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PROGRAMMING INSTRUCTIONS

HARDWIRE = *WIRELESS*

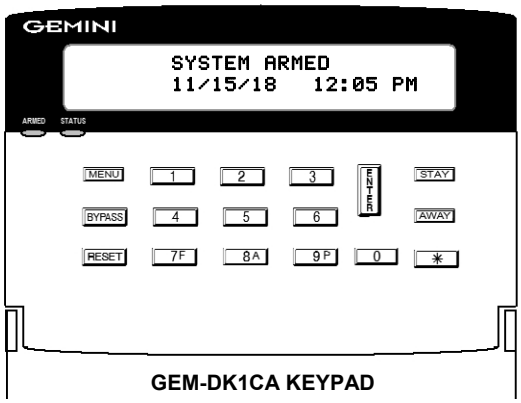
GEMINI™

GEM-P1664

CONTROL PANEL/COMMUNICATOR

Programming the **GEM-P1664** Control Panel with the **GEM-K1VPS** Keypad and the **GEM-DK1CA** Keypad

GEM-K1VPS KEYPAD



GEM-DK1CA KEYPAD

Quick Start:

1. Refer to the wiring diagram and connect the **Siren**, **Aux. Power**, **PGM Output**, **Remote Bus**, **earth ground**, **Zone and Telephone wiring**.
   NOTE: See Installation Instructions (WI1811).
2. Connect AC power first and then the battery.
3. Access the **Easy Menu Driven Program Mode**:

   Press [4] [5] [6] [7F] [8A] [9P] [MENU]

   Default Dealer Code

☞ *Press* NO ([AWAY]) until "ACTIVATE PROGRAM Y/N" appears on the programmer display.

☞ *Press* YES ([STAY]) to Enter Dealer Program Mode. Go to page 5.

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THIS MANUAL INCLUDES FEATURES WHICH ARE ONLY AVAILABLE IN CONTROL PANEL FIRMWARE VERSION 31 OR LATER.

IMPORTANT PROGRAMMING INFORMATION

The following System and Keypad Options **must** be programmed for proper control panel operation:

- Automatic Interior Bypass/Easy Exit (address 1424, option 1)
- Interior Normally Bypassed (address 1422, option 1)

CHANGES FROM PREVIOUS EDITION

The following changes have been made to this manual (WI1810A) since the previous edition (WI1810):

- Corrected the "AREA ARMING OPTIONS (ADDRESS 1469-1470)", page 25.
- Removed Test Timer from the Easy Menu Driven Program Mode.
- Page 6, corrected example: If 10 entered, converted to 12 automatically.
- Page 9, removed reference to "Enable Manager's Mode" from Area Options table.
- Page 19, changed "Enable Manager's Mode" to "RESERVED" (in address table 1421).
- Page 22, Touch-Tone Dialing Only enabled by default.
- Page 28, added additional information regarding the GEM-TEMP64 Temperature Sensor module.
- Pages 29-32, added "Carbon Monoxide" to Zone Options table, addresses 955, 1019, 1083, 1147, 1211, 1275, 1339 and 1403.

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. ***For systems that include CO detectors, the system must be monitored by a central station, and at least one model GEM-RP1CAe2 or GEM-K1 series 2-line LCD keypad must be used.***

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Refer to accompanying Panel Installation Instructions (WI1811) for installation information.

SYSTEM PROGRAMMING OPTIONS

INTRODUCTION

The Gemini GEM-P1664 control panel may be programmed by various means, each of which will be covered in detail in the sections that follow. Keypad displays shown are for a GEM-DK1CA or a GEM-K1VPS.

✓**Downloading From a Computer.** This is the preferred method of programming. The panel may be downloaded from (or uploaded to) an IBM PC-compatible computer, either locally or remotely. Napco's PCD-Windows Quickloader software features context-sensitive help screens as well as an error-checking utility that prevents programming of incompatible or conflicting data to ensure proper panel operation. **Note:** Unattended downloading from a computer is not allowed for Fire Alarm or UL installations.

✓**Easy Menu-Driven Program (Dealer Program) Mode - Keypad Programming.** The Easy Menu-Driven Program Mode allows keypad programming of number of zones in area 1, panel zone doubling, number of fire zones (both 4-wire and 2-wire), local or Central Station reporting, number of exit/entry zones, number of interior zones, number of 24 hour zones, number of chime zones, Chime 2 zones, Exit/Entry2 zones, 50ms loop response zones (**Note:** 750mS is required for Loop Response time in UL installations), aux output activated on alarm zones, sensor watch zones, keypad sounder on alarm zones, auto bypass re-entry zones, EOLR zones, number of keypads in area 1, Central Station telephone number, Central Station account number, Central Station receiver format, User Codes, RF transmitter points, RF keyfob transmitters, zone descriptions, date/time, dealer code, Telco line fault test, Burg output chirp on keyfob, keypad time/date display, enable CP-01 programming, and clear dealer program/cold start. For new panels, a custom default program may be created at the keypad. A menu-driven utility prompts the installer to configure the system. Further detailed customization is accomplished in the Direct Address Program Mode.

✓**Direct Address (Dealer Program) Program Mode - Keypad Programming.** The Direct Address Program Mode is an extension of the Dealer Program Mode wherein data is entered at the keypad by location. This mode is accessed from the Easy Menu Driven Program Mode by pressing the RESET button at any time.

✓**User Program Mode - Keypad Programming.** The User Program Mode is intended for authorized users and is limited to keypad programming of User Codes, Time, Date and Zone Descriptions.

DOWNLOADING FROM A COMPUTER

The control-panel program may be downloaded from the computer by any of the following methods.

Local Downloading

(**Note:** This procedure should be used after installation, after peripheral devices are connected).

For direct high-speed data transfer to the control panel from a desktop computer, connect the download jack (JP2) on the panel to the LOCAL jack (J3) on the Napco PCI2000/3000 computer interface using the supplied 6-conductor cable. (Refer to PCI2000/3000 Installation Instructions WI443 for wiring diagram and procedures).

Similarly, a high-speed local download may be made in the field using a notebook or laptop computer. Connect JP2 on the control panel to a Napco PCI-MINI computer interface using the 6-conductor cable supplied. (Refer to PCI-MINI Installation Instructions WI767).

Remote Downloading

(Also see PCI2000/3000 Installation Instructions WI443). **Note:** Unattended downloading from a computer is not allowed for Fire Alarm or UL installations.

Function Mode

Start by establishing a Telco connection between the computer operator and the installer. During this procedure, voice contact will be lost, therefore both the installer and the computer operator should be familiar with the operation. When a steady high-pitched tone is heard at the site phone, access the "ACTIVATE DOWNLOAD" Function (see Keypad Programming Modes), then press the ENTER button or the **NEXT/YES** button; the site phone will go dead. Hang up the phone and wait for a call from the central station confirming a successful download.

Callback Method

An installed, unattended panel may be programmed or reprogrammed remotely using the Callback-Method Download feature of the PCD-Windows software. Remote downloading requires a modem compatible with the PCI2000/3000. Upon answering the call from the computer, the panel will verify the Download Security Code and, if confirmed, will establish a connection. If a Callback Number is programmed into the panel, the panel will automatically disconnect and call the computer at this number before establishing a connection.

EASY MENU DRIVEN PROGRAM MODE

DEALER PROGRAM - PRELIMINARY INFORMATION

☞ The Default Dealer Code is [4] [5] [6] [7F] [8A] [9P]. Use this code to enter the Dealer Program Mode to program a custom Dealer Code, which replaces the Default Dealer Code. If you clear your Dealer Code, use the Default Dealer Code once again to enter programming.

☞ After entering codes or data, press the save [ENTER] button. Data will not be stored into memory unless [ENTER] is pressed.

☞ If the keypad is in the Program Mode and no activity is detected for longer than 4 minutes, a steady tone will sound.

☞ Silence the sounder by the [*] button to continue, or by pressing the [RESET] button to exit.

☞ When programming a Multiple Area System, Direct Address Programming Mode must be used to complete the program.

ACCESSING DEALER PROGRAM MODE

1. Press [4] [5] [6] [7F] [8A] [9P] [MENU]

Dealer Code (Default =

***2. Press PRIOR/NO* button until "ACTIVATE PROGRAM Y/N" appears on LCD screen.**

***3. Press NEXT/YES* button to Enter Dealer Program Mode.**

***4. Press* [RESET] [RESET] to Exit Dealer Program Mode when finished.**

CUSTOMIZING A DEFAULT PROGRAM

For new panels, you can design a default program that will best suit your application. Using this procedure, you will configure the panel for:

- Number of Zones in Area 1
- Panel Zone Doubling
- Fire Zones in Area 1
- 2-Wire Fire Zones in Area 1
- Local or Central Station Reporting System
- Exit/Entry Zones in Area 1
- Interior Zones in Area 1
- 24 Hour Zones in Area 1
- Chime Zones in Area 1
- Chime 2 Zones in Area 1
- Exit/Entry2 Zones in Area 1
- 50mS Loop Response Zones (**Note:** 750mS is required for Loop Response time in UL installations).
- Aux Output Activated on Alarm Zones
- Sensor Watch Zones
- Keypad Sounder on Alarm Zones
- Auto Bypass re-entry Zones
- Enable no EOLR Zones
- Enable Telco Line Fault Test
- Enable Burg Output Chirp on Keyfob
- Enable CP-01 Programming
- Number of Keypads in Area 1
- Central Station Receiver 1 Tel. Number
- Central Station Receiver 1 Account Number
- Central Station Receiver 1 Format
- Enter User Codes
- RF Transmitter Points
  - Quick "Enroll" Method
- Key Fob Transmitters
- Enter Zone Descriptions
- Enter Date
- Enter Time
- Dealer Code

This procedure will automatically set up system keypads, EZMs, wireless transmitters, etc. After your basic default program has been loaded, you may alter it as necessary in the Direct Address Program Mode.

NEW PANELS: The custom default program may be created for new panels only. Once the panel has been programmed by any means, the number zones will be suppressed and cannot be changed. Should it be necessary to create a new custom default program, (a) from the Dealer Program Mode, press the [RESET] button to enter the Direct Address Program Mode; (b) access Location 2285 (Clear Program); (c) press the [ENTER] button and start over.

Keypad Easy Program Menu

To create a custom program using the GEM-DK1CA or a GEM-K1VPS keypad, simply answer the following questions and record your information on the *Easy Menu Programming Worksheet*. In each of the following steps, press MENU to set cursor, the NEXT/YES button to go forwards, the PRIOR/NO button to go backwards, ENTER to save and RESET twice to exit at any time.

```
#of Zns in Area1
Enter # Zones XX
```

(Direct Entry)

Total Number of Zones in Area 1 *(New Program Only)*

- Enter the total number of zones to be programmed for Area 1.
- Valid entries are from 01 to 64. Directly enter the total number of zones, including leading zeros.
- The system is based on groups of 4 zones each (after the first 8 zones), and will automatically round up to the next group of 4. For example, if you enter 10, it will automatically convert this to 12 zones. Press ENTER to save. Press the NEXT/YES button to proceed.

```
EZ Zone Doubling
Enabled?    Y/N
```

(Press YES or NO)

Panel Zone Doubling *(New Program Only)*

- To double the number of hardwired panel zones from 8 to 16, press YES.
- If Panel Zone doubling is not desired, press the PRIOR/NO button.
- The 16 zones will remain EOL terminated zones, requiring Normally Closed devices only.
- Refer to Wiring Diagram and Installation Instructions for wiring instructions

```
Fire Zones
Enter Zone # **
```

(Direct Entry)

Fire Zones in Area 1 *(New Program Only)*

- Enter the zone number of any Fire Zones (including 2-wire, 4-wire or wireless).
- Valid entries are from 01 to 64.
- Directly enter each zone number, including leading zeros, and press ENTER to save, and then repeat for any additional zone(s). Press the NEXT/YES button to proceed.

```
2-Wire Fire Zns
Enter Zone #  **
```

(Direct Entry)

2-Wire Fire Zones in Area 1 *(New Program Only)*

- Enter the zone number of any Fire Zone (from previous question) to be used with 2-wire smoke detectors.
- Valid entries are 07 and 08. Directly enter each zone number, including leading zeros.
- Press ENTER to save, and repeat for any additional zone(s); press NEXT/YES to proceed.

NOTE: Only zones which have been designated as Fire Zones can be programmed as 2 Wire Fire zones. JP3 must be set to "2-WF" position for 2-wire fire. (refer to Installation Instructions).

```
Report All Zones
To Central? Y/N
```

(Press YES or NO)

Local or Central Station Reporting System *(New Program Only)*
Press the NEXT/YES button for all zones to report; press the PRIOR/NO button for local system

```
Exit/Entry Zones
Enter Zone #  XX
```

(Direct Entry)

Exit/Entry Zones in Area 1 *(New Program Only)*

- Enter the zone numbers of zones to be used as Exit/Entry zones.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save and repeat for any additional zone(s); press the NEXT/YES button to proceed.

NOTE: Exit/Entry Entry time of 30 seconds will automatically be programmed.

```
Interior Zones
Enter Zone #  XX
```

(Direct Entry)

Interior Zones in Area 1 *(New Program Only)*

- Enter the zone numbers to be used as Interior Zones.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save and then repeat for any additional zone(s).
- Press the NEXT/YES button to proceed.
- All Interior zones will also be automatically programmed as "Exit/Entry Follower" and as "Power Up Delay" zones.

```
24 Hour Zones
Enter Zone #  **
```

(Direct Entry)

24 Hour Zones in Area 1 *(New Program Only)*

- Enter the zone numbers of zones to be used as 24 Hour zones.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save and repeat for any additional zone(s); press the NEXT/YES button to proceed.

NOTE: 24 Hour Zones will automatically be programmed as audible (Burg Output).

```
Chime Zones
Enter Zone #   **
```

(Direct Entry)

Chime Zones in Area 1 *(New Program Only)*

- Enter the zone numbers which are to be used as Chime Zones.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save, then repeat for any additional zone(s), press the NEXT/YES button to proceed.

NOTE: A chime time of 2 seconds will be automatically programmed.

```
Chime 2 Zones
Enter Zone #   **
```

(Direct Entry)

Chime 2 Zones in Area 1 *(New Program Only)*

- Enter the zone numbers which are to be used as Chime 2 Zones.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save, then repeat for any additional zone(s), Press the NEXT/YES button to proceed.

NOTE: A chime time of 2 seconds will be automatically programmed.

Chime 2 zones give a distinct pulsating tone when zone is faulted.

```
Exit/Entry2 Zones
Enter Zone #   **
```

(Direct Entry)

Exit/Entry2 Zones in Area 1 *(New Program Only)*

- Enter the zone numbers of zones to be used as Exit/Entry zones.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save and repeat for any additional zone(s); press the NEXT/YES button to proceed.

NOTE: An Exit/Entry 2 Entry Time of 30 seconds will automatically be programmed.

```
50mS Loop Zones
Enter Zone #   **
```

(Direct Entry)

50 mS Loop Response Zones *(New Program Only)* **Note: 750mS is required for Loop Response time in UL installations.**

- Enter the zone numbers of zones to be have a 50mS loop response.
- Valid entries are from 01 to 08. Directly enter each zone number, including leading zeros.
- Press ENTER to save, then repeat for any additional zone(s), Press the NEXT/YES button to proceed.

Note: Only panel zones 01-08 can be programmed for Quick Loop Response. All other zones can be programmed via their respective EZM's (hardwire). Time can also be adjusted via address 2280.

```
Aux Output Zones
Enter Zone #   **
```

(Direct Entry)

Aux Output Activated on Alarm Zones *(New Program Only)*

- Enter the zone numbers of zones to activate the PGM2 upon alarm.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save, then repeat for any additional zone(s), Press the NEXT/YES button to proceed.

NOTE: A PGM2 Timeout of 15 minutes will automatically be programmed.

```
Sensor Watch Zns
Enter Zone #   **
```

(Direct Entry)

Sensor Watch Zones *(New Program Only)*

- Enter the zone numbers of zones to be Sensor Watch zones.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save, then repeat for any additional zone(s), Press the NEXT/YES button to proceed.

NOTE: A Sensor Watch Time of 24 hours will automatically be programmed.

```
KP Sndr Alrm Zns
Enter Zone #   **
```

(Direct Entry)

Keypad Sounder On Alarm Zones *(New Program Only)*

- Enter the zone numbers of all zones to activate the Keypad Sounder upon alarm.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save, then repeat for any additional zone(s), Press the NEXT/YES button to proceed.

```
Auto Byp REnt Zn
Enter Zone #   **
```

(Direct Entry)

Auto Bypass Re-entry Zones *(New Program Only)* ***(Not Evaluated by UL)***

- Enter the zone numbers of zones to be Auto Bypass Re-entry zones.
- Valid entries are from 01 to 64. Directly enter each zone number, including leading zeros.
- Press ENTER to save, then repeat for any additional zone(s), Press the NEXT/YES button to proceed.
- Auto Bypass Re-entry Zones allow the system to be armed with the zone faulted but come back into the system (armed) when the zone is subsequently closed.

```
Enable No EOLR
Zones          Y/N
```

(Press YES or NO)

Enable No EOLR Zones *(New Program Only)*

- Press YES to program all zones except 24 Hr & fire zones for No End Of Line Resistor. Press NO to continue. Do NOT program this feature for UL installations.

```
Enable Telco
Line Test?     Y/N
```

(Press YES or NO)

Enable Telco Line Fault Test?

- Press YES to enable Telco Line Fault Test.
- Press NO to continue. **NOTE: If enabled, a Telco Line Fault Test Delay of 60 sec. will automatically be programmed.**

```
Enable Burg Out
Chirp?          Y/N
```

(Press YES or NO)

Enable Burg Output Chirp on KeyFob?

- Press the NEXT/YES button to enable Burg Output Chirp on KeyFob Arm / Disarm.
- Press the PRIOR/NO button to continue.

NOTE: The Burg Output will chirp once on Keyfob Arm and twice on Keyfob Disarm.

```
Enable SIA CP-01?
                Y/N
```

(Press YES or NO)

Enable SIA CP-01 Features?

- Press the NEXT/YES button to enable.
- Press the PRIOR/NO button to continue.

The SIA CP-01 Features are designed to reduce the incidence of false alarms. **NOTE:** Do not enable unless reporting, otherwise system trouble *Fail to Communicate* may occur.

```
# Area 1 Keypads
Enter # KPs   01
```

(Direct Entry)

Number of Keypads in Area 1

- Enter the total number of Keypads to be installed in Area 1.
- Valid entries are from 01 to 07. Directly enter the number of keypads, including leading zeros.

Press [ENTER] to save. Press the NEXT/YES button to proceed.

NOTE: Area 2-4 keypads must be assigned in Direct Address Programming. See Keypad Options.

```
Central Phone #
```

(Direct Entry)

Central Station Receiver 1 Telephone Number

- Enter telephone number of up to 16 digits.
- Press [1] through [9 P] for digits 1–9; [*] [0] for a zero and [0] for a blank (•).
- Press [*] [1] through [*] [5] for letters B–F, respectively.
- Pre-Dial Delay = "D" ([*] [4]); Dial-Tone Detection = "E" ([*] [5]).
- Press [ENTER] to save and press the NEXT/YES button to proceed.

NOTE: Central Station Receiver 2 and 3 Telephone Numbers must be entered in Direct Address Programming. See CS Receiver Options.

```
Central Station
Account # (____)
```

(Direct Entry)

Central Station Receiver 1 Account Number

- Enter an account number of up to four digits.
- Press [0] through [9 P] for digits 0–9, and [*] [0] for a blank (•).
- Press [ENTER] to save and press the NEXT/YES button to proceed.

NOTE: Central Station Receiver 2 and 3 Account Numbers must be entered in Direct Address Programming. See CS Reporting Options.

```
See WI for Info
Rcvr Format   (0)
```

(Direct Entry)

Central Station Receiver 1 Format

- From the table at the right enter the receiver format.
- Press [0] through [9 P], and [*] [0] for blank (•).
- Press [*] [1] through [*] [4] for letters B–E.
- Press [ENTER] to save; press the NEXT/YES button to proceed.

DATA ENTRY	CS RECEIVER 1 FORMAT
• (blank)	Ademco Slow, Silent Knight Slow
2	Radionics Fast
3	Silent Knight Fast
4	Radionics, DCI, Franklin Slow
5	Universal High Speed
B	SIA
C	Ademco Point ID
E	Pager

```
Enter user code->
U01 123    - 9-
```

User# User Code Area 1 Area 2

Enter User Codes *(Press [MENU] to set cursor.)*

For default program, enter up to 64 User Codes, with Area 1, 2, 3 & 4 Options.

- Press the ([MENU]) button once to set the cursor to the User Code.
- Press [0] through [9 P] to enter a code from 3 to 6 digits, leave blank (•) any trailing boxes.
- Press [MENU] to set the cursor to the Area 1 Options Level. Refer to the table below for available options. For Area 2 Options, press the [MENU] button once again. For Area 3 & 4 Options, press [MENU] a third and fourth time.
- If "Enable Global Ambush Code" (Address 1422) is enabled and "Global Ambush Code" (Address 2045) is **not** left blank (•), *do not* program the first two digits of ANY User Code the same as the "Global Ambush Code". See Address 2045 further in this manual for more information.
- Press [ENTER] to save. **Note:** Duplicate User Codes are not allowed; therefore a duplicate Code entered in the LCD Window will erase when [ENTER] is pressed. To proceed to the next User Code, press [MENU] to set the cursor to the User Number and change it using the number buttons. Press the NEXT/YES button to proceed.

USER OPTIONS				
USER CODE (UP TO 6 DIGITS)	AREA 1 OPTIONS	AREA 2 OPTIONS	AREA 3 OPTIONS	AREA 4 OPTIONS

USER AREA OPTIONS		
DATA ENTRIES		OPTION ENABLED
L	R	
blank(•)	blank(•)	Disabled
blank(•)	1	Arm/Disarm
blank(•)	2	Arm Only
blank(•)	3	Service
blank(•)	4	Access
blank(•)	5	Ambush
blank(•)	Add 8	* User Program
4	blank(•)	Bypass Enable

Example: Program a code of "2222" for user 02, with area 1 options of "Arm/Disarm" and "User Program". Enter "2222" for a user code, "• (blank) 9" for area 1 options and "• (blank) • (blank)" for area 2 options.

AREA OPTIONS	EXPLANATION
Disabled	User Code not active in this area.
Arm/Disarm	Allows User Code to arm/disarm this area.
Arm Only	Prevents User Code from disarming this area.
Service	A Service Code has restricted arm/disarm rights; if an area is armed with a Service Code, a "MONITOR ON" appears on the keypad and the area can be disarmed with any valid User Code, including a Service Code. If the area is armed with OTHER than a Service Code, it CANNOT be disarmed with a Service Code. This is typically used to allow tradesmen access to premises under control of the owner.
Ambush	There are two types of Ambush Codes: **(1)** A 2-digit code (prefix) that is entered immediately prior to (and as part of) the regular User Code and **(2)** A separate and unique User Code. Disarming with an Ambush Code will cause a silent report to be sent to a central station. Thus, should a user be forced to disarm, he can silently signal an emergency while appearing to be merely disarming the system.
Access	This is normally used to activate a door strike while an area is disarmed. Also program "Access Control on PGM2. Output" (Address 0719) and "PGM2 Output Access Control Timeout" (Address 0711).
* User Program	User Program Option is enabled. To enable User Program Option for any user, add 8 to the data entry for Area Option (see example). Then, User Programming can be performed at any Keypad by a user code with user program enabled.
Bypass Enable	Security Bypass--Bypass is enabled only with a security code.

Related User Options: "Enable Global Ambush Code" (Address 1422) and "Global Ambush Code" (Address 2045).

CHANGING OR CANCELING A CODE: To change any code, merely program over the existing code as described above and press ENTER to save. Similarly, to cancel a code, blank out each number of the code and press ENTER to save.

```
ZN#    XMIT#+CS P
Zn01-  000000:0-0
```

Zone # Mapped to | Xmitter ID | Check Sum | Point #

RF Transmitter Points *(Press* [MENU] *to set cursor.)*

For each transmitter enter: *(For wireless systems only. Also see Quick Method, which follows)*

- The **zone number** (01–64) to which the transmitter will be mapped.
- The **6-digit RF ID #** and **1-digit checksum number** printed on the transmitter and box,
- The **point number** (1–2); *enter "9" for unsupervised* (all points).
- Press [ENTER] to save and NEXT/YES button to proceed when all transmitters have been entered.

NOTE: When programming the ID Code number, "0" through "9" = [0] through [9 P] ; A = [✳] [0] ; B = [✳] [1] ;
C = [✳] [2] ; D = [✳] [3] ; E = [✳] [4] and "F" = [✳] [5].

```
ZN#    XMIT#+CS P
Zn01-  000000:0-0
```

```
ZN#    XMIT#+CS P
ZN01-  ENROLL:A--
```

Quick "Enroll" Method: If a receiver is already installed in the panel, transmitter wireless points can be programmed automatically ("enrolled") using the following procedure. **NOTE:** The transmitter point will be enrolled only if the signal strength is 3 or greater.

1. Enter the zone number to which the transmitter point will be mapped.
2. Press [BYPASS] to enter the Enroll Mode. The red and green LEDs on the keypad will flash and the window will display as shown at left.
3. Open the loop of the point that is to be programmed (GEM-TRANS2 only).
4. Install the transmitter battery. The keypad will beep to indicate that the point has been successfully enrolled. Multi-point transmitters can be mapped to successive zones simultaneously.

Example. A 2-point transmitter has the RF ID number 287613:1. Map point 1 to Zone 6 and point 2 to Zone 9.

1. Enter the Enroll mode as described above.
2. Enter Zone "06".
3. Open point-1 loop.
4. Install the battery. The keypad will beep once to indicate that one point has been programmed. (Transmitter 287613:1, point 1 will be mapped to Zone 6).
5. Enter Zone "09".
6. Close point-1 loop and open point-2 loop.
7. Remove the transmitter battery, then re-install it. The keypad will beep once to indicate that one point has been programmed. (Transmitter 287613:1, point 2 is mapped to Zone 9).

KEY FOB ZONE ASSIGNMENT: Key fobs can also be assigned to zones to allow multiple wireless panic buttons on one alarm system, each reporting to a central station, a pager or having a description on the keypad that describes the person holding the key fob, the location where the person holding the key fob is stationed, or the special purpose of the key fob button being depressed. *See the next page on Key Fob Transmitters as Zone Input Devices .*

```
KF  A  XMIT#+CS  OP
01-0   000000:0  00
```

KF # | Area | Xmitter ID | Check Sum | Aux 1&2

Key Fob Transmitters as Arm/Disarm & Control Devices *(Press* [MENU] *to set cursor).*

Key fobs can be programmed as "Arm/Disarm" devices using their On/Off buttons (refer to WI752). For each Key Fob Transmitter, enter:

- The **Key Fob Transmitter number** (01–8).
- The **area number** to which transmitter is assigned (0 to disable keyfob, 1 through 4).
- The **6-digit RF ID #** and **1-digit checksum number** printed on the transmitter and box,
- The **Aux 1 Option** (see key fob aux 1 & aux 2 options).
- The **Aux 2 Option** (see key fob aux 1 & aux 2 options).
- Press [ENTER] to save and NEXT/YES button to proceed when all key fobs have been entered.

NOTE: When programming the ID Code number, "0" through "9" = [0] through [9 P] ; A = [✳] [0] ; B = [✳]

Key Fob Transmitters as Zone Input Devices

(Refer to display above: press the AWAY button to go backwards).

Each of the 4 key fob buttons can be assigned to a zone. For example, On button = point 1; Off button = point 2; A1 = point 3; A2 = point 4. Up to 64 key fobs (using 1 button) or 32 key fobs (using 2 buttons) or 16 key fobs (using all 4 buttons) or any combination up to a maximum of 64 controlled zones can be assigned, providing multiple wireless panic buttons on a system, each reporting to a Central Station or a pager and/or annunciating on a keypad the key fob zone number with a description. *To assign a key fob to a zone:* program the key fob as you would a transmitter, entering the key fob's ID code, check sum and point number at the appropriate zone. The "Quick Method" is not allowed. The zone may be hardwired to an electrical sensor as well as assigned to a key fob (either one will activate the zone alarm output). **NOTE:** If assigning a key fob to a zone, the "ON/OFF" buttons on the key fob will no longer arm/disarm the system. The key fob is converted to a "panic only" device.

DATA ENTRY	AUX 1/AUX 2 OPTIONS
0	None
1	Relay Group 1 Toggle
2	Relay Group 2 Toggle
9	Keypad Panic
A	Keypad Aux.
B	Instant
C	PGM2 Ouput Toggle
D	Access on PGM2 Output
E	Arm STAY
F	Interior Button

```
01-
```

(Direct Entry)

Enter Zone Descriptions

- For each zone, enter a description of up to two lines. Press [ENTER] to save each description.
- See page 41 for instructions for entering characters and numbers for the zone descriptions.
- To proceed to the next description, place the cursor under the Zone Number (e.g. "1") and press the number that corresponds to the zone. Program new description as above. Zone Descriptions can be entered through the keypad or by using the Napco Quickloader Software. See *Easy Menu Programming Worksheet* for available zone description characters.

```
Enter Date
     (  /  /  )
```

(Direct Entry)

Enter Date *(Press [MENU] to set cursor).*

- Enter the current date in the format MM/DD/YY. (MM = month, DD = day and YY = year.
- Press [ENTER] to save. Press the NEXT/YES button to proceed.

```
Enter Time
     (  :   )
```

(Direct Entry)

Enter Time *(Press [MENU] to set cursor.)*

- Enter the current time in format HH:MMA/P, where HH=hours (01–12); MM=minutes (00–59).
- Select AM or PM by pressing any number button.
- Press [ENTER] to save. Press the NEXT/YES button to proceed.

```
Dealer Code
   456789
```

Dealer Code

- Directly enter the Dealer Code (default = 456789), using [0] through [9 P] buttons.
- Press [ENTER] to save. Re-enter the Dealer Code to verify the previous code. Press [ENTER] to save.
- Press the NEXT/YES button to proceed.

```
DEALER CODE
   RE-ENTER
```

EXIT DEALER PROGRAM MODE: This completes the custom default program. Press [RESET] to enter the Direct Address Program Mode for further programming or press [RESET] once again to end all programming and resume normal keypad operation.

CLEAR PROGRAM: Should it be necessary to create a new custom default program, (a) from the Dealer Program Mode, press [RESET] to enter the Address Program Mode; (b) access Location 2285 (Clear Program) or 2286 (Cold Start); (c) press [ENTER] and then (d) press [RESET] to exit the Dealer Program Mode. A "SYSTEM TROUBLE/E09-00 SERVICE" will occur. Press [RESET] to silence the keypad.

```
2285 XX          H
```

Clear Dealer Program (Erases Dealer Program)

Use this feature to erase the Panel Program, while maintaining Scheduled Data and Zone Descriptions. Access address 2285 and press [ENTER]. Data entry is not allowed. **NOTE:** Enter Easy Menu Driven Program Mode to reprogram system.

```
2286 XX          H
```

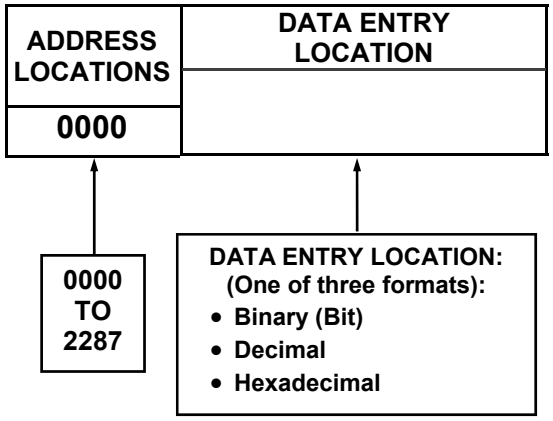
Cold Start (Erases Entire Program)

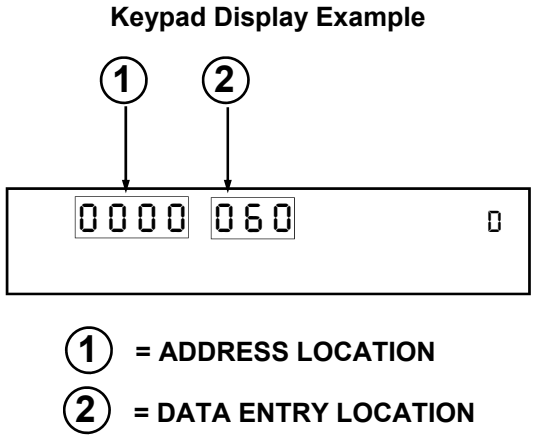
This erases all programmed data (Dealer Program, Zone Description Data and Schedules). Access address 2286 and press [ENTER]. Data entry is not allowed. **NOTE:** Some features

DIRECT ADDRESS PROGRAM MODE

DIRECT ADDRESS OVERVIEW

Direct Address Programming allows you to go directly to the address locations (up to 2287) and change the data entries manually in order to customize your control panel options. Whereas the Easy Menu Program Mode guides you through limited selections to get you started, **Direct Address Program Mode** allows you to change all options directly. It consists of up to 2287 address locations each with data entry locations as shown in the following diagram (below left). The data entry location accepts data in one of three formats: Binary, Decimal and Hexadecimal (explained below in "**Address Mode Displays**"). The following diagram (below right) illustrates a *Decimal* format data entry location using a keypad.





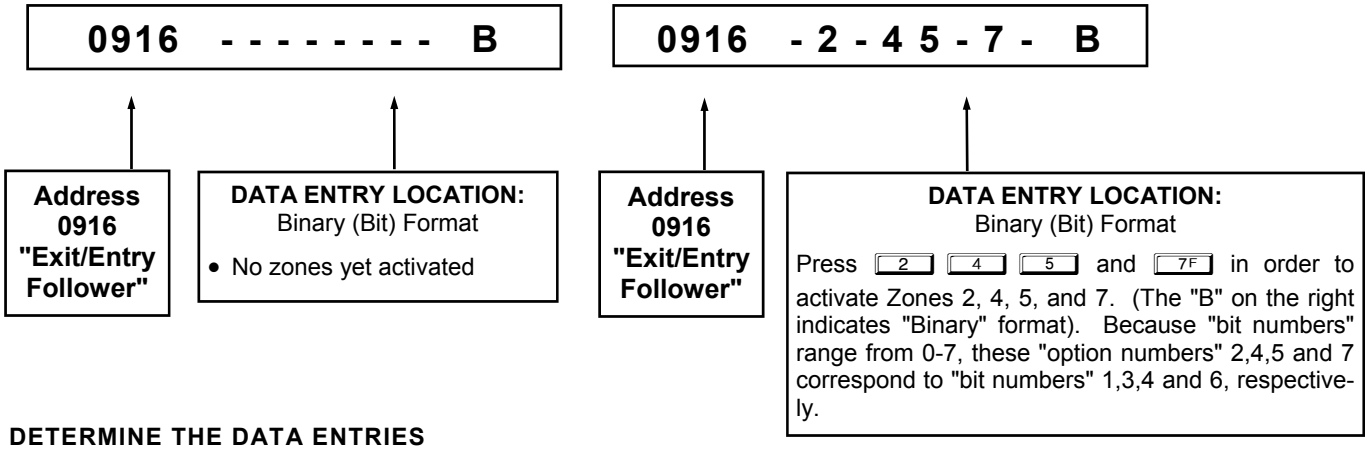
ADDRESS MODE DISPLAYS

There are three types of address displays when programming in Direct Entry Program Mode, as follows:

A) Binary (Bit) Format Example

Settings (such as Zone Features) display and accept data in "number" format. For example, Zone Features are turned on by the pressing of keypad buttons 1 through 8, with the activated Zone(s) displaying the corresponding decimal digit (replacing deactivated zones which are signified by dashes).

EXAMPLE: BIT Format with the keypad: Program Zones 2, 4, 5 and 7 as *Exit/Entry Follower Zones*.



DETERMINE THE DATA ENTRIES

1. Referring to ZONE FEATURES in the Programming Worksheets that follow, the Exit/Entry Follower for Zones 1 through 8 are located at address 0916.

ZONE FEATURES	ADDR	ZONES 1 → 8								ADDR	ZONES 9 → 16							
		Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8		Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
Exit/Entry Follower	0916						6	7	8	0911								

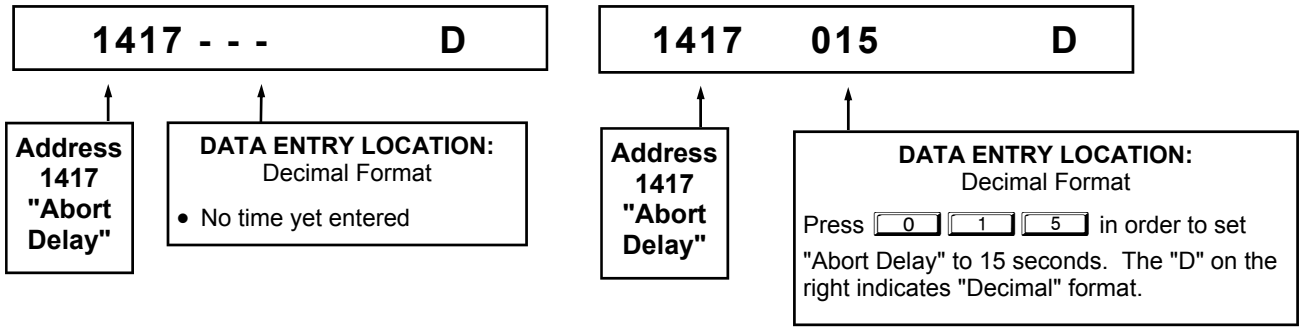
PROGRAM THE DATA ENTRIES

1. Enter the panel's Dealer Security Code, then press [MENU].
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES. **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using [BYPASS].
3. Press [RESET] to enter the Address Program Mode. Address "0000" will display.
4. Press [0] [9 P] [1] [6] to access Address 0916. *The existing data will display and the cursor will advance to the data field.*
5. Press [6] [7 F] [8 A]. The numbers 6,7 and 8 will appear on the keypad display indicating the zones activated.
6. Press [ENTER] to save. Address 0916 is now programmed with "6,7,8".
7. Press [MENU] and enter another 4-digit address to continue programming --or-- press [RESET] to exit and resume normal keypad operation.

B) Decimal Format Example

Settings (such as Entry and Exit Delay) display and accept data in decimal format, as a 3 digit number. Data is entered directly, by pressing keys 0 – 9, with the cursor automatically moving to the right upon each key press.

EXAMPLE: DECIMAL Format with the keypad: Program *Abort Delay* to be 15 seconds.



DETERMINE THE DATA ENTRIES

1. Referring to SYSTEM DELAYS & TIMEOUTS in the Programming Worksheets that follow, the Abort Delay is located at address 1417:

ABORT DELAY (sec.)	ADDRESS 1417		

[Default = 0 sec. = blank (•)]

PROGRAM THE DATA ENTRIES

1. Enter the panel's Dealer Security Code, then press [MENU].
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES. **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using [BYPASS].
3. Press [RESET] to enter the Address Program Mode. Address "0000" will display.
4. Press [1] [4] [1] [7 F] to access Address 1417. *The existing data will display and the cursor will ad-*

vance to the data field.

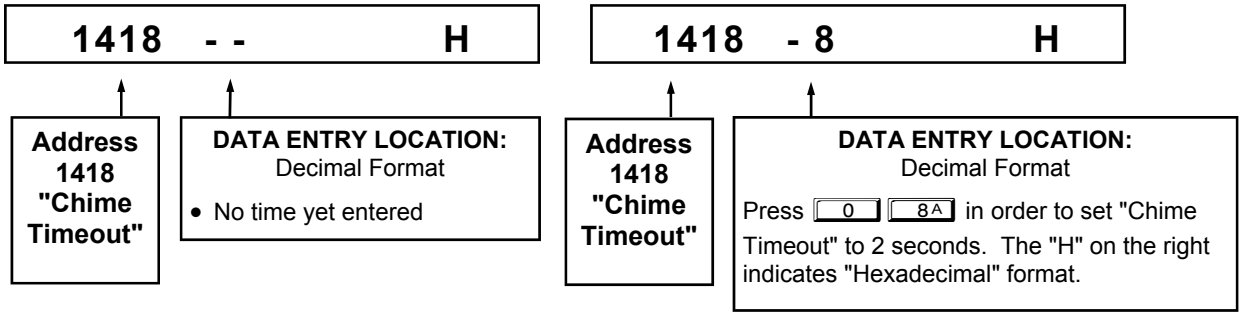
5. Press [0] [1] [5]. The numbers 015 will appear on the keypad display indicating the number of seconds entered.
6. Press [ENTER] to save. Address 1417 is now programmed with a 15-second Abort Delay.
7. Press [MENU] and enter another 4-digit address to continue programming--or--press [RESET] to exit and resume normal keypad operation.

C) Hexadecimal Format Example

Data such as Report Codes displays and accepts data by means of a Hexadecimal display. Data is entered directly, by pressing keys 1 – 9, [*] [0] for zero, and [*] [1] through [*] [5] for hex B through F (11-15), with the cursor automatically moving to the right upon key press. See table below.

HEXADECIMAL ENTRIES					
ENTRY TOTAL	PRESS	KEYPAD DISPLAYS	ENTRY TOTAL	PRESS	KEYPAD DISPLAYS
blank	[0]	•	8	[8 A]	8
1	[1]	1	9	[9 P]	9
2	[2]	2	10	[*] [0]	0
3	[3]	3	11	[*] [1]	B
4	[4]	4	12	[*] [2]	C
5	[5]	5	13	[*] [3]	D
6	[6]	6	14	[*] [4]	E
7	[7 F]	7	15	[*] [5]	F

EXAMPLE: HEXADECIMAL Format with the keypad: Program *Chime Timeout* to be 2 seconds.



DETERMINE THE DATA ENTRIES

1. Referring to SYSTEM DELAYS & TIMEOUTS in the Programming Worksheets that follow, the Chime Timeout is located at address 1418. In the "**Chime Timeout Options**" table, the data entries needed to assign a timeout of 2 seconds are "blank" and "8".

CHIME TIMEOUT (¼sec.)	ADDRESS 1418	

[Default = 2 ¼sec. = ½ sec.]

CHIME TIMEOUT OPTIONS		
DATA ENTRIES		TIMEOUT
LEFT	RIGHT	
blank (•)	blank (•)	0 x ¼sec. = 0 sec.
blank (•)	2	2 x ¼sec. = ½ sec.
blank (•)	3	3 x ¼sec. = ¾ sec.
blank (•)	4	4 x ¼sec. = 1 sec.
blank (•)	5	5 x ¼sec. = 1.25 sec.
blank (•)	6	6 x ¼sec. = 1.5 sec.
blank (•)	7	7 x ¼sec. = 1.75 sec.
blank (•)	8	8 x ¼sec. = 2 sec. ← 2 seconds
↓	↓	↓
F	F	255 x ¼sec. = 63.25

PROGRAM THE DATA ENTRIES

1. Enter the panel's Dealer Security Code, then press [MENU].
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES. **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using [BYPASS].
3. Press [RESET] to enter the Address Program Mode. Address "0000" will display.
4. Press [1] [4] [1] [8 A] to access Address 1418. *The existing data will display and the cursor will advance to the data field.*
5. Since you wish the timeout to be for 2 seconds (and 8 multiplied by ¼ second equals 2 seconds), press [0] [8 A]. The numbers 08 will appear on the keypad display indicating the number of seconds entered.
6. Press [ENTER] to save. Address 1418 is now programmed with a 2-second chime.
7. Press [MENU] and enter another 4-digit address to continue programming --or-- press [RESET] to exit and resume normal keypad operation.

PROGRAMMING CONVENTIONS USED IN THIS MANUAL

The Keypad Programming Worksheets in the back are provided as an address-programming reference to help the installer modify his custom default program or to make minor field alterations to an existing panel program. It is recommended that the panel be uploaded to NAPCO's PCD-Windows software following any keypad programming and that the PCD-Windows's error-check feature be utilized to reduce the possibility of programming omissions or conflicts.

Keep the Keypad Programming Worksheets on file for future reference.

General Programming Steps

☞ 1. Contact the central station to ascertain receiver format, data format, event codes, subscriber numbers and telephone number(s).

☞ 2. Select the desired features by circling ✎ the respective "address" boxes. Refer to the Programming Options and Worksheets for guidance in selecting the "data" to be entered into those boxes.

☞ 3. Program the data entered in the boxes on the worksheets into the respective addresses. The display will show the entry numerically, but if hexadecimal format will display "0" for the number 10, and letters "B", "C", "D", "E", and "F" for the numbers 11 through 15, respectively. To program a 10, press [*] [0]. To program 11 through 15, press [*] [1] through [*] [5], respectively.

The displays will appear after a brief delay.

☞ Use [MENU] to toggle the cursor between the 4-digit address field and the data entry locations.

☞ Enter the address directly using the number buttons.

☞ The contents of the address will be read automatically. The cursor will advance to the data field. Enter the required data directly using the number buttons.

☞ **IMPORTANT:** Press [ENTER] to save the contents of each address.

EXIT DIRECT ADDRESS PROGRAM MODE: When done, press [RESET] to exit and resume normal keypad operation.

SYSTEM DELAYS & TIMEOUTS (ADDRESS 0000-0002, 1413, 1417, 2050 & 2055)

EXIT DELAY (sec.)	ADDRESS 0000		

[Default = 060]

ENTRY DELAY 1 (sec.)	ADDRESS 0001		

[Default = 030]

ENTRY DELAY 2 (sec.)	ADDRESS 0002		

[Default = 030]

PGM2 Output Access Cntrl Timeout (sec.)	ADDRESS 1413		

[Default = 0 sec. = blank (•)]

ABORT DELAY (sec.)	ADDRESS 1417		

[Default = 030]

☞ Select delay/timeout (0-255 sec.).

EXIT/ENTRY DELAYS: Apply only to zones programmed with the following options "Exit/Entry 1, Exit/Entry 2, Exit/Entry Follower". For UL Installations, the maximum exit delay is 60 seconds and the maximum entry delay is 45 seconds. **NOTE:** Sensor Watch Time Options are similar to above, except in hours.

☞ Press ENTER to save.

Sensor Watch Time (Hrs.)	ADDRESS 2050		

[Default = 024]

Report Cancel Window (min.)	ADDRESS 2055		

[Default = 0 min. = blank (•)]

WARNING: Timers have uncertainty of +/-1 sec, so a "time" of 1 second may actually timeout IMMEDIATELY.

SYSTEM DELAYS & TIMEOUTS (ADDRESS 1418-1419)

CHIME TIME (¼sec.)	ADDRESS 1418		

[Default = 008 x ¼ sec. = 2 sec.]

AC Fail Report Delay (min.)	ADDRESS 1419		

[Default = 060]

DEFAULTS: The defaults shown on this page and on the following pages are automatically set after exiting the Easy Menu Driven Mode.

☞ 1. Enter delay/timeout in corresponding address locations above.
Note: All entries for address 1418 are in quarter seconds (.25 seconds). Therefore, the default of 008 results in a 2 second timeout.

☞ 2. Press ENTER to save.

SYSTEM OUTPUT TIMEOUTS (ADDRESS 1412 & 1414-1416)

PGM2 Output Timeout (min.)	ADDRESS 1412		

[Default = 0 min. = blank (•)]

Alarm Output Timeout (min.)	ADDRESS 1414		

[Default = 015]

Pulse Alarm Output Timeout (min.)	ADDRESS 1415		

[Default = 015]

PGM1 Output Timeout (min.)	ADDRESS 1416		

[Default = 0 min. = blank (•)]

DATA ENTRIES	DELAY/ TIMEOUT
blank (•)	0 min.
001	1 min.
002	2 min.
003	3 min.
004	4 min.
005	5 min.
006	6 min.
016	16 min.
↓	↓
↓	↓
255	255 min.

☞ 1. Select delay/timeout (0-255 min.) from the table shown.

☞ 2. Enter in corresponding address locations above.

☞ 3. Press [ENTER] to save.

OUTPUT TIMEOUTS: If a timeout of "0 min." is selected, then the output will remain active (ON) until the system is reset or disarmed. For UL Residential Installations, the minimum timeout is 4 minutes. Not UL listed for Commercial Installations.

DOWNLOAD/CALLBACK OPTIONS (ADDRESS 2059 & 0526-0545)

No. Rings Before Pickup	ADDRESS 2059		

[Default = 015]

NUMBER OF RINGS BEFORE PICKUP: Enter the number of rings before automatic pickup by the control panel when downloading from a computer (see Glossary at the back for more information).

☞ 1. Enter digit only.

☞ 2. Valid entries are: 003-015. **NOTE:** Default is 15 Rings.

☞ 3. Press [ENTER] to save.

Callback Telephone Number (Digits 1-20)	ADDRESS 0526-0545 (RIGHT DIGITS 1-20)																			
	0526	0527	0528	0529	0530	0531	0532	0533	0534	0535	0536	0537	0538	0539	0540	0541	0542	0543	0544	0545

[Default = blank (•) for all digits 1-20]

CALLBACK TELEPHONE NUMBER: Enter telephone number to be used when downloading from a computer (see Glossary at the back for more information).

☞ 1. Enter digit only (right nibble).

☞ 2. Enter up to 20 digits from left to right. **NOTE:** Leave trailing boxes blank (•).

☞ 3. Valid entries are: 1-9, B = [*] button, C = [#] button, D = 3 sec. pause, E = Wait for dial tone, F = ignore location.

☞ 4. Press [ENTER] to save.

PAGER FORMAT OPTIONS (ADDRESS 0546 & 0547)

Leading Digits for Pager Format (1st Digit)	ADDRESS 0546

Leading Digits for Pager Format (2nd Digit)	ADDRESS 0547

[Default = blank (•) blank (•)]

LEADING DIGITS FOR PAGER FORMAT: In Pager Format reporting, the message typically begins with "00". However, for some pager services, this will cause the Pager's Voice Mail feature to activate. This option allows you to program these digits to any number desired. A typical Pager report is "003 22 1234", where 3 is the Event, 22 is the zone, and 1234 is the Subscriber ID number. For example, if the Leading Digits are programmed as "98", the Pager report will now appear as "983 22 1234". **NOTE:** See CS Receiver Options to select Pager Format.

☞1. Enter in 1st and 2nd Leading Digits as shown (right nibble).

☞2. Valid entries are: 0-9. Press [ENTER] to save.

SYSTEM OPTIONS (ADDRESS 0836-0871 & 2045)

SYSTEM RESPONSE ACTIVATED BY GLOBAL EVENT/TROUBLE	ADDR	GLOBAL SYSTEM EVENT/TROUBLE							
		TEST TIMER	TELCO FAILURE	RF RCVR. TROUBLE	MEMORY FAILURE	LOW BATTERY	AC FAIL	EZM TAMPER	Bell Superv
		1	2	3	4	5	6	7	8
Alarm Output	0836	■							■
Pulsed Alarm Output	0837	■							■
PGM1 Output	0838	■							
PGM2 Output	0839	■							
Report Event Telco 1	0840		■						
Report Restore Telco 1	0841	■		■	■			■	
Report Event Telco 3	0842		■						
Report Restore Telco 3	0843	■		■	■			■	

[Default = blank (•) from address 0836-0843]. **Note:** If *Test Timer* is enabled (above), *Digital Dialer Test* is also enabled.

SYSTEM RESPONSE ACTIVATED BY AREA 1 EVENT/TROUBLE	ADDR	AREA 1 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.‡	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	Keyfob Low Batt
		1	2	3	4	5	6	7	8
Pulsed Alarm Output	0856								
Alarm Output	0857								
PGM1 Output	0858								
PGM2 Output	0860								
Report Event Telco 1	0861								
Report Event Telco 3	0863								

[Default = blank (•) from address 0856-0863] ‡ **NOTE:** Keypad Aux. is not to be selected for UL Installations.

SYSTEM RESPONSE ACTIVATED BY AREA 2 EVENT/TROUBLE	ADDR	AREA 2 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.‡	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	Keyfob Low Batt
		1	2	3	4	5	6	7	8
Pulsed Alarm Output	0864								
Alarm Output	0865								
PGM1 Output	0866								
PGM2 Output	0868								
Report Event Telco 1	0869								
Report Event Telco 3	0871								

[Default = blank (•) blank (•) from address 0864-0871] ‡ **NOTE:** Keypad Aux. is not to be selected for UL Installations.

☞ 1. Select the desired option entering the option number (1-8) for each digit.

☞ 2. Enter corresponding option number in address location.

☞**NOTE:** Dark shaded data value box shows option not available. Press [ENTER] to save.

	ADDRESS 2045	
	1st digit	2nd digit
Global Ambush Code		

[Default = blank (•) blank (•)]

GLOBAL AMBUSH CODE: It is the 2-digits entered immediately prior to the regular disarm code. If "Enable Global Ambush Code" (Address 1422) is selected and Address 2045 is left blank (•), then the 2-digit Global Ambush Code is "99". If "Enable Global Ambush Code" is selected and Address 2045 is **not** left blank (•), then the 2-digit Global Ambush Code is the two digits entered in address 2045.

☞Enter in address location (both 1st and 2nd digits); valid entries are 1-9.

☞Press [ENTER] to save.

SYSTEM OPTIONS (ADDRESS 0872-0887)

SYSTEM RESPONSE ACTIVATED BY AREA 3 EVENT/TROUBLE	ADDR	AREA 3 SYSTEM EVENT/TROUBLE							
		AMBUSH	**KEYPAD PANIC**	**KEYPAD FIRE**	**KEYPAD AUX. ‡**	**KEYPAD TAMPER**	**FAIL TO OPEN**	**FAIL TO CLOSE**	**Keyfob Low Batt**
		1	2	3	4	5	6	7	8
Pulsed Alarm Output	0872								
Alarm Output	0873								
PGM1 Output	0874								
PGM2 Output	0876								
Report Event Telco 1	0877								
Report Event Telco 3	0879								

[Default = blank (•) from address 0872-0879] ‡ **NOTE:** Keypad Aux. is not to be selected for UL Installations.

SYSTEM RESPONSE ACTIVATED BY AREA 4 EVENT/TROUBLE	ADDR	AREA 4 SYSTEM EVENT/TROUBLE							
		AMBUSH	**KEYPAD PANIC**	**KEYPAD FIRE**	**KEYPAD AUX. ‡**	**KEYPAD TAMPER**	**FAIL TO OPEN**	**FAIL TO CLOSE**	**Keyfob Low Batt**
		1	2	3	4	5	6	7	8
Pulsed Alarm Output	0880								
Alarm Output	0881								
PGM1 Output	0882								
PGM2 Output	0884								
Report Event Telco 1	0885								
Report Event Telco 3	0887								

[Default = blank (•) blank (•) from address 0880-0887] ‡ **NOTE:** Keypad Aux. is not to be selected for UL Installations.

☞ 1. Select the desired option entering the option number (1-8) for each digit.

☞ 2. Enter corresponding option number in address location.

☞**NOTE:** Dark shaded data value box shows option not available. Press ENTER to save.

SYSTEM OPTIONS (ADDRESS 1420-1424, 2051-2054)

1420	System Options		
Default			**Option**
OFF		**1**	Opening Report Only after Alarm Report
OFF		**2**	Closing Report Only on Conditional Close
OFF		**3**	Incl. Sel./Grp. Bypass in Cond. Close /Status
OFF		**4**	Status Report
OFF		**5**	RESERVED
OFF		**6**	Enable AutoArm if not closed at end of Window
OFF		**7**	Enable Keypad Time/Date Display
OFF		**8**	Disable Zone Fault Scrolling

1421	System Options		
Default			**Option**
OFF		**1**	Auto Bell Test on Arming
OFF		**2**	Auto Reset after Burglary Output Timeout
OFF		**3**	Suppress Bypass Reminder when Armed
OFF		**4**	Enable Local Alarm on First Zone AND Trip
OFF		**5**	Access Control on PGM2 Output
OFF		**6**	Maintained Keyswitch Arming
OFF		**7**	RESERVED
OFF		**8**	Disable Keypad Instant Mode

1422	System Options		
Default			Option
OFF		**1**	Interior Normally Bypassed
OFF		**2**	Enable Global Ambush Code ***
OFF		**3**	Reset Day Zone with Arm/Disarm Only
OFF		**4**	Enable Residential Fire
OFF		**5**	Disable Keypad Function Mode Download
OFF		**6**	Disable Callback Download
OFF		**7**	Chirp Output on Keyfob Arm/Disarm
OFF		**8**	Change Pulse Output to Temporal Output§

1423	System Options		
Default*			Option
OFF*		**1**	Enable Zone Doubling (Zones 9-16)
OFF*		**2**	Wireless Trouble Activates Telco 1
OFF*		**3**	Wireless Trouble Activates Telco 3
OFF*		**4**	Enable Alarm Output on Telco Fail only when Armed
OFF*		**5**	Line-Fault Test only when Armed**
OFF*		**6**	Enable Line-Fault Test**
OFF*		**7**	Inhibit System Trouble Audible at Keypad‡
OFF*		**8**	Select Alarm Output for Keyfob Chirp

1424	System Options		
Default			Option
OFF		**1**	Automatic Interior Bypass/Easy Exit
OFF		**2**	Veri-phone Zones Trip PGM2 Output
OFF		**3**	Veri-phone Audio Priority Over Alarms
OFF		**4**	Resound on Wireless Smoke Low Battery
OFF		**5**	Don't Clear PGM2 Output with Disarm
OFF		**6**	Disable 2nd Call Ans. Machine Override
OFF		**7**	RESERVED
ON		**8**	Disable Code Required for EZ Bypass

2051	System Options		
Default			Option
OFF		**1**	Enable Keypad Set Time/Date Message
OFF		**2**	Enable Cancel Report to Telco 3
OFF		**3**	Disable [ON/OFF] as Easy Exit
OFF		**4**	Enable GEM-PRINT Module
OFF		**5**	RESERVED
OFF		**6**	RESERVED
OFF		**7**	Disable System Trouble Audible Timeout
OFF		**8**	Enable "K Series" Style Keypads ††

2052	E15 Lug / System Options		
Default			Option
OFF		**1**	RESERVED
OFF		**2**	RESERVED
OFF		**3**	Lug E15 Area 1 Armed Away Only****‡
OFF		**4**	PGM on RF Transmitter Tamper‡
OFF		**5**	RESERVED
OFF		**6**	RESERVED
OFF		**7**	RESERVED
OFF		**8**	RESERVED

2053	System Options		
Default			Option
OFF		**1**	Exit Time Restart
OFF		**2**	Sound Alarm On Exit Error
OFF		**3**	Rpt Exit Err/Recent Close
OFF		**4**	Enable CP-01 Limits
OFF		**5**	Digital Dialer Rpt Enter /Exit Test Mode
OFF		**6**	Disable Call Waiting on 1st Attempt
OFF		**7**	Enable Keypad 1 Only Programming
OFF		**8**	Enable CP-01 Egress Tones Only

2054	System Options		
Default			Option
OFF		**1**	Enable TCP/IP Communications‡
OFF		**2**	RESERVED
OFF		**3**	TCP/IP Panel/Site Initiated Functions
OFF		**4**	RESERVED
OFF		**5**	RESERVED
OFF		**6**	RESERVED
OFF		**7**	RESERVED
OFF		**8**	RESERVED

*Address 1423: Default depends on Easy Menu Question :"EZ ZONE DOUBLING? Y/N". If yes, then [Default = 1]. If no, then [Default = blank (•)].
**To select "Line-Fault Test only when Armed", you must also select "Enable Line-Fault Test" at address 1423.
***If "Enable Global Ambush Code" in Address 1422 is selected, then program the 2-digit "Global Ambush Code" in Address 2045. If Address 2045 is left blank (•), then, the 2-digit "Global Ambush Code" will be "99".
****If this feature is not selected, the E15 Lug will, by default, activate when the system is armed (all areas).
‡Not for UL Installations
§This feature must be programmed in Fire Alarm applications.
††For reference only and cannot be changed.

CS RECEIVER OPTIONS (ADDRESS 0460-0525)

CS Receiver 1 Format	ADDRESS 0460

CS Receiver 2 Format	ADDRESS 0482

CS Receiver 3 Format	ADDRESS 0504

Default for CS Receiver 1 Format depends on Easy Menu Question "RCVR FORMAT". [Default = •(blank) • (blank)] for CS Receivers 2 and 3 Formats.

DATA ENTRY	CS RECEIVER 1 FORMAT
blank (•)	Ademco Slow, Silent Knight Slow
2	Radionics Fast
3	Silent Knight Fast
4	Radionics, DCI, Franklin Slow
5	Universal High Speed
B	SIA
C	Ademco Point ID
E	Pager *

NOTE: * See Pager Format Options to program Leading Digits for Pager Format.

CS RECEIVER FORMATS: Up to 3 CS Formats may be programmed.

☞ 1. Select the desired CS Receiver Format from the table shown.

☞ 2. Enter the corresponding digit in the address location for each CS Receiver. **NOTE:** Dark shaded data value box shows option not available. Press [Enter] to save.

0461	CS Receiver Options - Telco 1		
Default			Option
OFF		1	1400Hz Handshake/Kissoff *
OFF		2	2300Hz Handshake/Kissoff *
OFF		3	Enable Zone Number on Pulse Alarm
OFF		4	Single Digit Only
OFF		5	Sum Check
OFF		6	3/1 with Extended Restores
OFF		7	Enable TCP/IP AES RPT
OFF		8	RESERVED

0483	CS Receiver Options - Telco 2		
Default			Option
OFF		1	1400Hz Handshake/Kissoff *
OFF		2	2300Hz Handshake/Kissoff *
OFF		3	Enable Zone Number on Pulse Alarm
OFF		4	Single Digit Only
OFF		5	Sum Check
OFF		6	3/1 with Extended Restores
OFF		7	Enable TCP/IP AES RPT
OFF		8	RESERVED

0505	CS Receiver Options - Telco 3		
Default			Option
OFF		1	1400Hz Handshake/Kissoff *
OFF		2	2300Hz Handshake/Kissoff *
OFF		3	Enable Zone Number on Pulse Alarm
OFF		4	Single Digit Only
OFF		5	Sum Check
OFF		6	3/1 with Extended Restores
OFF		7	Enable TCP/IP AES RPT
OFF		8	RESERVED

CS RECEIVER OPTIONS:
Select options for any of the three CS Receivers.

☞ 1. Select the desired option entering the option number (1-8) for each digit.

☞ 2. Enter corresponding option number in address location (right nibble).

NOTE: Dark shaded data value box shows option not available. Press [Enter] to save.

***NOTE:** If both are selected, 1400Hz has priority over 2300Hz.

CS Receiver 1 Telephone Number	ADDRESS 0462-0481 (RIGHT DIGITS 1-20)																			
	0462	0463	0464	0465	0466	0467	0468	0469	0470	0471	0472	0473	0474	0475	0476	0477	0478	0479	0480	0481
(Digits 1-20)																				

CS Receiver 2 Telephone Number	ADDRESS 0484-0503 (RIGHT DIGITS 1-20)																			
	0484	0485	0486	0487	0488	0489	0490	0491	0492	0493	0494	0495	0496	0497	0498	0499	0500	0501	0502	0503
(Digits 1-20)																				

CS Receiver 3 Telephone Number	ADDRESS 0506-0525 (RIGHT DIGITS 1-20)																			
	0506	0507	0508	0509	0510	0511	0512	0513	0514	0515	0516	0517	0518	0519	0520	0521	0522	0523	0524	0525
(Digits 1-20)																				

Default for CS Receiver 1 Telephone Number depends on Easy Menu Question "CENTRAL PHONE #".

[Default = blank (•)] across digits 1-20 for CS Receiver Telephone Numbers 2 and 3.

CS RECEIVER TELEPHONE NUMBERS: Enter telephone numbers for any of the three CS Receivers (Telco 1, 2 & 3).

☞ 1. Enter digit only.

☞ 2. Enter up to 20 digits from left to right. **NOTE:** Leave trailing boxes blank (•). Press [Enter] to save.

☞ 3. Valid entries are: 1-9, B = [*] button, C = [#] button, D = 3 sec. pause, E = Wait for dial tone, F = Ignore location

CS SUBSCRIBER ID OPTIONS (ADDRESS 0560-0667)

CS Telco 1 Subscriber Opening/ Closing ID Number (Area 1)	ADDRESS 0560-0563 (RIGHT DIGITS 1-4)			
	0560	0561	0562	0563

CS Telco 1 Subscriber Opening/ Closing ID Number (Area 2)	ADDRESS 0564-0567 (RIGHT DIGITS 1-4)			
	0564	0565	0566	0567

CS Telco 1 Subscriber Opening/ Closing ID Number (Area 3)	ADDRESS 0568-0571 (RIGHT DIGITS 1-4)			
	0568	0569	0570	0571

CS Telco 1 Subscriber Opening/ Closing ID Number (Area 4)	ADDRESS 0572-0575 (RIGHT DIGITS 1-4)			
	0572	0573	0574	0575

CS Telco 1 Subscriber Event ID Number (Area 1)	ADDRESS 0576-0579 (RIGHT DIGITS 1-4)			
	0576	0577	0578	0579

CS Telco 1 Subscriber Event ID Number (Area 2)	ADDRESS 0580-0583 (RIGHT DIGITS 1-4)			
	0580	0581	0582	0583

CS Telco 1 Subscriber Event ID Number (Area 3)	ADDRESS 0584-0587 (RIGHT DIGITS 1-4)			
	0584	0585	0586	0587

CS Telco 1 Subscriber Event ID Number (Area 4)	ADDRESS 0588-0591 (RIGHT DIGITS 1-4)			
	0588	0589	0590	0591

CS Telco 1 Subscriber Event ID Number (System)	ADDRESS 0592-0595 (RIGHT DIGITS 1-4)			
	0592	0593	0594	0595

CS Telco 2 Subscriber Opening/ Closing ID Number (Area 1)	ADDRESS 0596-0599 (RIGHT DIGITS 1-4)			
	0596	0597	0598	0599

CS Telco 2 Subscriber Opening/ Closing ID Number (Area 2)	ADDRESS 0600-0603 (RIGHT DIGITS 1-4)			
	0600	0601	0602	0603

CS Telco 2 Subscriber Opening/ Closing ID Number (Area 3)	ADDRESS 0604-0607 (RIGHT DIGITS 1-4)			
	0604	0605	0606	0607

CS Telco 2 Subscriber Opening/ Closing ID Number (Area 4)	ADDRESS 0608-0611 (RIGHT DIGITS 1-4)			
	0608	0609	0610	0611

CS Telco 2 Subscriber Event ID Number (Area 1)	ADDRESS 0612-0615 (RIGHT DIGITS 1-4)			
	0612	0613	0614	0615

CS Telco 2 Subscriber Event ID Number (Area 2)	ADDRESS 0616-0619 (RIGHT DIGITS 1-4)			
	0616	0617	0618	0619

CS Telco 2 Subscriber Event ID Number (Area 3)	ADDRESS 0620-0623 (RIGHT DIGITS 1-4)			
	0620	0621	0622	0623

CS Telco 2 Subscriber Event ID Number (Area 4)	ADDRESS 0624-0627 (RIGHT DIGITS 1-4)			
	0624	0625	0626	0627

CS Telco 2 Subscriber Event ID Number (System)	ADDRESS 0628-0631 (RIGHT DIGITS 1-4)			
	0628	0629	0630	0631

CS Telco 3 Subscriber Opening/ Closing ID Number (Area 1)	ADDRESS 0632-0635 (RIGHT DIGITS 1-4)			
	0632	0633	0634	0635

CS Telco 3 Subscriber Opening/ Closing ID Number (Area 2)	ADDRESS 0636-0639 (RIGHT DIGITS 1-4)			
	0636	0637	0638	0639

CS Telco 3 Subscriber Opening/ Closing ID Number (Area 3)	ADDRESS 0640-0643 (RIGHT DIGITS 1-4)			
	0640	0641	0642	0643

CS Telco 3 Subscriber Opening/ Closing ID Number (Area 4)	ADDRESS 0644-0647 (RIGHT DIGITS 1-4)			
	0644	0645	0646	0647

CS Telco 3 Subscriber Event ID Number (Area 1)	ADDRESS 0648-0651 (RIGHT DIGITS 1-4)			
	0648	0649	0650	0651

CS Telco 3 Subscriber Event ID Number (Area 2)	ADDRESS 0652-0655 (RIGHT DIGITS 1-4)			
	0652	0653	0654	0655

CS Telco 3 Subscriber Event ID Number (Area 3)	ADDRESS 0656-0659 (RIGHT DIGITS 1-4)			
	0656	0657	0658	0659

CS Telco 3 Subscriber Event ID Number (Area 4)	ADDRESS 0660-0663 (RIGHT DIGITS 1-4)			
	0660	0661	0662	0663

CS Telco 3 Subscriber Event ID Number (System)	ADDRESS 0664-0667 (RIGHT DIGITS 1-4)			
	0664	0665	0666	0667

Default for CS Telco 1 Subscriber Event ID Number (Area 1) depends on Easy Menu Question "ACCOUNT #". [Default = blank (•) blank (•) blank (•) blank (•)] for all other ID Numbers.

CS TELCO SUBSCRIBER ID NUMBERS: Enter the Subscriber Opening/Closing and Event ID Numbers for any of the 3 CS Receivers.

☞ 1. Enter 3 or 4 digits (depending on the CS receiver format) for each subscriber number from left to right.
NOTE: Leave trailing boxes blank (•).

CS SYSTEM REPORTING OPTIONS (ADDRESS 0670-0705)

CS SYSTEM REPORTING CODES	ADDRESS 0670-0682		
		ADDR	
Alarm Restore	blank (•)	0670	
Trouble	blank (•)	0671	
Trouble Restore	blank (•)	0672	
Xmitter Low Battery	blank (•)	0673	
Xmitter Supervision	blank (•)	0674	
Xmitter Tamper	blank (•)	0675	
RESERVED	blank (•)	0676	blank (•)
Opening	blank (•)	0677	
Closing	blank (•)	0678	
Opening after Alarm	blank (•)	0679	
Conditional Close	blank (•)	0680	
Cancel	blank (•)	0681	
Test Timer		0682	

[Default = blank (•) blank (•) from address 0670-0682]
[Default = blank (•) blank (•) from address 0683-0705]

CS SYSTEM REPORTING CODES	ADDRESS 0683-0708		
		ADDR	
Telco Fail		0683	
RF Rec. Trouble		0684	
Memory Fail		0685	
Low Battery		0686	
Panel AC Fail		0687	
EZM Tamper		0688	
Alarm Output Superv.		0689	
Ambush		0698	
Panic		0699	
Fire		0700	
Auxiliary ‡		0701	
Tamper		0702	
Fail to Open		0703	
Fail to Close		0704	
Keyfob Low Battery		0705	

CS SYSTEM REPORTING CODES:

1. Enter in corresponding address location (left and right digits).

   NOTE: Left digit is the first digit and right digit is the second digit in a two digit CS receiver format.

2. Valid entries are: 1-9, 0 and B-F.

   NOTE: A is not permitted.

3. To disable a code leave boxes blank (•).

   NOTE: Dark shaded data value box shows option not available.

4. Press ENTER to save.

‡ **NOTE:** Keypad Aux. is not to be selected for UL Installations.

CS AREA & SYSTEM REPORTING OPTIONS (ADDRESS 0785, 0786 & 0788)

DISABLE OPENING REPORTS ADDRESS 0785	
LEFT DIGIT	RIGHT DIGIT (SUM OF DATA VALUES)
blank (•)	

RIGHT DATA VALUES (CIRCLE ✎)	AREA
1	AREA 1
2	AREA 2
4	AREA 3
8	AREA 4

[Default = blank (•) blank (•)]

DISABLE CLOSING REPORTS ADDRESS 0786	
LEFT DIGIT	RIGHT DIGIT (SUM OF DATA VALUES)
blank (•)	

RIGHT DATA VALUES (CIRCLE ✎)	AREA
1	AREA 1
2	AREA 2
4	AREA 3
8	AREA 4

[Default = blank (•) blank (•)]

OPENING REPORT OPTIONS:

☞ 1. Select the desired option by circling ✎ the data values for each digit (left and right).

☞ 2. Add the data values (ex: F=15=(1+2+4+8) from the selected options. See page 13).

☞ 3. Enter in address location (left and right digits).

NOTE: Dark shaded data value box shows option not available. Press ENTER to save.

0788	CS System Report Options		
Default			Option
OFF		1	Backup Report on Telco 1 & 2
ON		2	Touch-tone Dialing Only *
OFF		3	Touch-tone Dialing w/Rotary Backup *
OFF		4	RESERVED
OFF		5	Cancel Next Test Timer on any Report
OFF		6	Disable Wait for Silence (Pager Format)
OFF		7	Disable Wait for Handshake on Transmit
OFF		8	Disable Auto Dial Tone Detect

CS SYSTEM REPORTING OPTIONS:

☞ 1. Select the desired option entering the option number (1-8) for each digit.

☞ 2. Enter corresponding option number in address location.

NOTE: Dark shaded data value box shows option not available.

☞ 3. Press ENTER to save.

*** NOTE:** If neither Touch-tone Dialing nor Touch-tone w/ Rotary Backup is selected, then system defaults automatically to Rotary Dialing. Leave blank (•) to select Rotary Dialing.

CS ZONE REPORTING OPTIONS (ADDRESS 0720-0783)

ADDRESS 0720-0727															
CONTROL PANEL ZONES REPORT CODE															
ZONE 1		ZONE 2		ZONE 3		ZONE 4		ZONE 5		ZONE 6		ZONE 7		ZONE 8	
0720		0721		0722		0723		0724		0725		0726		0727	

ADDRESS 0728-0731							
ZONES REPORT CODE							
ZONE 9		ZONE 10		ZONE 11		ZONE 12	
0728		0729		0730		0731	

ADDRESS 0732-0735							
ZONES REPORT CODE							
ZONE 13		ZONE 14		ZONE 15		ZONE 16	
0732		0733		0734		0735	

ADDRESS 0736-0739							
ZONES REPORT CODE							
ZONE 17		ZONE 18		ZONE 19		ZONE 20	
0736		0737		0738		0739	

ADDRESS 0740-0743							
ZONES REPORT CODE							
ZONE 21		ZONE 22		ZONE 23		ZONE 24	
0740		0741		0742		0743	

ADDRESS 0744-0747							
ZONES REPORT CODE							
ZONE 25		ZONE 26		ZONE 27		ZONE 28	
0744		0745		0746		0747	

ADDRESS 0748-0751							
ZONES REPORT CODE							
ZONE 29		ZONE 30		ZONE 31		ZONE 32	
0748		0749		0750		0751	

ADDRESS 0752-0759															
CONTROL PANEL ZONES REPORT CODE															
ZONE 33		ZONE 34		ZONE 35		ZONE 36		ZONE 37		ZONE 38		ZONE 39		ZONE 40	
0752		0753		0754		0755		0756		0757		0758		0759	

ADDRESS 0760-0763							
ZONES REPORT CODE							
ZONE 41		ZONE 42		ZONE 43		ZONE 44	
0760		0761		0762		0763	

ADDRESS 0764-0767							
ZONES REPORT CODE							
ZONE 45		ZONE 46		ZONE 47		ZONE 48	
0764		0765		0766		0767	

ADDRESS 0768-0771							
ZONES REPORT CODE							
ZONE 49		ZONE 50		ZONE 51		ZONE 52	
0768		0769		0770		0771	

ADDRESS 0772-0775							
ZONES REPORT CODE							
ZONE 53		ZONE 54		ZONE 55		ZONE 56	
0772		0773		0774		0775	

ADDRESS 0776-0779							
ZONES REPORT CODE							
ZONE 57		ZONE 58		ZONE 59		ZONE 60	
0776		0777		0778		0779	

ADDRESS 0780-0783							
ZONES REPORT CODE							
ZONE 61		ZONE 62		ZONE 63		ZONE 64	
0780		0781		0782		0783	

Default for Group Zone Report Codes depends on Easy Menu Question “RCVR. FORMAT”.

ZONE REPORT CODE OPTIONS
DATA ENTRIES

NOTE: If “Zone Doubling” (Address 1423) is **not** enabled, then Zones 1-8 are included in the control panel and Zones 9-64 are EZM Zones. If “Zone Doubling” is enabled, then Zones 1-16 are included in the control panel and Zones 17-64 are EZM Zones. See Address 1455-1468 to enable “EZM Group Options”.

DATA ENTRIES LEFT	MODEM CODE
1	Fire
2	Panic
3	Burglary
4	Hold up
7	Gas Alarm
8	Heat Alarm
0	Auxiliary Alarm
B	24 Hour Auxiliary

PULSE EVENT CODE will be the first digit of the 2 digit reporting code. The second digit will be the second digit of the reporting zone. For example, for zone 9 (address 0728), if the right digit is “3", then the reporting code is ”39". For example, for zone 15 (address 0734), if the right digit is “4", then the reporting code is ”45".

MODEM CODES determine the zone types reported for the following formats: SIA and ADEMCO Point ID.

☞ 1. Select the desired Modem Code for each zone from the table shown.

CS USER REPORTING OPTIONS (ADDRESS 0800-0835)

Enable Users to Report Opening and Closings	ADDR	USERS 1 → 8								ADDR	USERS 9 → 16							
		U1	U2	U3	U4	U5	U6	U7	U8		U9	U10	U11	U12	U13	U14	U15	U16
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
Enable Opening Report, Telco 1	0800									0801								
Enable Closing Report, Telco 1	0809									0810								
Enable Opening Report, Telco 3	0818									0819								
Enable Closing Report, Telco 3	0827									0828								

Enable Users to Report Opening and Closings	ADDR	USERS 17 → 24								ADDR	USERS 25 → 32							
		U17	U18	U19	U20	U21	U22	U23	U24		U25	U26	U27	U28	U29	U30	U31	U32
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
Enable Opening Report, Telco 1	0802									0803								
Enable Closing Report, Telco 1	0811									0812								
Enable Opening Report, Telco 3	0820									0821								
Enable Closing Report, Telco 3	0829									0830								

Enable Users to Report Opening and Closings	ADDR	USERS 33 → 40								ADDR	USERS 41 → 48							
		U33	U34	U35	U36	U37	U38	U39	U40		U41	U42	U43	U44	U45	U46	U47	U48
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
Enable Opening Report, Telco 1	0804									0805								
Enable Closing Report, Telco 1	0813									0814								
Enable Opening Report, Telco 3	0822									0823								
Enable Closing Report, Telco 3	0831									0832								

Enable Users to Report Opening and Closings	ADDR	USERS 49 → 56								ADDR	USERS 57 → 64							
		U49	U50	U51	U52	U53	U54	U55	U56		U57	U58	U59	U60	U61	U62	U63	U64
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
Enable Opening Report, Telco 1	0806									0807								
Enable Closing Report, Telco 1	0815									0816								
Enable Opening Report, Telco 3	0824									0825								
Enable Closing Report, Telco 3	0833									0834								

Enable Users to Report Opening and Closings	ADDR	USERS 65 → 68							
		U65	U66	U67	U68				
		1	2	3	4	5	6	7	8
Enable Opening Report, Telco 1	0808	■		■		■	■	■	■
Enable Closing Report, Telco 1	0817					■	■	■	■
Enable Opening Report, Telco 3	0826	■		■		■	■	■	■
Enable Closing Report, Telco 3	0835					■	■	■	■

User 65 = Auto Arming/Disarming
User 66 = Quickloader Remote Arming/Disarming
User 67 = Easy Arming (Opening not applicable)
User 68 = Keyswitch Arming

NOTE: These opening events will report as the user number shown. Also, Keyfobs 1-8 (see Easy Menu Program Driven Mode) will report as Users 57-64, respectively.

CS USER REPORTING OPTIONS: [Default = blank (•) from address 0800-0835]

☞ 1. Select the desired option entering the option number (1-8) for each digit.

☞ 2. At the keypad, enter corresponding option number in address location. **NOTE:** Dark shaded data value box shows option not available.

☞ 3. Press [ENTER] to save.

EZM GROUP OPTIONS (ADDRESS 1455-1468)

EZM Group 1	EZM Group 2	EZM Group 3	EZM Group 4	EZM Group 5	EZM Group 6
ADDRESS 1455	ADDRESS 1456	ADDRESS 1457	ADDRESS 1458	ADDRESS 1459	ADDRESS 1460

EZM Group 7	EZM Group 8	EZM Group 9	EZM Group 10	EZM Group 11	EZM Group 12
ADDRESS 1461	ADDRESS 1462	ADDRESS 1463	ADDRESS 1464	ADDRESS 1465	ADDRESS 1466

EZM Group 13	EZM Group 14
ADDRESS 1467	ADDRESS 1468

Default depends on Easy Menu Question "# OF ZNS IN RREA 1 ENTER # ZONES" and "EZ ZONE DOUBLING? Y/N". For example, if 64 Zones are used and Zone Doubling is **not** enabled, then all 14 Groups will be automatically enabled. If 64 Zones are used and Zone Doubling is enabled, then only Groups 1-12 will be automatically enabled.

NOTE: If "Zone Doubling" (Address 1423, option 1) is **not** enabled, then Zones 1-8 are included in the control panel and Zones 9-64 (Groups 1-14) are EZM Zones. If "Zone Doubling" is enabled, then Zones 1-16 are included in the control panel and Zones 17-64 (Groups 1-12) are EZM Zones (and Groups 13 and 14 must not be used).

EZM TYPE	
DATA ENTRIES	OPTION
blank (•)	Not used (No EZM present)
1	4-Zone EZM

EZM GROUP	ZONES COVERED	
	NORMAL	DOUBLED
1	9-12	17-20
2	13-16	21-24
3	17-20	25-28
4	21-24	29-32
5	25-28	33-36
6	29-32	37-40
7	33-36	41-44
8	37-40	45-48
9	41-44	49-52
10	45-48	53-56
11	49-52	57-60
12	53-56	61-64
13	57-60	
14	61-64	

EZM GROUP OPTIONS: Up to 14 Groups of 4 Zones each may be programmed depending on the number of Zones used and which EZM modules are connected. Each Group represents 4 Zones.

☞ 1. Select EZM type from the table shown.

☞ 2. Enter either blank (•) or "1" in corresponding address locations above.

NOTE: Dark shaded data value box shows option not available.

☞ 3. Press ENTER to save.

AREA ARMING OPTIONS (ADDRESS 1469-1472)

"Arming Area 1" Options	ADDRESS 1469

[Default = blank (•) blank (•)]

PRIORITY ARMING "Arming Area 1" Options	
DATA ENTRIES	OPTION
blank (•) blank (•)	Not Used
• E	Priority Areas 2, 3 and 4
• 2	Priority Area 2
• 4	Priority Area 3
• 8	Priority Area 4

"Arming Area 2" Options	ADDRESS 1470

[Default = blank (•) blank (•)]

PRIORITY ARMING "Arming Area 2" Options	
DATA ENTRIES	OPTION
blank (•) blank (•)	Not Used
• D	Priority Areas 1, 3 and 4
• 1	Priority Area 1
• 4	Priority Area 3
• 8	Priority Area 4

"Arming Area 3" Options	ADDRESS 1471

[Default = blank (•) blank (•)]

PRIORITY ARMING "Arming Area 3" Options	
DATA ENTRIES	OPTION
blank (•) blank (•)	Not Used
• B	Priority Areas 1, 2 and 4
• 1	Priority Area 1
• 2	Priority Area 2
• 8	Priority Area 4

"Arming Area 4" Options	ADDRESS 1472

[Default = blank (•) blank (•)]

PRIORITY ARMING "Arming Area 4" Options	
DATA ENTRIES	OPTION
blank (•) blank (•)	Not Used
• 7	Priority Areas 1, 2 and 3
• 1	Priority Area 1
• 2	Priority Area 2
• 4	Priority Area 3

PRIORITY AREA ARMING:
Prevents area arming if the associated "Priority Area" has not yet been armed. In other words, the "Priority Area" must be armed before the "Arming Area" can be armed.

☞ 1. Select option from the table shown.

☞ 2. Enter either "blank (•) blank (•)" or other digits/letters in corresponding address location. **NOTE:** Dark shaded data value box shows option not available.

☞ 3. Press ENTER to save.

AREA BELL CONTROL OPTIONS (ADDRESS 1473-1488)

1473	Burglary Output Turns Off upon Disarm		
Default			Option: **Disarming Area 1:**
ON		**1**	Area 1 Burg Output Silenced
OFF		**2**	Area 2 Burg Output Silenced
OFF		**3**	Area 3 Burg Output Silenced
OFF		**4**	Area 4 Burg Output Silenced

1474	Burglary Output Turns Off upon Disarm		
Default			Option: **Disarming Area 2:**
ON		**1**	Area 1 Burg Output Silenced
OFF		**2**	Area 2 Burg Output Silenced
OFF		**3**	Area 3 Burg Output Silenced
OFF		**4**	Area 4 Burg Output Silenced

1475	Burglary Output Turns Off upon Disarm		
Default			Option: **Disarming Area 3:**
ON		**1**	Area 1 Burg Output Silenced
OFF		**2**	Area 2 Burg Output Silenced
OFF		**3**	Area 3 Burg Output Silenced
OFF		**4**	Area 4 Burg Output Silenced

1476	Burglary Output Turns Off upon Disarm		
Default			Option: **Disarming Area 4:**
ON		**1**	Area 1 Burg Output Silenced
OFF		**2**	Area 2 Burg Output Silenced
OFF		**3**	Area 3 Burg Output Silenced
OFF		**4**	Area 4 Burg Output Silenced

1477	Pulsed Burg Output Turns Off upon Disarm		
Default			Option: **Disarming Area 1:**
ON		**1**	Area 1 Pulsed Burg Output Silenced
OFF		**2**	Area 2 Pulsed Burg Output Silenced
OFF		**3**	Area 3 Pulsed Burg Output Silenced
OFF		**4**	Area 4 Pulsed Burg Output Silenced

1478	Pulsed Burg Output Turns Off upon Disarm		
Default			Option: **Disarming Area 2:**
ON		**1**	Area 1 Pulsed Burg Output Silenced
OFF		**2**	Area 2 Pulsed Burg Output Silenced
OFF		**3**	Area 3 Pulsed Burg Output Silenced
OFF		**4**	Area 4 Pulsed Burg Output Silenced

1479	Pulsed Burg Output Turns Off upon Disarm		
Default			Option: **Disarming Area 3:**
ON		**1**	Area 1 Pulsed Burg Output Silenced
OFF		**2**	Area 2 Pulsed Burg Output Silenced
OFF		**3**	Area 3 Pulsed Burg Output Silenced
OFF		**4**	Area 4 Pulsed Burg Output Silenced

1480	Pulsed Burg Output Turns Off upon Disarm		
Default			Option: **Disarming Area 4:**
ON		**1**	Area 1 Pulsed Burg Output Silenced
OFF		**2**	Area 2 Pulsed Burg Output Silenced
OFF		**3**	Area 3 Pulsed Burg Output Silenced
OFF		**4**	Area 4 Pulsed Burg Output Silenced

1481	PGM1 Output Turns Off upon Disarm		
Default			Option: **Disarming Area 1:**
ON		**1**	Area 1 PGM1 Output Silenced
OFF		**2**	Area 2 PGM1 Output Silenced
OFF		**3**	Area 3 PGM1 Output Silenced
OFF		**4**	Area 4 PGM1 Output Silenced

1482	PGM1 Output Turns Off upon Disarm		
Default			Option: **Disarming Area 2:**
ON		**1**	Area 1 PGM1 Output Silenced
OFF		**2**	Area 2 PGM1 Output Silenced
OFF		**3**	Area 3 PGM1 Output Silenced
OFF		**4**	Area 4 PGM1 Output Silenced

1483	PGM1 Output Turns Off upon Disarm		
Default			Option: **Disarming Area 3:**
ON		**1**	Area 1 PGM1 Output Silenced
OFF		**2**	Area 2 PGM1 Output Silenced
OFF		**3**	Area 3 PGM1 Output Silenced
OFF		**4**	Area 4 PGM1 Output Silenced

1484	PGM1 Output Turns Off upon Disarm		
Default			Option: **Disarming Area 4:**
ON		**1**	Area 1 PGM1 Output Silenced
OFF		**2**	Area 2 PGM1 Output Silenced
OFF		**3**	Area 3 PGM1 Output Silenced
OFF		**4**	Area 4 PGM1 Output Silenced

1485	PGM2 Output Turns Off upon Disarm		
Default			Option: **Disarming Area 1:**
ON		**1**	Area 1 PGM2 Burg Output Silenced
OFF		**2**	Area 2 PGM2 Burg Output Silenced
OFF		**3**	Area 3 PGM2 Burg Output Silenced
OFF		**4**	Area 4 PGM2 Burg Output Silenced

1486	PGM2 Output Turns Off upon Disarm		
Default			Option: **Disarming Area 2:**
ON		**1**	Area 1 PGM2 Burg Output Silenced
OFF		**2**	Area 2 PGM2 Burg Output Silenced
OFF		**3**	Area 3 PGM2 Burg Output Silenced
OFF		**4**	Area 4 PGM2 Burg Output Silenced

1487	PGM2 Output Turns Off upon Disarm		
Default			Option: **Disarming Area 3:**
ON		**1**	Area 1 PGM2 Burg Output Silenced
OFF		**2**	Area 2 PGM2 Burg Output Silenced
OFF		**3**	Area 3 PGM2 Burg Output Silenced
OFF		**4**	Area 4 PGM2 Burg Output Silenced

1488	PGM2 Output Turns Off upon Disarm		
Default			Option: **Disarming Area 4:**
ON		**1**	Area 1 PGM2 Burg Output Silenced
OFF		**2**	Area 2 PGM2 Burg Output Silenced
OFF		**3**	Area 3 PGM2 Burg Output Silenced
OFF		**4**	Area 4 PGM2 Burg Output Silenced

OUTPUT TURNS OFF UPON DISARM:

Select options for any of the 4 Outputs. By default, the ability to turn off an output upon disarm is not allowed. For example, the ability to silence an Area 1 through Area 4 output via an Area 1 keypad is not enabled by default. To enable selected area output control, enter the number (1,2,3,4) accordingly. For example, if you wish to grant an Area 1 keypad the ability to turn off an Area 2 PGM2 output, enter "2" in Address 1485.

☞ Enter digit in address location. **NOTE:** Dark shaded data value box shows option not available. Press to save.

KEYPAD OPTIONS (ADDRESS 1425-1431, 1440-1446)

Enable Keypad Type & Activation	ADDR	Enable Keypad Type	Keypad Area Assignment
		Blank (•) = Burg Keypad 2 = Wizard ‡ ‡Not for UL Installations	Blank (•) = Disabled 1 = Area 1 2 = Area 2 3 = Area 3 4 = Area 4
Keypad 1	1425		
Keypad 2	1426		
Keypad 3	1427		
Keypad 4	1428		
Keypad 5	1429		
Keypad 6	1430		
Keypad 7	1431		
[Default = blank (•) from address 1425-1431			

KEYPAD TYPE: Up to 7 keypads may be programmed, if they are connected.

NOTE: See Keypad Configuration Mode.

1. Select keypad type for each keypad from the tables shown.
2. Enter data in corresponding address locations.
3. Press [ENTER] to save.

Enable Keypad Options	ADDR	Enable Keypad Options							
		Keypad Fire	Keypad Aux.‡	Keypad Panic	RSRVD	Ambush	Easy Arming	Panel Access	RSRVD
		1	2	3	4	5	6	7	8
Keypad 1 Options	1440								
Keypad 2 Options	1441								
Keypad 3 Options	1442								
Keypad 4 Options	1443								
Keypad 5 Options	1444								
Keypad 6 Options	1445								
Keypad 7 Options	1446								
[Default = blank (•) from address 1440-1446] ‡ **NOTE:** Keypad Aux. is not to be selected for UL Installations.									

ENABLE KEYPAD OPTIONS: Select options for any of the 7 keypads.

☞ 1. Select the desired option entering the option number (1-8) for each digit.

☞ 2. At the keypad, enter corresponding option number in address location.

NOTE: Dark shaded data value box shows option not available.

☞ 3. Press [ENTER] to save.

TEMPERATURE DISPLAY AT KEYPAD (ADDRESS 1666-1668)

☞ --ZONE 6 TEMPERATURE SENSOR--

1666	Temperature Lower Limit‡		
Default			Option
OFF		1	Binary Temperature Value 1°
OFF		2	Binary Temperature Value 2°
OFF		3	Binary Temperature Value 4°
OFF		4	Binary Temperature Value 8°
OFF		5	Binary Temperature Value 16°
OFF		6	Binary Temperature Value 32°
OFF		7	Binary Temperature Value 64°
OFF		8	Enable for Negative Temperature Value

1667	Temperature Upper Limit‡		
Default			Option
OFF		1	Binary Temperature Value 1°
OFF		2	Binary Temperature Value 2°
OFF		3	Binary Temperature Value 4°
OFF		4	Binary Temperature Value 8°
OFF		5	Binary Temperature Value 16°
OFF		6	Binary Temperature Value 32°
OFF		7	Binary Temperature Value 64°
OFF		8	Enable for Negative Temperature Value

1668	Enable Temperature Options‡		
Default			Option
OFF		1	Enable Temperature Display Option
OFF		2	Select Degrees Celsius
OFF		3	Report Temperature Alarm (Zone 6)
OFF		4	Reserved
OFF		5	Reserved
OFF		6	Reserved
OFF		7	Reserved
OFF		8	Reserved

Temperature Display at Keypad

The temperature is displayed instead of the date on line 2 of the keypad. The keypad will display from –22F to 140F (or -30C to 60C). Fahrenheit is the default setting, select Celsius by enabling address 1668 option 2. When this Temperature Display Option is enabled, Zone 6 becomes the input for the GEM-TEMP64 Temperature Sensor module and Zone 6 of the panel becomes inoperative; if Zone Doubling is selected, zones 6, 14 will be inoperative.

Address 1668 option 3 enables Zone 6 to report a temperature problem. Address 1666 (options 1-7) set the lower limit temperature value and address 1667 (options 1-7) sets the upper limit temperature value (both values are set in binary). If the temperature detected by the panel is above or below these set limits, the panel will report an alarm on Zone 6. To function and report properly, Zone 6 must be selected as a reporting zone, 24hr zone in area 1 and auto-resetable. At both 1666 and 1667 addresses, option 8 sets positive or negative temperature. If the temperature of 0 degrees is required, "negative zero" (-0) degrees must be used (+0 or an empty location is not a valid temperature). To simulate the sensor module, a power supply can be connected to Zone 6 and set from .55v to 3.05v to display the whole temperature range. Temperature values are read and updated every 5 seconds. To report an outer limit temperature, the temperature must be out of limits for 2 seconds. To avoid false alarm reports, the limits have a threshold of 5 degrees in the software. Two new logs have been created for temperature out of limits and restore. If the [✳] key is depressed and held down for 2 seconds, the date will display for 5 seconds.

In addition, three addresses must be enabled (either via Quickloader or via direct address programming) in order for the **Temperature Display at Keypad** feature to operate.

The following features must be enabled In Quickloader (or in direct address programming):

1. **Keypad Assignment**, **Temperature Settings** tab, **Enable Temperature Display** (Address 1668, option 1)
2. **Keypad Assignment**, **Keypad Features** tab, **Enable Keypad Time/Date Display** (Address 1420, option 7)
3. **Keypad Assignment**, **Keypad Features** tab, **Enable Set Time/Date Message** (Address 2051, option 1)

Note: If these three addresses are set and power (AC and battery) are subsequently removed, they keypad will indicate that the time and date are lost and will need to be reset. See WI1425 for more information. **Note:** The GEM-TEMP64 Temperature Sensor module will only trip once per arming cycle.

‡This feature not evaluated by UL.

ZONE OPTIONS - ZONES 1 TO 16 (ADDRESS 0900-1019)

	ZONE OPTIONS	ADDR	ZONES 1 → 8								ADDR	ZONES 9 → 16							
			Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8		Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
			1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
	50ms Loop Response (A)	0900									0964								
✞✦	Priority	0901									0965								
	Priority with Bypass	0902									0966								
	Auto-Bypass	0903									0967								
✞✦	Selective Bypass	0904									0968								
	Keyswitch Arming	0905									0969								
	Auto-Bypass Re-entry	0906									0970								
	Pre-Alarm Warning	0907									0971								
	Never Arm	0908									0972								
	24-Hour Zone	0909									0973								
✞✦	Alarm Output	0910									0974								
✞	Pulsed Alarm Output	0911									0975								
	PGM1 Output	0912									0976								
	PGM2 Output	0913									0977								
✞	Entry/Exit 1	0914									0978								
	Entry/Exit 2	0915									0979								
✞	Exit/Entry Follower	0916									0980								
✞★	Auto Reset	0917									0981								
✞★	Swinger Shutdown	0918									0982								
✞	Chime	0919									0983								
	Abort Delay	0920									0984								
	Power-up Delay	0921									0985								
	Day Zone Open	0922									0986								
	Day Zone Short	0923									0987								
	Alarm on Day Zone	0924									0988								
✞	Alarm Telco 1	0925									0989								
	Alarm Restore 1	0926									0990								
	Trouble Telco 1	0927									0991								
	Trouble Restore 1	0928									0992								
	Alarm Telco 3	0929									0993								
	Alarm Restore 3	0930									0994								
	Trouble Telco 3	0931									0995								
	Trouble Restore 3	0932									0996								
	No EOL Resistor	0933									0997								
	Trouble on Open	0934									0998								
	Trouble on Short	0935									0999								
✞	Zone Area 1	0936									1000								
	Zone Area 2	0937									1001								
	Zone Area 3	0938									1002								
	Zone Area 4	0939									1003								
	Interior (Stay) Bypass	0940									1004								
	Keypad Sounder on Alarm	0941									1005								
✞	2-Wire Smoke Detectors (B)	0942									1006								
✞	Fire (C)	0943									1007								
	Fire Alarm Verification (C)	0944									1008								
	RESERVED	0945									1009								
	Zone ANDing Group 1	0946									1010								
	Zone ANDing Group 2	0947									1011								
	Zone ANDing Group 3	0948									1012								
	Zone ANDing Group 4	0949									1013								
	Sensor Watch	0950									1014								
	RESERVED	0951									1015								
	Chime 2	0952									1016								
	RESERVED	0953									1017								
	RESERVED	0954									1018								
	Carbon Monoxide	0955									1019								

For notes (A), (B), (C), ✞, ✦, ★, see page 30.

ZONE OPTIONS: Select zone options for any zone.

☞ 1. Select the desired zone option by entering the option number (1-8) for each selected zone.

☞ 2. Enter corresponding option number in address location.
NOTE: Dark shaded data value box shows option not available. Press **ENTER** to save.

ZONE OPTIONS - ZONES 17 TO 32 (ADDRESS 1029-1147)

	ZONE FEATURES	ADDR	ZONES 17 → 24								ADDR	ZONES 25 → 32							
			Z17	Z18	Z19	Z20	Z21	Z22	Z23	Z24		Z25	Z26	Z27	Z28	Z29	Z30	Z31	Z32
			1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
✞✦	Priority	1029									1093								
	Priority with Bypass	1030									1094								
	Auto-Bypass	1031									1095								
✞✦	Selective Bypass	1032									1096								
	Keyswitch Arming	1033									1097								
	Auto-Bypass Re-entry	1034									1098								
	Pre-Alarm Warning	1035									1099								
	Never Arm	1036									1100								
	24-Hour Zone	1037									1101								
✞✦	Alarm Output	1038									1102								
✞	Pulsed Alarm Output	1039									1103								
	PGM1 Output	1040									1104								
	PGM2 Output	1041									1105								
✞	Entry/Exit 1	1042									1106								
	Entry/Exit 2	1043									1107								
✞	Exit/Entry Follower	1044									1108								
✞★	Auto Reset	1045									1109								
✞★	Swinger Shutdown	1046									1110								
✞	Chime	1047									1111								
	Abort Delay	1048									1112								
	Power-up Delay	1049									1113								
	Day Zone Open	1050									1114								
	Day Zone Short	1051									1115								
	Alarm on Day Zone	1052									1116								
✞	Alarm Telco 1	1053									1117								
	Alarm Restore 1	1054									1118								
	Trouble Telco 1	1055									1119								
	Trouble Restore 1	1056									1120								
	Alarm Telco 3	1057									1121								
	Alarm Restore 3	1058									1122								
	Trouble Telco 3	1059									1123								
	Trouble Restore 3	1060									1124								
	No EOL Resistor	1061									1125								
	Trouble on Open	1062									1126								
	Trouble on Short	1063									1127								
✞	Zone Area 1	1064									1128								
	Zone Area 2	1065									1129								
	Zone Area 3	1066									1130								
	Zone Area 4	1067									1131								
	Interior (Stay) Bypass	1068									1132								
	Keypad Sounder on Alarm	1069									1133								
✞	Fire (C)	1071									1135								
	Fire Alarm Verification (C)	1072									1136								
	Zone ANDing Group 1	1074									1138								
	Zone ANDing Group 2	1075									1139								
	Zone ANDing Group 3	1076									1140								
	Zone ANDing Group 4	1077									1141								
	Sensor Watch	1078									1142								
	RESERVED	1079									1143								
	Chime 2	1080									1144								
	RESERVED	1081									1145								
	RESERVED	1082									1146								
	Carbon Monoxide	1083									1147								

For programming instructions, see page 29.

NOTES:

(A) 50ms Loop Response only available for zones 1-8. If Zone Doubling is enabled, Zones 9-16 will follow the loop response programming for Zones 1-8. For all other Zones, loop response is determined by jumpers on the GEM-EZM8 and/or keypad configuration on the GEM-DK1CA or GEM-K1VPS.

(B) 2-wire Smoke Detectors only available for zones 7 & 8, and **Fire** must also be selected.

(C) If Fire Alarm Verification is selected, then Fire must also be selected.

✦ Enabled when "Enable SIA CP-01 Features?" is activated (Answer "Yes" in the EZ Programming Menu).

★ Disabled when "Enable SIA CP-01 Features?" is activated (Answer "Yes" in the EZ Programming Menu). Disable Auto-Reset on non-fire zones for SIA CP-01 installations.

✞ When the Easy Program Menu is used, these features are enabled by default.

DEFAULTS: The zone options indicated are automatically set after exiting the Easy Menu Driven Mode.

- *Priority, Selective Bypass, Alarm Output, Auto Reset, Swinger Shutdown* and *Zone Area 1* are enabled for the total number of zones entered in "## OF ZONES IN AREA1 ENTER ## ZONES".
- *Alarm Telco 1* is enabled for the zone number(s) entered in "REPORT ALL ZONES TO CENTRAL ZONES? Y/N".
- *Entry/Exit 1* and *Chime* are enabled for the zone number(s) entered in "ENTRY/EXIT ZONES ENTER ZONE ##".
- *Exit/Entry Follower* and *Interior Bypass* are enabled for the zone number(s) entered in "INTERIOR ZONES ENTER ZONE ##".
- *Pulse Alarm Output* is enabled for the zone number(s) entered in "FIRE ZONES ENTER ZONE ##" or "2-WIRE FIRE ZNS ENTER ZONE ##".
- *Fire* is enabled for the zone number(s) entered in "FIRE ZONES ENTER ZONE ##".
- 2-Wire Smoke Detector is enabled for the zone number(s) entered in "2-WIRE FIRE ZNS ENTER ZONE ##".

ZONE OPTIONS - ZONES 33 TO 48 (ADDRESS 1157-1275)

	ZONE OPTIONS	ADDR	ZONES 33→ 40								ADDR	ZONES 41 → 48							
			Z33	Z34	Z35	Z36	Z37	Z38	Z39	Z40		Z41	Z42	Z43	Z44	Z45	Z46	Z47	Z48
			1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
	50ms Loop Response (A)																		
✞✦	Priority	1157									1221								
	Priority with Bypass	1158									1222								
	Auto-Bypass	1159									1223								
✞✦	Selective Bypass	1160									1224								
	Keyswitch Arming	1161									1225								
	Auto-Bypass Re-entry	1162									1226								
	Pre-Alarm Warning	1163									1227								
	Never Arm	1164									1228								
	24-Hour Zone	1165									1229								
✞✦	Alarm Output	1166									1230								
✞	Pulsed Alarm Output	1167									1231								
	PGM1 Output	1168									1232								
	PGM2 Output	1169									1233								
✞	Entry/Exit 1	1170									1234								
	Entry/Exit 2	1171									1235								
✞	Exit/Entry Follower	1172									1236								
✞★	Auto Reset	1173									1237								
✞★	Swinger Shutdown	1174									1238								
✞	Chime	1175									1239								
	Abort Delay	1176									1240								
	Power-up Delay	1177									1241								
	Day Zone Open	1178									1242								
	Day Zone Short	1179									1243								
	Alarm on Day Zone	1180									1244								
✞	Alarm Telco 1	1181									1245								
	Alarm Restore 1	1182									1246								
	Trouble Telco 1	1183									1247								
	Trouble Restore 1	1184									1248								
	Alarm Telco 3	1185									1249								
	Alarm Restore 3	1186									1250								
	Trouble Telco 3	1187									1251								
	Trouble Restore 3	1188									1252								
	No EOL Resistor	1189									1253								
	Trouble on Open	1190									1254								
	Trouble on Short	1191									1255								
✞	Zone Area 1	1192									1256								
	Zone Area 2	1193									1257								
	Zone Area 3	1194									1258								
	Zone Area 4	1195									1259								
	Interior (Stay) Bypass	1196									1260								
	Keypad Sounder on Alarm	1197									1261								
✞	2-Wire Smoke Detectors (B)	1198									1262								
✞	Fire (C)	1199									1263								
	Fire Alarm Verification (C)	1200									1264								
	RESERVED	1201									1265								
	Zone ANDing Group 1	1202									1266								
	Zone ANDing Group 2	1203									1267								
	Zone ANDing Group 3	1204									1268								
	Zone ANDing Group 4	1205									1269								
	Sensor Watch	1206									1270								
	RESERVED	1207									1271								
	Chime 2	1208									1272								
	RESERVED	1209									1273								
	RESERVED	1210									1274								
	Carbon Monoxide	1211									1275								

For programming instructions, see page 29.

For notes (A), (B), (C), ✞, ✦, ★, see page 30.

ZONE OPTIONS - ZONES 49 TO 64 (ADDRESS 1285-1403)

	ZONE FEATURES	ADDR	ZONES 49 → 56								ADDR	ZONES 57 → 64							
			Z49	Z50	Z51	Z52	Z53	Z54	Z55	Z56		Z57	Z58	Z59	Z60	Z61	Z62	Z63	Z64
			1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
✞✦	Priority	1285									1349								
	Priority with Bypass	1286									1350								
	Auto-Bypass	1287									1351								
✞✦	Selective Bypass	1288									1352								
	Keyswitch Arming	1289									1353								
	Auto-Bypass Re-entry	1290									1354								
	Pre-Alarm Warning	1291									1355								
	Never Arm	1292									1356								
	24-Hour Zone	1293									1357								
✞✦	Alarm Output	1294									1358								
✞	Pulsed Alarm Output	1295									1359								
	PGM1 Output	1296									1360								
	PGM2 Output	1297									1361								
✞	Entry/Exit 1	1298									1362								
	Entry/Exit 2	1299									1363								
✞	Exit/Entry Follower	1300									1364								
✞★	Auto Reset	1301									1365								
✞★	Swinger Shutdown	1302									1366								
✞	Chime	1303									1367								
	Abort Delay	1304									1368								
	Power-up Delay	1305									1369								
	Day Zone Open	1306									1370								
	Day Zone Short	1307									1371								
	Alarm on Day Zone	1308									1372								
✞	Alarm Telco 1	1309									1373								
	Alarm Restore 1	1310									1374								
	Trouble Telco 1	1311									1375								
	Trouble Restore 1	1312									1376								
	Alarm Telco 3	1313									1377								
	Alarm Restore 3	1314									1378								
	Trouble Telco 3	1315									1379								
	Trouble Restore 3	1316									1380								
	No EOL Resistor	1317									1381								
	Trouble on Open	1318									1382								
	Trouble on Short	1319									1383								
✞	Zone Area 1	1320									1384								
	Zone Area 2	1321									1385								
	Zone Area 3	1322									1386								
	Zone Area 4	1323									1387								
	Interior (Stay) Bypass	1324									1388								
	Keypad Sounder on Alarm	1325									1389								
✞	Fire (C)	1327									1391								
	Fire Alarm Verification (C)	1328									1392								
	Zone ANDing Group 1	1330									1394								
	Zone ANDing Group 2	1331									1395								
	Zone ANDing Group 3	1332									1396								
	Zone ANDing Group 4	1333									1397								
	Sensor Watch	1334									1398								
	RESERVED	1335									1399								
	Chime 2	1336									1400								
	RESERVED	1337									1401								
	RESERVED	1338									1402								
	Carbon Monoxide	1339									1403								

For programming instructions, see page 29.

For notes (A), (B), (C), ✞, ✦, ★, see page 30.

EXTERNAL RELAY CONTROL (ADDRESS 1489-1648)

ADDRESS 1489-1493 (RELAY EVENT 1)				
1489	1490	1491	1492	1493
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1494-1498 (RELAY EVENT 2)				
1494	1495	1496	1497	1498
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1499-1503 (RELAY EVENT 3)				
1499	1500	1501	1502	1503
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1504-1508 (RELAY EVENT 4)				
1504	1505	1506	1507	1508
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1509-1513 (RELAY EVENT 5)				
1509	1510	1511	1512	1513
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1514-1518 (RELAY EVENT 6)				
1514	1515	1516	1517	1518
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1519-1523 (RELAY EVENT 7)				
1519	1520	1521	1522	1523
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1524-1528 (RELAY EVENT 8)				
1524	1525	1526	1527	1528
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1529-1533 (RELAY EVENT 9)				
1529	1530	1531	1532	1533
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1534-1538 (RELAY EVENT 10)				
1534	1535	1536	1537	1538
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1539-1543 (RELAY EVENT 11)				
1539	1540	1541	1542	1543
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1544-1548 (RELAY EVENT 12)				
1544	1545	1546	1547	1548
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1549-1553 (RELAY EVENT 13)				
1549	1550	1551	1552	1553
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1554-1558 (RELAY EVENT 14)				
1554	1555	1556	1557	1558
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1559-1563 (RELAY EVENT 15)				
1559	1560	1561	1562	1563
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1564-1568 (RELAY EVENT 16)				
1564	1565	1566	1567	1568
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1569-1573 (RELAY EVENT 17)				
1569	1570	1571	1572	1573
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1574-1578 (RELAY EVENT 18)				
1574	1575	1576	1577	1578
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1579-1583 (RELAY EVENT 19)				
1579	1580	1581	1582	1583
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1584-1588 (RELAY EVENT 20)				
1584	1585	1586	1587	1588
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1589-1593 (RELAY EVENT 21)				
1589	1590	1591	1592	1593
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1594-1598 (RELAY EVENT 22)				
1594	1595	1596	1597	1598
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1599-1603 (RELAY EVENT 23)				
1599	1600	1601	1602	1603
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1604-1608 (RELAY EVENT 24)				
1604	1605	1606	1607	1608
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1609-1613 (RELAY EVENT 25)				
1609	1610	1611	1612	1613
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1614-1618 (RELAY EVENT 26)				
1614	1615	1616	1617	1618
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1619-1623 (RELAY EVENT 27)				
1619	1620	1621	1622	1623
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1624-1628 (RELAY EVENT 28)				
1624	1625	1626	1627	1628
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1629-1633 (RELAY EVENT 29)				
1629	1630	1631	1632	1633
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1634-1638 (RELAY EVENT 30)				
1634	1635	1636	1637	1638
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1639-1643 (RELAY EVENT 31)				
1639	1640	1641	1642	1643
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

ADDRESS 1644-1648 (RELAY EVENT 32)				
1644	1645	1646	1647	1648
RELAY #	AREA	TIMEOUT	EVENT ID	COND.

TO PROGRAM, SEE NEXT PAGE

[Default = blank (•) from address 1489-1648].

To program, follow the 5 steps below.

RELAY EVENT OPTIONS				
RELAY #	**AREA**	**TIMEOUT**	**EVENT ID**	**COND.**
See Step 1 below	**See Step 2 below**	**See Step 3 below**	**See Step 4 below**	**See Step 5 below**

STEP 1

RELAY # OPTIONS: The GEM-P1664 supports 16 external relays from Relay Module RM3008. Multiple events may be "mapped" to each relay, up to a maximum of 32 events.

☞ Select the **relay number** from **Table 1** (next page); enter in corresponding address location.

STEP 2

AREA OPTIONS: Each relay event can be assigned to Area 1, 2, 3 and / or 4.

☞ Select the **area** from **Table 2** (on next page); enter in corresponding address location.

STEP 3

TIMEOUTS: Each relay event can be assigned a timeout depending on Alarm Type option.

☞ If Alarm Type is selected for timeout in minutes or seconds, enter the 3-digit **timeout duration** in corresponding address location. To choose seconds or minutes, see step 5A below. 254 is maximum entry.

STEP 4

EVENT ID CODES: Each relay event can be assigned any of the available event IDs from **Table 4**.

☞ Select 2-digit **Event ID** from **Table 4** (on next page); enter in corresponding address locations (left and right digit).

STEP 5

RELAY EVENT CONDITION OPTIONS: Each relay event can be assigned an alarm type; and an activation condition; also, select a timeout type for each. Enter 5A in left area, enter 5B in right area.

☞ 5A. Select **Alarm Type** and **Timeout Type** from **Table 5A** (on next page); enter in corresponding left address location.

☞ 5B. Select **Activation Conditions** from **Table 5B** (on next page); enter in corresponding right address location.

Continued

RELAY EVENT OPTIONS				
RELAY #	AREA	TIMEOUT	EVENT ID	COND.
See Table 1 below	See Table 2 below (right nibble)	Enter a Time period, in seconds or minutes	See Table 4 below	See Tables 5A & 5B below

Table 1

DATA ENTRY		RELAY #
Left Nibble	Right Nibble	
blank (•)	blank (•)	NONE
blank (•)	1	1
blank (•)	2	2
blank (•)	3	3
blank (•)	4	4
blank (•)	5	5
blank (•)	6	6
blank (•)	7	7
blank (•)	8	8
blank (•)	9	9
blank (•)	0	10
blank (•)	B	11
blank (•)	C	12
blank (•)	D	13
blank (•)	E	14
blank (•)	F	15
1	blank (•)	16

Table 2

DATA ENTRY	TURN OFF ON AREA DISARM
blank (•)	NONE
1	Area 1
2	Area 2
3	Area 1 & Area 2
4	Area 3
5	Area 1 & Area 3
6	Area 2 & Area 3
7	Areas 1, 2 & 3
8	Area 4
9	Area 1 & Area 4
0	Area 2 & Area 4
B	Areas 1, 2 & 4
C	Areas 3 & 4
D	Areas 1, 3 & 4
E	Areas 2, 3 & 4
F	Areas 1-4

Table 5A

RELAY EVENT ALARM TYPE OPTIONS

LEFT DATA ENTRIES	ALARM TYPE	TIMEOUT TYPE
blank (•)	Burglary	Minutes
1	Fire	Minutes
4	Day Zone	Minutes
8	Burglary	Seconds
9	Fire	Seconds
C	Day Zone	Seconds

Table 5B

RELAY EVENT ACTIVATION CONDITIONS

RIGHT DATA ENTRIES	OPTIONS
1	Alarm
2	Restore
3	Trouble
4	Trouble Restore
5	Follow Zone

Table 4

EVENT ID CODES

DATA ENTRIES		OPTION
LEFT	RIGHT	
blank (•)	blank (•)	Area 1 Arm
blank (•)	1	Area 2 Arm
blank (•)	2	Area 3 Arm
blank (•)	3	Area 4 Arm
blank (•)	8	Zone 1
blank (•)	9	Zone 2
blank (•)	0	Zone 3
blank (•)	B	Zone 4
blank (•)	C	Zone 5
blank (•)	D	Zone 6
blank (•)	E	Zone 7
blank (•)	F	Zone 8
1	blank (•)	Zone 9
1	1	Zone 10
1	2	Zone 11
1	3	Zone 12
1	4	Zone 13
1	5	Zone 14
1	6	Zone 15
1	7	Zone 16
1	8	Zone 17
1	9	Zone 18
1	0	Zone 19
1	B	Zone 20
1	C	Zone 21
1	D	Zone 22
1	E	Zone 23
1	F	Zone 24
2	blank (•)	Zone 25
2	1	Zone 26
2	2	Zone 27
2	3	Zone 28
2	4	Zone 29
2	5	Zone 30
2	6	Zone 31
2	7	Zone 32
2	8	Zone 33
2	9	Zone 34
2	0	Zone 35
2	B	Zone 36
2	C	Zone 37

Table 4 (cont'd)

EVENT ID CODES

DATA ENTRIES		OPTION
LEFT	RIGHT	
2	D	Zone 38
2	E	Zone 39
2	F	Zone 40
3	blank (•)	Zone 41
3	1	Zone 42
3	2	Zone 43
3	3	Zone 44
3	4	Zone 45
3	5	Zone 46
3	6	Zone 47
3	7	Zone 48
3	8	Zone 49
3	9	Zone 50
3	0	Zone 51
3	B	Zone 52
3	C	Zone 53
3	D	Zone 54
3	E	Zone 55
3	F	Zone 56
4	blank (•)	Zone 57
4	1	Zone 58
4	2	Zone 59
4	3	Zone 60
4	4	Zone 61
4	5	Zone 62
4	6	Zone 63
4	7	Zone 64
6	8	Area 1 KP Ambush
6	9	Area 1 KP Panic
6	0	Area 1 KP Fire
6	B	Area 1 KP Aux ‡
6	C	Area 1 KP Tamper
6	D	Area 1 Fail to Open
6	E	Area 1 Fail to Close
7	blank (•)	Area 2 KP Ambush
7	1	Area 2 KP Panic
7	2	Area 2 KP Fire
7	3	Area 2 KP Aux ‡
7	4	Area 2 KP Tamper
7	5	Area 2 Fail to Open
7	6	Area 2 Fail to Close

Table 4 (cont'd)

EVENT ID CODES

DATA ENTRIES		OPTION
LEFT	RIGHT	
7	8	Area 3 KP Ambush
7	9	Area 3 KP Panic
7	0	Area 3 KP Fire
7	B	Area 3 KP Aux ‡
7	C	Area 3 KP Tamper
7	D	Area 3 Fail to Open
7	E	Area 3 Fail to Close
7	F	Area 4 KP Ambush
8	1	Area 4 KP Panic
8	2	Area 4 KP Fire
8	3	Area 4 KP Aux ‡
8	4	Area 4 KP Tamper
8	5	Area 4 Fail to Open
8	6	Area 4 Fail to Close
0	8	Test Timer
0	B	Memory Fail
0	C	Low Battery
0	D	AC Fail
0	E	EZM Tamper
0	F	Alarm Supervisory
B	5	RF Receiver Trouble (Tamper/Fail)
B	6	Wireless TX Tamper
B	7	Wireless TX Trouble (LB/Supervisory)
C	8	Area 1 Arming AWAY
C	9	Area 2 Arming AWAY
C	0	Area 3 Arming AWAY
C	B	Area 4 Arming AWAY
D	blank (•)	Keypad Fail
D	1	EZM Fail
D	2	Quickloader Device Control
D	5	General System Alarm
D	8	Area 1 General System Alarm
D	9	Area 2 General System Alarm
D	0	Area 3 General System Alarm
D	B	Area 4 General System Alarm
F	blank (•)	Relay Control Group 1
F	1	Relay Control Group 2
F	8	Entry Relay Area 1
F	9	Entry Relay Area 2
F	0	Entry Relay Area 3
F	B	Entry Relay Area 4

‡**NOTE:** Keypad Auxiliary is not to be selected for UL Installations.
NOTE: Keypad Tamper must be enabled in UL installations.

RF RECEIVER & SUPERVISORY TIMER OPTIONS (ADDRESS 2029-2044 & 2056)

Number of RF Receivers	ADDRESS 2056	
	LEFT DIGIT	RIGHT DIGIT
	blank (•)	

Default for Number of Receivers depends on Easy Menu Question for RF Transmitters.

DATA ENTRIES	RF RECEIVER(S)
blank (•)	None
1	1
2	2

RF RECEIVERS: Up to 2 RF Receivers may be programmed.

☞ 1. Select the number of receivers from the table shown.

☞ 2. Enter number in address location shown.

☞ 3. Press ENTER to save.

RF SUPERVISORY TIMERS: RF Supervisory Timers may be programmed for each type of transmitter used. A transmitter will send a transmission every time it is tripped, when there is NO activity, the transmitter sends a status transmission about once an hour. If the receiver does NOT receive ANY signal (a trip or a status) from a transmitter in the time specified for transmitter type, a system trouble "WIRELESS TROUBLE/E04-MM SERVICE" will be displayed at the keypad.

☞1. Select timer delay from the table shown. Timers are programmed in increments of 30 minutes each. Valid entries are [3] through [F] (90 minutes-450 minutes).

☞2. Enter in corresponding address locations below (right nibble).

☞3. Press ENTER to save.

RF SUPERVISORY TIMER	RF TRANSMITTER	ADDR	RF SUPERVISORY DELAY TIME (Select timer delay from the table at right)
Type 0	Window/Door, 2 Pt.	2029	
Type 1	Window/Door, 2 Pt.	2030	
Type 2	Window/Door, 2 Pt.	2031	
Type 3	Window/Door, 2 Pt.	2032	
Type 4	RESERVED		
Type 5	PIR	2034	
Type 6	PIR	2035	
Type 7	Smoke Detector	2036	
Type 8	Smoke Detector	2037	
Type 9	RESERVED		
Type A	Dual Tech.	2039	
Type B	RESERVED		
Type C	Window/Door, 4 Pt.	2041	
Type D	PIR	2042	
Type E	Smoke Detector	2043	
Type F	Napco Glass Break	2044	

RF SUPERVISORY TIMERS	
DATA ENTRIES	DELAY
3	90 min.
4	120 min.
5	150 min.
6	180 min.
7	210 min.
8	240 min.
9	270 min.
0	300 min.
B	330 min.
C	360 min.
D	390 min.
E	420 min.
F	450 min.

[Default = blank (•) from address 2029-2044]. Default = 8 (240 minutes)

NOTE: These timers apply only to Supervised RF Transmitters (see RF Transmitters in Easy Menu Driven Mode Pro-

CLEAR PROGRAM OPTIONS (ADDRESS 2285 & 2286)

2285 XX H

Clear Dealer Program (Erases Dealer Program)

This *erases the dealer program*. Use this feature to start a customized default program. Program Data and System Status Memory is erased where Scheduled Data and Zone Descriptions are maintained.

Access address 2285, then press [ENTER]. Data entry is not allowed.

NOTE: Enter Easy Menu Driven Program Mode to program system again.

2286 XX H

Cold Start (Erases Entire Program)

This erases the entire program including Dealer Program by erasing Program Data, Zone Description Data and System Status Data (similar to a new panel).

Access address 2286, then press [ENTER]. Data entry is not allowed.

NOTE: Some features (schedules) can only be programmed again with the Downloading Software. If power fails, time and date restarts at 00:00:00 and a date of 01-01-04 (January 1, 2004).

USER PROGRAM MODE

PRELIMINARY INFORMATION

The User Program Mode is covered in detail in the operating instructions for the keypad in use.

- ☞ The Program Mode cannot be accessed while the communicator is transmitting except during the first three minutes after power-up.
- ☞ After entering codes or data, press the save [ENTER] button. *Data will not be stored into memory unless this button is pressed.*
- ☞ If the keypad is in the Program Mode and no activity is detected for longer than 4 minutes, a steady tone will sound.
- ☞ Press the [RESET] button to silence the sounder and exit the User Program Mode.

ACCESSING USER PROGRAM MODE

1. Press [ ] [ ] [ ] [ ] [ ] [ ] [MENU]

New Panel (Default User Code = 123)
Existing Panel (Any Code with User Program Option Enabled)

2. Press [AWAY] **Until "ACTIVATE PROGRAM Y/N" appears on LCD screen.**

3. Press [STAY] **To Enter User Program Mode**

4. Press [RESET] **To Exit User Program Mode when finished**

USER CODES

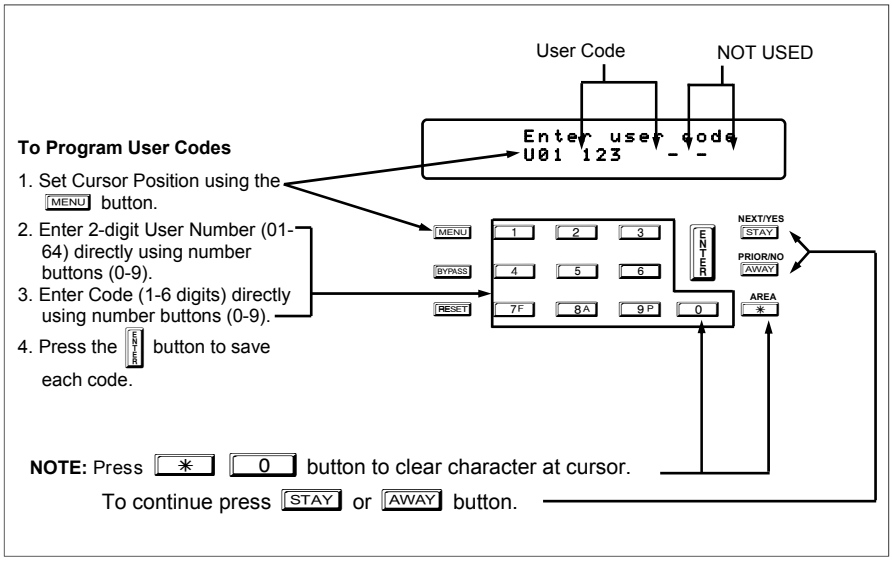
```
Enter user code
U01 123   - 9-
```

Keypad (Direct Entry)

Up to 64 User Codes may be programmed.
NOTE: In this mode, only the code is programmable; the accompanying Area Options must be programmed in the Dealer Program Mode (see page 5).

☞ Use the [MENU] button to place the cursor over the User Number.

☞ Enter a User Number (01–8) using the number buttons. The cursor will then advance to the User Code and read the existing code, if any.



Programming User Codes with a Keypad

☞ Enter the new User Code using the number buttons (0-9). If an old code is displayed, program over it. To erase the digit at the cursor, press [*] [0] button.

☞ Press the [ENTER] button to save the code in memory.

☞ Repeat this procedure for each user. To proceed to Zone-Description programming, press the NEXT/YES button or the PRIOR/NO button.

ZONE DESCRIPTIONS (USING A KEYPAD)

```
01-
```

Enter an identifying description for each zone. Characters are selected by pressing keypad buttons multiple times, "Cell Phone" style. Buttons [1] through [9 P] plus [0] and [*] are used, as per the following table:

PRESS:	CHARACTERS DISPLAYED IN SEQUENCE	HOLD [*] AND PRESS:	CHARACTERS DISPLAYED IN SEQUENCE
[1]	ABC1	[1]	abc1
[2]	DEF2	[2]	def2
[3]	GHI3	[3]	ghi3
[4]	JKL4	[4]	jkl4
[5]	MNO5	[5]	mno5
[6]	PQR6	[6]	pqr6
[7F]	STU7	[7F]	stu7
[8A]	VWX8	[8A]	vwx8
[9P]	YZ90	[9P]	yz90
[0]	(SPACE) • - . ( ) , / : ? #	[0]	(Reserved)

Press [MENU] to move cursor right.
Press [BYPASS] to move cursor left.

Notes:

1. After releasing the number button for 2 seconds, the character will be accepted and the cursor advanced to the right.
2. After releasing the number button, if a new number button is pressed before the 2 second window expires, the current character will be accepted and the cursor automatically advanced to the right. The first of the 4 characters of this new number button will be displayed.
3. To erase an existing entry, use [MENU] or [BYPASS] to move the cursor below the character to be changed. Enter a new character to overwrite the old, or press zero to delete the character.
4. To generate lowercase characters, the [*] button must be pressed and held down while pressing the number button. If the [*] button is released during the 2 second window, the current character will change to uppercase. Press [ENTER] to save.

To advance to the next zone (or to any other zone), move the cursor to the displayed zone number (i.e., “01”) using [MENU] and [BYPASS]. Change the zone number using keys [0] through [9 P]. Enter two digits for the zone number (after entering the first digit, the cursor will automatically advance to the second digit). When the second zone number digit is entered, the cursor will automatically advance to the right, allowing the description locations to be entered. Always press [ENTER] to save each zone description.

```
Enter Date
     (  /  /  )
```

(Direct Entry)

Enter Date *(Press the [MENU] button to set cursor.)*
Enter the current date in the format MM/DD/YY, where MM = the month (01–12); DD=the day (01–31); and YY=the year. Press [ENTER] to save. Press NEXT button to proceed.

```
Enter Time
     (  :   )
```

(Direct Entry)

Enter Time *(Press the [MENU] button to set cursor.)*
Enter the current time in the format HH:MMA/P, where HH=hours (01–12); MM=minutes (00–59). Select AM or PM by pressing any number button, then press [ENTER] once again to save.

NOTE: To enter the date and time, “Enable Keypad Time/Date Display” (Address 1420) must be enabled.

KEYPAD CONFIGURATION MODE

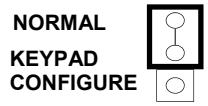
This section will focus on configuring the GEM-K1VPS and GEM-DK1CA keypads.

KEYPAD INSTALLATION

Each keypad must be assigned an address number (1–7) and each requires its own configuration procedure (see **CONFIGURING THE KEYPADS**, which follows). At least 1 keypad must be used; only 1 is required for a single-area Commercial Burglary installation.

CONFIGURING THE KEYPADS

A total of up to 7 keypads may be connected to the panel. Each keypad must be configured for (a) keypad tactile beep; (b) entry sounder; (c) keypad address; (d) compatibility number; (e) EZM address; and (f) zone response.



To enter the Keypad Configuration Mode:

1. Move jumper JP1 (located in the center of the control panel board) from Pins 1-2 (top two) to Pins 2-3 (bottom two). **NOTE:** See Wiring Diagram at the end of this manual.
2. After about 15 seconds, the display will read "XX OUT OF SYSTEM", where XX indicates the keypad address.
3. Press [1] [1] [1] [2] [3] [MENU] and proceed as follows. (Repeat the following procedure for all keypads).

Keypad Tactile Beep

Upon entering the Keypad Configuration Mode, "KEYPAD BEEP ON" will be displayed, indicating that the tactile beep, which sounds when any button is pressed, is on. To turn off the tactile beep, press the [ENTER] button (the [ENTER] button will toggle the tactile beep on and off). Press [MENU] to continue or press [RESET] to exit.

Entry Sounder

To turn off the keypad entry sounder during entry time, press [ENTER] (the [ENTER] button will toggle the entry sounder on and off). Press [MENU] to continue or press [RESET] to exit.

Keypad Address

If more than one keypad is installed, each must be assigned a unique keypad address (that is, no two keypads may be numbered alike):

☞Keypads must be numbered consecutively (missing numbers are not permitted)

To assign the keypad number, proceed as follows:

1. Enter the assigned keypad number 01–07, then press [ENTER] to save. A valid number will be acknowledged by a short beep; an invalid number will be rejected by a long beep.
2. Press [MENU] to continue or press [RESET] to exit.

New Compat # 0000

Compatibility Number (Not Applicable)

THIS FEATURE IS **NOT** COMPATIBLE WITH THE GEM-P1664 CONTROL PANEL. **DO NOT CHANGE THIS SETTING.**

Press the MENU button to continue or press the RESET button to exit.

EZM Address 01

EZM Address

The keypad's internal EZM (Expansion Zone Module) may be utilized to provide four additional wired zones. Whether used alone or in conjunction with optional GEM-EZM series modules or other keypad EZMs, it must be assigned a unique address (or Group number, see Keypad Programming Workbook) similar to its keypad address. If no other EZMs are to be used, designate the keypad as Group "01" at the "EZM ADDRESS 00" display. In multiple-EZM systems, enter an assigned group number "01" through "14". (Each EZM must have a unique assigned group number, starting with "01" and proceeding consecutively.) Press the MENU button to continue or press the RESET button to exit.

Zone Response 00

Zone Response

The normal loop response of each keypad expansion zone is 750mS, however the response time of any zone can be reduced to 50mS as follows.

1. Of the following, circle the number(s) in parentheses associated with the zone(s) to be changed: Zone 1=(1); Zone 2=(2); Zone 3=(4); Zone 4=(8)
2. Add up the circled numbers.
3. At the keypad, enter the sum as a two-digit number "01" through "15" on the display, then press ENTER.

Example. Change Zones 2, 3 and 4 to 50mS response.

1. Circle numbers for Zones 2, 3 and 4: (2), (4) and (8).
2. Add up the circled numbers: 2 + 4 + 8 = 14.
3. Enter "14" at the keypad, then press the ENTER button.

Press the MENU button to continue or press the RESET button to exit.

Program Control Message # ?

Program Control Message (Not Applicable)

THIS FEATURE IS NOT COMPATIBLE WITH THE GEM-P1664 CONTROL PANEL. **DO NOT CHANGE THIS SETTING.**

Press the MENU button to continue (the display will loop back through selections, for changes) or press the RESET button to exit the Keypad Configuration Mode (display will read "01 OUT OF SYSTEM"). Then replace Jumper JP1 across Pins 1–2 (top two).

EASY MENU PROGRAMMING WORKSHEET - 1 OF 4

Name:	Address:
Account Number:	Installer:

Area 1: # of Zones (1-64) = ☐☐ ***Zone Doubling?:*** Yes ☐ No ☐ ***Area 1:*** # of Keypads (1-7) = ☐

NOTE: Area 2-4 Zones and Keypads are selected in Direct Address Mode. See Zone Options and Keypad Options.

Enter Fire Zones (1-64): _____ ***2-Wire Fire Zones?:*** Zone 7 Yes ☐ No ☐ Zone 8 Yes ☐ No ☐

Enter Entry/Exit Zones (1-64): _____ ***Enter Interior Zones (1-64): _____***

Report all Zones to Central?: Yes ☐ No ☐

Central Station Receiver 1 Telephone Number: ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Central Station Receiver 1 Account Number: ☐☐☐☐

Central Station Receiver 1 Format:

- ☐ **blank (•) = Ademco Slow, Silent Knight Slow**
- ☐ **2 = Radionics Fast**
- ☐ **3 = Silent Knight Fast**
- ☐ **4 = Radionics, DCI, Franklin Slow**
- ☐ **5 = Universal High Speed**
- ☐ **B = SIA**
- ☐ **C = Ademco Point ID**
- ☐ **E = Pager**

User Codes:

USER #	CODE (up to 6 digits)	AREA 1 OPTIONS	AREA 2 OPTIONS	AREA 3 OPTIONS	AREA 4 OPTIONS
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

USER #	CODE (up to 6 digits)	AREA 1 OPTIONS	AREA 2 OPTIONS	AREA 3 OPTIONS	AREA 4 OPTIONS
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

USER #	CODE (up to 6 digits)	AREA 1 OPTIONS	AREA 2 OPTIONS	AREA 3 OPTIONS	AREA 4 OPTIONS
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					

USER #	CODE (up to 6 digits)	AREA 1 OPTIONS	AREA 2 OPTIONS	AREA 3 OPTIONS	AREA 4 OPTIONS
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					

EASY MENU PROGRAMMING WORKSHEET - 2 OF 4

RF Transmitter Points:

XMTR #	ZONE #	RF ID (printed on xmtr box)	CHECK SUM	POINT #
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

XMTR #	ZONE #	RF ID (printed on xmtr box)	CHECK SUM	POINT #
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				

XMTR #	ZONE #	RF ID (printed on xmtr box)	CHECK SUM	POINT #
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				

XMTR #	ZONE #	RF ID (printed on xmtr box)	CHECK SUM	POINT #
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				

Key Fob Transmitters:

KEY FOB #	Area	RF ID (printed on xmtr box)	CHECK SUM	OPTION 1	OPTION 2
1					
2					
3					
4					
5					
6					
7					
8					

EASY MENU PROGRAMMING WORKSHEET - 3 OF 4

Zone Descriptions 1-32

ZN #	CHARACTERS AVAILABLE (See below)																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
1																													
2																													
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26																													
27																													
28																													
29																													
30																													
31																													
32																													

Characters Available for Zone Descriptions

! @ # $ % ^ & * ( ) _ + ! ¦ | { } [ ] ` , . < > ?
1 2 3 4 5 6 7 8 9 0
a b c e d f g h i j k l m n o p q r s t u v w x y z
A B C D E F G H I J K L M N O P Q R S T U V W X Y

Dealer Code: ☐☐☐☐☐☐

For Zones 33-64, see next page

EASY MENU PROGRAMMING WORKSHEET - 4 OF 4

Zone Descriptions 33-64

ZN #	CHARACTERS AVAILABLE (See below)																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
33																													
34																													
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63																													
64																													

Characters Available for Zone Descriptions

! @ # $ % ^ & * ( ) _ + ! ¦ | { } [ ] ` , . < > ?
1 2 3 4 5 6 7 8 9 0
a b c e d f g h i j k l m n o p q r s t u v w x y z
A B C D E F G H I J K L M N O P Q R S T U V W X Y

For Zones 1-32, see previous page

Dealer Code: ☐☐☐☐☐☐

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ALARM RESTORE 1 (ZONE OPTION), ADDRESS 1310, 1374 32
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ALARM RESTORE 3 (ZONE OPTION), ADDRESS 1058, 1122 30
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ALARM RESTORE 3 (ZONE OPTION), ADDRESS 1314, 1378 32
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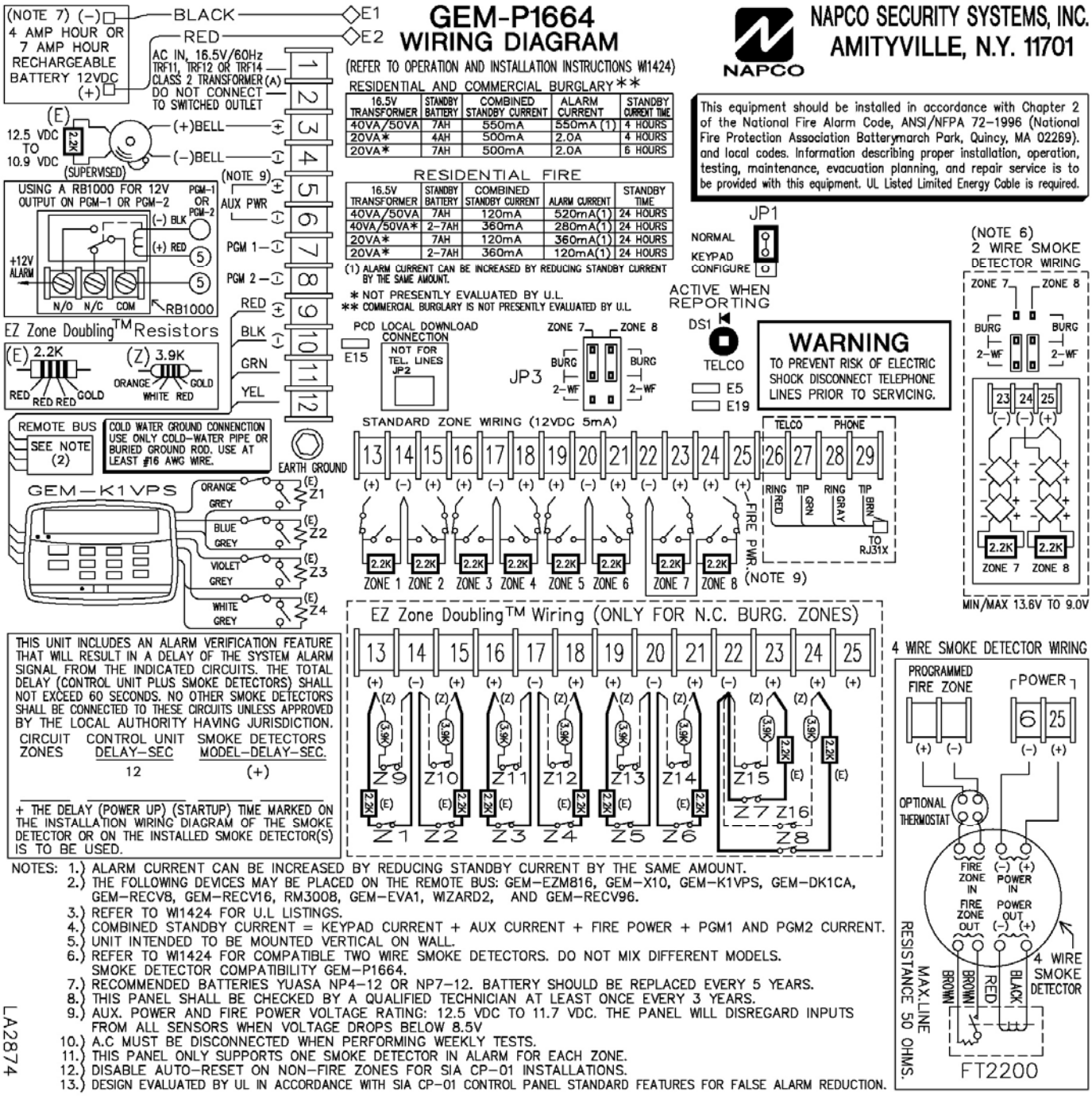
GEM-P1664 WIRING DIAGRAM



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