐ Zone 3  
☐ OFF ☐ Zone 4  
☐ OFF ☐ Zone 5  
☐ OFF ☐ Zone 6  
☐ OFF ☐ Zone 7  
☐ OFF ☐ Zone 8

### 04 24 Hour Protection Zones

Default  
☐ OFF ☐ Zone 1  
☐ OFF ☐ Zone 2  
☐ OFF ☐ Zone 3  
☐ OFF ☐ Zone 4  
☐ OFF ☐ Zone 5  
☐ OFF ☐ Zone 6  
☐ OFF ☐ Zone 7  
☐ OFF ☐ Zone 8

### 05 40 ms Loop Response Zones<sup>†</sup>

Default  
☐ OFF ☐ Zone 1  
☐ OFF ☐ Zone 2  
☐ OFF ☐ Zone 3  
☐ OFF ☐ Zone 4  
☐ OFF ☐ Zone 5  
☐ OFF ☐ Zone 6

† Features specifically required by SIA CP-01.

‡ Not permitted for UL installations.

### 06 Disable EOL Resistor<sup>†</sup>

Default  
☐ OFF ☐ Zone 1  
☐ OFF ☐ Zone 2  
☐ OFF ☐ Zone 3  
☐ OFF ☐ Zone 4  
☐ OFF ☐ Zone 5  
☐ OFF ☐ Zone 6

### † 07 Burg (Steady) Output

Default  
☒ ON ☐ Zone 1  
☒ ON ☐ Zone 2  
☒ ON ☐ Zone 3  
☒ ON ☐ Zone 4  
☒ ON ☐ Zone 5  
☒ ON ☐ Zone 6  
☒ ON ☐ Zone 7  
☒ ON ☐ Zone 8

### 08 Programmable Output (PGM)

Default  
☒ ON ☐ Zone 1  
☒ ON ☐ Zone 2  
☒ ON ☐ Zone 3  
☒ ON ☐ Zone 4  
☒ ON ☐ Zone 5  
☒ ON ☐ Zone 6  
☒ ON ☐ Zone 7  
☒ ON ☐ Zone 8

### 09 Selective Bypass

Default  
☒ ON ☐ Zone 1  
☒ ON ☐ Zone 2  
☒ ON ☐ Zone 3  
☒ ON ☐ Zone 4  
☒ ON ☐ Zone 5  
☒ ON ☐ Zone 6  
☒ ON ☐ Zone 7  
☒ ON ☐ Zone 8

## System Times

### 10 Exit Delay

Exit Delay, seconds  
 (0) (6) (0) Set 60 seconds in UL Installations.

15-255 (Non-CP-01) and 45-255 (CP-01) are valid entries. SIA CP-01 Required Default = 60 seconds

### 11 Entry Delay

Entry Delay, seconds  
 (0) (3) (0) 30-255 are valid entries.

Note: Default time is actually 30 sec. Any time programmed will be added to 30 sec. SIA CP-01 Required Default = 30 seconds

### 12 Burg (Steady) Output Time-out

Bell Time-out, minutes  
 (0) (0) (5) Maximum Entry 255; UL minimum = 5.

### 13 Fire (Pulsed) Output Time-out

Bell Time-out, minutes  
 (0) (0) (0) Maximum Entry 255; UL minimum = 15.

### 14 Test Timer Interval

Test Timer/Line Test, days  
 (0) (0) (0) Maximum Entry 255

Note: The programming for the Abort Window for all non-fire zones is as follows: Minimum, 15 sec., Maximum, 45 sec., Default Time, 30 sec. This feature may be disabled by Zone or Zone type. In accordance with UL standards, the aggregate of the Entry Delay [11] and Abort Window [79] will not exceed 1 minute.

## System Times

### 15 Line Cut Time-to-Fail (Disabled = 000)

Line Cut Time-to-Fail, seconds  
(0) (0) (0) **Enable Feature**-Valid Entries 10-255

### 16 Wireless Supervisory Timer

Supervisory Timer, hours  
(1) (2) Maximum Entry 26  
\*See Note 4

### 17 Wireless Smoke Supervisory Timer

Smoke Supervisory Timer, hours  
(4) Maximum Entry 4

### 18 Test Timer Offset

Test Timer, hours  
(1) (2) Maximum Entry 23

### 29 Chime Time

Chime Time, 1/4 seconds  
(4) Valid Entries 2-9

## SIA CP-01 Features

### 70 SIA CP-01 Features

Default  
† ☐ ON ☐ Zn1 ON=Exit Restart Enabled  
† ☐ ON ☐ Zn2 ON=Convert Away to Stay if no Exit  
☐ OFF ☐ Zn3 OFF=Bell Chirp on all Arming and Closing Ringback  
☐ OFF ☐ Zn4 OFF=Zone 6 as Auxiliary Zone

## System Features

### 20 Keypad Features 1

Default  
☐ OFF ☐ Zn1 LED ON = \*Keypad Fire ( 7F  \*)  
☐ OFF ☐ Zn2 LED ON = \*Keypad AUX ( 8A  \*)  
☐ ON ☐ Zn3 LED ON = \*Keypad Panic ( 9P  \*)  
☐ OFF ☐ Zn4 LED ON = \*Ambush (8th User Code)  
\*See Note 1

### 21 Keypad Features 2

Default  
☐ ON ☐ Zn1 LED ON = Audible panic  
† ☐ ON ☐ Zn2 LED ON = Exit/Entry with Urgency  
☐ ON ☐ Zn3 LED ON = Display Bypass (ARMED)  
☐ OFF ☐ Zn4 LED ON = Disable Code Entry Beeps

### 22 Miscellaneous Features 1

Default  
☐ OFF ☐ Zn1 LED ON = Abort Delay  
☐ ON ☐ Zn2 LED ON = Easy Arm/Easy Exit  
☐ ON ☐ Zn3 LED ON = Swinger Shutdown  
☐ OFF ☐ Zn4 LED ON = Bell on Line Cut (Armed)

### 23 Programmable Output (PGM) Features 1

Default  
☐ OFF ☐ Zn1 LED ON = Audio Verification  
☐ OFF ☐ Zn2 LED ON = \*Access Output ( FUNCTION  3)<sup>†</sup>  
☐ OFF ☐ Zn3 LED ON = \*Follow Keypad Sounder  
☐ ON ☐ Zn4 LED ON = Chirp Bell on Remote (Keyfob) Arm  
\*See Note 2

#### NOTE 1:

Additional programming required for reporting, see Blocks [36]&[56].  
**UL Installations:** If Keypad Fire [20-1] is enabled, the keypad must be mounted within (3) three feet from the Control Panel with no intervening barrier, such as a wall or a ceiling.

#### NOTE 2:

Cannot be programmed with any other Programmable Output (PGM) Feature.

### 24 Programmable Output (PGM) Features 2

Default  
☐ OFF ☐ Zn1 LED ON = Fire  
☐ OFF ☐ Zn2 LED ON = AUX  
☐ OFF ☐ Zn3 LED ON = Panic  
☐ OFF ☐ Zn4 LED ON = Test Timer

### 25 Programmable Output (PGM) Features 3

Default  
☐ OFF ☐ Zn1 LED ON = AC Fail  
☐ OFF ☐ Zn2 LED ON = Low Battery  
☐ OFF ☐ Zn3 LED ON = \*Trouble  
☐ OFF ☐ Zn4 LED ON = Armed  
\*See Note 3

### 26 Miscellaneous Features 2

Default  
☐ OFF ☐ Zn1 LED ON = Momentary Keyswitch Arming  
☐ OFF ☐ Zn2 LED ON = Reserved  
☐ OFF ☐ Zn3 LED ON = Inhibit Fail to Communicate<sup>†</sup>  
☐ OFF ☐ Zn4 LED ON = Inhibit Low Battery Display<sup>†</sup>

### 27 Miscellaneous Features 3

Default  
☐ OFF ☐ Zn1 LED ON = Keyswitch Polarity  
☐ OFF ☐ Zn2 LED ON = Reserved  
☐ OFF ☐ Zn3 LED ON = Reserved  
☐ OFF ☐ Zn4 LED ON = Reserved

#### NOTE 3:

Includes Bell Cut, Fire Trouble, Receiver Fail-to-Respond, Receiver Tamper, Receiver JAM, Wireless Transmitter Low Battery, Wireless Supervisory Failure, Wireless Smoke Low Battery, Wireless Smoke Supervisory Failure, and Wireless Tamper.

#### NOTE 4:

**UL Installations:** Block 16, Wireless Supervisory Timer must be set 10 hours.

The "\*" symbol indicates features that are specifically required by SIA CP-01.



## Backup Telephone Programming

### 40 Subscriber ID Number (Telco 2)

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

### 41 Telephone Number 2

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

#### NOTE:

If 1<sup>st</sup> location is not D, E or F, then a 4-second delay occurs, prior to dialing the 1<sup>st</sup> digit.

### 42 Receiver Format

- |     |                      |
|-----|----------------------|
| [1] | Ademco Slow          |
| [2] | Radionics Slow       |
| [3] | Silent Knight Fast   |
| [4] | Universal High Speed |
| [5] | Reserved             |
| [6] | Ademco Point ID      |
| [7] | Pager                |

→ 

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

 (4)

Note: For CP-01 compatibility, set for point ID [6] format.

### 43 Receiver Options

Default

- ☒ ON ☐ Zn 1 LED ON = 2300 Hz Handshake/Kissoff
- ☐ OFF ☐ Zn 2 LED ON = Sumcheck
- ☐ OFF ☐ Zn 3 LED ON = Single Digit
- ☐ OFF ☐ Zn 4 LED ON = No Handshake

### 44 Dialing Prefix

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

Dialing Prefix for Telco 1, Telco 2 & Telco 3.

### 45 Communicator Features 1

Default

- † ☒ ON ☐ Zn 1 LED ON = Communicator Enabled
- ☒ ON ☐ Zn 2 LED ON = DTMF w/ Rotary Back up
- ☐ OFF ☐ Zn 3 LED ON = DTMF only
- ☐ OFF ☐ Zn 4 LED ON = Backup to Telco 2

### 46 Communicator Features 2

Default

- ☐ OFF ☐ Zn 1 LED ON = Enable Call Waiting Disable
- ☐ OFF ☐ Zn 2 LED ON = 2:1 Rotary Dialing
- ☐ OFF ☐ Zn 3 LED ON = Backup if < 4 attempts
- ☐ OFF ☐ Zn 4 LED ON = \* Don't Clear Fail to Comm.

\*See Note 1

The "†" symbol indicates features that are specifically required by SIA CP-01.

#### NOTE 1:

If Don't Clear Fail to Comm. is programmed, only a successful communication to Central Station will clear a Failure to Communicate system trouble.

## Pager Programming

### 47 Leading Digits

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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(0) (0) (0) (0)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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### 48 Trailing Digits

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

\*(C) \*See Note 2

### 49 Pager Option

Default

- ☐ OFF ☐ Zn 1 LED ON = Skip Alarm Data
- ☐ OFF ☐ Zn 2 LED ON = Reserved
- ☐ OFF ☐ Zn 3 LED ON = Reserved
- ☐ OFF ☐ Zn 4 LED ON = Reserved

#### NOTE 2:

C = TouchTone #. This is the typical terminating digit for most paging systems. Recommended, but may not be required by paging system. D = 2 second delay.

## Telephone Number 3 Programming

### 50 Subscriber ID Number

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

### 51 Telephone Number 3

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

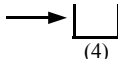
#### NOTE:

If 1<sup>st</sup> location is not D, E or F, then a 4-second delay occurs, prior to dialing the 1<sup>st</sup> digit.

### 52 Receiver Format

- [0] Disabled
- [1] Ademco Slow
- [2] Radionics Slow
- [3] Silent Knight Fast
- [4] Universal High Speed
- [5] Reserved
- [6] Ademco Point ID
- [7] Pager

**Note:** For CP-01 compatibility, set for Point ID [6] format.



### 53 Receiver Options

Default

- ☒ Zn 1 LED ON = 2300 Hz Handshake/Kissoff
- ☐ Zn 2 LED ON = Sumcheck
- ☐ Zn 3 LED ON = Single Digit
- ☐ Zn 4 LED ON = No Handshake

### 54 Zone Report, Telco 3

Default

- ☐ Zone 1
- ☐ Zone 2
- ☐ Zone 3
- ☐ Zone 4
- ☐ Zone 5
- ☐ Zone 6
- ☐ Zone 7
- ☐ Zone 8

### 55 Zone Restore Report, Telco 3

Default

- ☐ Zone 1
- ☐ Zone 2
- ☐ Zone 3
- ☐ Zone 4
- ☐ Zone 5
- ☐ Zone 6
- ☐ Zone 7
- ☐ Zone 8

### 56 System Reporting, Telco 3

Default

- ☐ Zn 1 LED ON = \*KP Fire (   )
- ☐ Zn 2 LED ON = \*KP AUX (   ) / Ambush
- ☐ Zn 3 LED ON = \*KP Panic (   )
- ☐ Zn 4 LED ON = Test Timer

\*See Note 1

### 57 System Reporting, Telco 3

Default

- ☐ Zn 1 LED ON = AC Fail Report (15 min. report delay)
  - ☐ Zn 2 LED ON = Low Battery Report
  - ☐ Zn 3 LED ON = \*Trouble Report
  - ☐ Zn 4 LED ON = Fire Report
- \*See Note 2

### 58 System Restore Report, Telco 3

Default

- ☐ Zn 1 LED ON = AC Restore Report
  - ☐ Zn 2 LED ON = Battery Restore Report
  - ☐ Zn 3 LED ON = \*Trbl Restore Report
  - ☐ Zn 4 LED ON = Fire Restore Report
- \*See Note 2

### 59 Opening Closing Report, Telco 3

Default

- ☐ Zn 1 LED ON = User 1 Reporting
- ☐ Zn 2 LED ON = User 2 Reporting
- ☐ Zn 3 LED ON = User 3 Reporting
- ☐ Zn 4 LED ON = User 4 Reporting
- ☐ Zn 5 LED ON = User 5 Reporting
- ☐ Zn 6 LED ON = User 6 Reporting
- ☐ Zn 7 LED ON = User 7 Reporting
- ☐ Zn 8 LED ON = User 8 Reporting

#### NOTE 1:

Requires features to be enabled, see block [20].

#### NOTE 2:

Includes Bell Cut, Fire Trouble, Receiver Fail-to-Respond, Receiver Tamper, Receiver JAM, Wireless Transmitter Low Battery, Wireless Supervisory Failure, Wireless Smoke Low Battery, Wireless Smoke Supervisory Failure, and Wireless Tamper.

ZONE 3 TX LOW BATTERY      "RF TRAN LOW BAT, ZN03"  
SMOKE 2 LOW BATTERY      "RF TRAN LOW BAT, ZN10"

## Report Codes

### 60 Zone Report Codes

Zone 1 Alarm Code

(3)

Zone 2 Alarm Code

(3)

Zone 3 Alarm Code

(3)

Zone 4 Alarm Code

(3)

Zone 5 Alarm Code

(3)

Zone 6 Alarm Code

(3)

Zone 7 Alarm Code

(3)

Zone 8 Alarm Code

(3)

### 61 Point ID Report Codes

Zone 1 Alarm Code

(3)

Zone 2 Alarm Code

(3)

Zone 3 Alarm Code

(3)

Zone 4 Alarm Code

(3)

Zone 5 Alarm Code

(3)

Zone 6 Alarm Code

(3)

Zone 7 Alarm Code

(3)

Zone 8 Alarm Code

(3)

#### NOTE:

The second digit of the Report Code is the number of the zone that is reporting. For example zone 5 report code (default of 3) would be 35.

- 1 FIRE
- 2 PANIC
- 3 BURGLARY
- 4 HOLDUP
- 5 GENERAL ALARM
- 6 RESERVED
- 7 GAS ALARM
- 8 HEAT ALARM
- 9 RESERVED
- A AUXILIARY
- B 24 HOUR ALARM

Note: See page 11 for complete listing of Point ID report codes.

### 62 Zone Codes

Zone 1, 2, 3, 4, 5, 6, 7 & 8 Restore Code

(E)

Zone 1, 2, 3, 4, 5, 6, 7 & 8 Trouble Code

(F)

### 63 System Report Codes

Keypad Fire ( 7F  \*)

(1) (1)

Keypad AUX ( 8A  \*)

(2) (3)

Keypad Panic ( 9P  \*)

(2) (1)

Test Timer

(F) (F)

AC Fail

(F) (9)

Low Battery

(F) (8)

\*Trouble

(F) (1)

Fire

(1) (1)

\*See Note 1

### 64 System Restore Code

(E)

#### NOTE 1:

Includes Bell Cut, Fire Trouble, Receiver Fail-to-Respond, Receiver Tamper, Receiver JAM, Wireless Transmitter Low Battery, Wireless Supervisory Failure, Wireless Smoke Low Battery, Wireless Smoke Supervisory Failure, and Wireless Tamper.

### 65 Opening and Closing Code

(C) Closing Code

(B) Opening Code

### 66 Ambush Report Code

(2) (2)

## Enhanced Communicator Features

### 67 Telephone Number 1

Default

†  ON  Zn 1 LED ON = Send Cancel Report

OFF  Zn 2 LED ON = Conditional Closing

OFF  Zn 3 LED ON = Reserved

OFF  Zn 4 LED ON = Reserved

### 68 Telephone Number 3

Default

OFF  Zn 1 LED ON = Opening after Alarm (Cancel Code)

OFF  Zn 2 LED ON = Conditional Closing

OFF  Zn 3 LED ON = Reserved

OFF  Zn 4 LED ON = Reserved

### 69 Miscellaneous Features 4

Default

OFF  Zn 1 LED ON = Reserved

OFF  Zn 2 LED ON = Reserved

OFF  Zn 3 LED ON = Chime Disable on Power Up

OFF  Zn 4 LED ON = Fire Alarm Verification

The "\*" symbol indicates features that are specifically required by SIA CP-01.

## Wireless

### Transmitters

|           | RF ID #                                                                                                                         | Point                |
|-----------|---------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 71 Zone 1 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> |
| 72 Zone 2 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> |
| 73 Zone 3 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> |
| 74 Zone 4 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> |
| 75 Zone 5 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> |
| 76 Zone 6 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> |
| 77 Zone 7 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> |
| 78 Zone 8 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> |

Enter the RF ID# located on the Transmitter, Key Fob and Smoke Detector labels.



Enter the point number to be associated with the zone. If only one point of GEM-TRANS2 is used, enter a 1 in this location. For GEM-GB, GEM-DT, GEM-PIR enter a 1 in this location.

### Programming Example

Map point 1 of a window door transmitter, with RF ID# 0012B0:0 to Zone 3.

73 Zone 3    0 | 0 | 1 | 2 | B | 0 | : 0 | 1 |

1. Enter Dealer Mode.

2. Enter **RESET** (beeps) **7F** **3** (beeps)

3. Enter

**0** **0** **1** **2** **\*** **2** **0** **0**

4. Enter **1** (beeps)

↑  
Hexadecimal B Entry

Note: If the RF ID# in step 3 is not entered correctly the keypad will emit a 1 second tone indicating incorrect entry. Repeat steps 2 - 4 above.

### Keyfobs

|             | RF ID #                                                                                                                         | AUX 1                | AUX 2                |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
| 81 Keyfob 1 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> | <input type="text"/> |
| 82 Keyfob 2 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> | <input type="text"/> |
| 83 Keyfob 3 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> | <input type="text"/> |
| 84 Keyfob 4 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : | <input type="text"/> | <input type="text"/> |

### AUX 1 & 2 Programming

- 1 Panic
- 2 AUX
- 3 Bell ON
- 4 PGM
- 5 Instant
- 6 Access on PGM
- 7 Full Set System
- 8 Interior

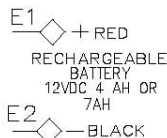
### Smoke Detectors

|            | RF ID #                                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------------------------------|
| 85 Smoke 1 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : |
| 86 Smoke 2 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : |
| 87 Smoke 3 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : |
| 88 Smoke 4 | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : |

### Hexadecimal Data Entry

To enter a hexadecimal digit enter the following: A= **\*** **1** B= **\*** **2** C= **\*** **3** D= **\*** **4** E= **\*** **5** F= **\*** **6**





COLD WATER GROUND  
CONNECTION  
USE ONLY COLD-WATER  
PIPE OR BURIED GROUND  
ROD. USE AT LEAST #16  
AWG WIRE

## GEM-P801 WIRING DIAGRAM

(REFER TO INSTALLATION INSTRUCTIONS W1089)



RESIDENTIAL BURG (4 HOUR STANDBY)

COMBINED STANDBY CURRENT=500 mA

ALARM CURRENT=2.0 A

RESIDENTIAL FIRE (24 HOUR STANDBY)(3)

COMBINED STANDBY CURRENT=120 mA

ALARM CURRENT=95 mA BELL CURRENT, 275mA ADDITIONAL

AUX POWER OUTPUT

EARTH  
GROUND

THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTORS SHALL BE CONNECTED TO THESE CIRCUITS UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

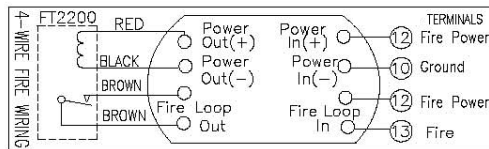
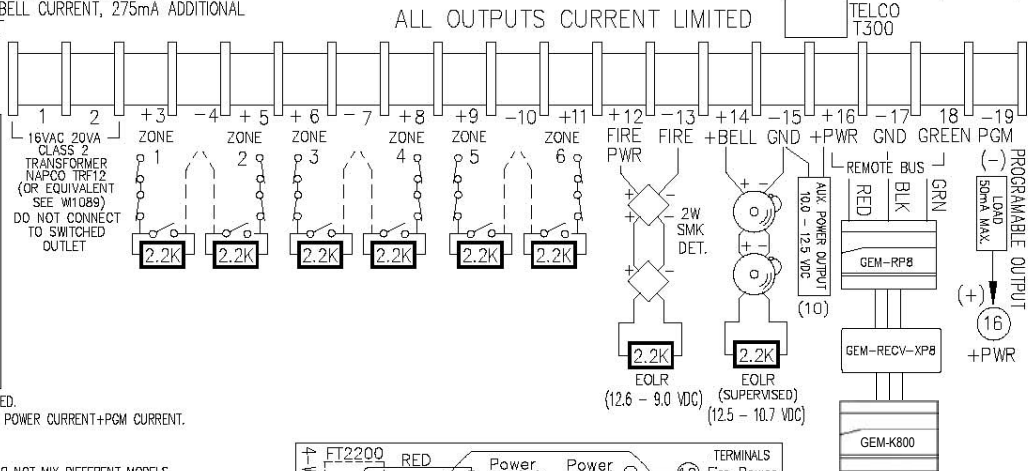
CIRCUIT CONTROL UNIT SMOKE DETECTORS ZONES DELAY-SEC

MODEL DELAY-SEC.

THE DELAY (POWER UP) (STARTUP) TIME MARKED ON THE INSTALLATION WIRING DIAGRAM OF THE SMOKE DETECTOR OR ON THE INSTALLED SMOKE DETECTOR(S) IS TO BE USED.

- 1) ALL ZONE RESISTORS MUST BE INSTALLED, EVEN IF ZONE IS NOT USED.
- 2) COMBINED STANDBY=KEYPAD CURRENT+AUX POWER CURRENT+FIRE POWER CURRENT+PGM CURRENT.
- 3) 24 HOUR STANDBY REQUIRES A 7 AH BATTERY.
- 4) UNIT INTENDED TO BE MOUNTED VERTICALLY ON WALL.
- 5) REFER TO W1089 FOR COMPATIBLE TWO WIRE SMOKE DETECTORS. DO NOT MIX DIFFERENT MODELS.
- 6) THIS PANEL SHALL BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST ANNUALLY OR ONCE A YEAR.
- 7) THIS PANEL SUPPORTS ONLY ONE SMOKE DETECTOR IN ALARM.
- 8) USE ONLY ONE BELL IN RESIDENTIAL FIRE APPLICATION.
- 9) SYSTEM MUST BE TESTED AT LEAST ONCE A WEEK IN THE AC/BATTERY MODE AND IN THE BATTERY-ONLY MODE.  
(CONTACT CENTRAL STATION PRIOR TO TESTING) AC MUST BE RESTORED AFTER TEST.
- 10) PANEL STOPS PROCESSING ALARMS AT 8VDC.

This equipment should be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72-1993 (National Fire Protection Association Batterymarch Park, Quincy, MA 02269). and local codes. Information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment. UL Listed Limited Energy Cable is required.



**WARNING**  
TO PREVENT RISK  
OF ELECTRIC SHOCK  
DISCONNECT TELEPHONE  
LINES PRIOR TO SERVICING

LA1911B

**Warning:** The use of non-NAPCO wireless devices with this control panel has not been evaluated by UL and voids the UL listing. In addition, the performance of these devices can not be guaranteed as compatible with NAPCO control panels.

## ADDENDUM FOR CANADIAN MODELS

**NOTICE:** The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**Caution:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

**NOTICE:** The ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to telephone interface. The termination of an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

### CSA-LISTED TRANSFORMERS

The following power transformers are CSA-Listed.

Magnetic Consultants: MG1620, MG1630, MG1640, PG1620

Frost: FTC2016, FTC3016, FTC4016

Hammond: BD2F

This digital apparatus does not exceed Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.