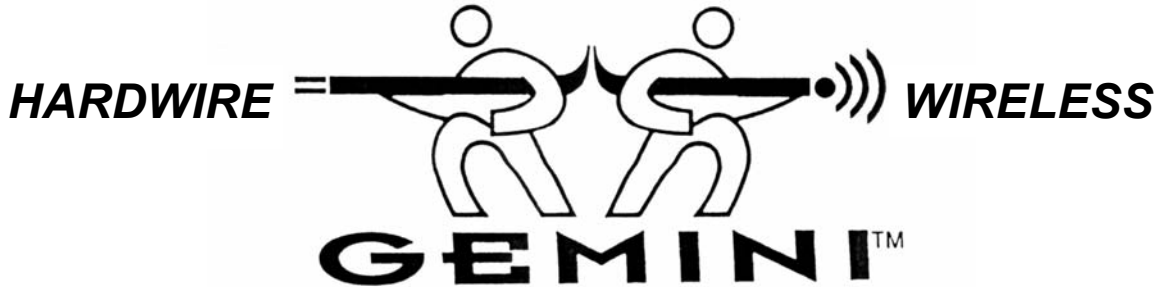


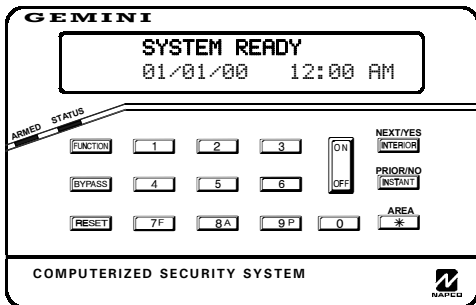


PROGRAMMING INSTRUCTIONS

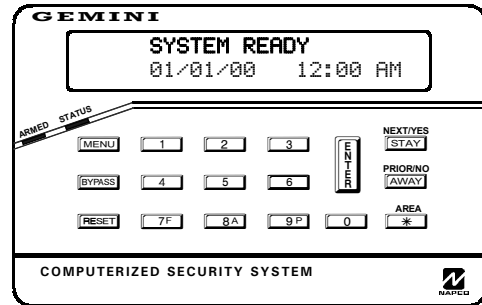


GEM-P816 CONTROL PANEL/COMMUNICATOR

Programming the GEM-P816 Control Panel with the "Classic" GEM-RP1CAe2 Keypad and the "K Series" GEM-K1CA Keypad



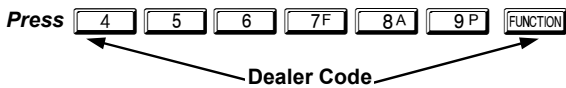
"Classic" GEM-RP1CAe2



"K Series" GEM-K1CA

Quick Start (for "Classic" GEM-RP1CAe2)

1. Refer to the wiring diagram, connect Siren, Aux. Power, PGM Output, Remote Bus, Earth ground, Zone and Telephone wiring. NOTE: See Installation Instructions (WI994).
2. Connect AC power first and then the battery.
3. Configure the keypad (see page 34).
4. Access the Easy Menu Driven (Dealer Program) Mode:

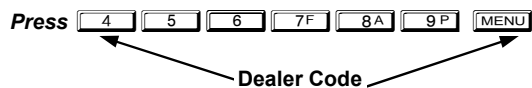


Press NO (**INSTANT**) until "ACTIVATE PROGRAM Y/N" appears on the keypad display.

Press YES (**INTERIOR**) to Enter Dealer Program Mode. Go to page 5.

Quick Start (for "K-Series" GEM-K1CA)

1. Refer to the wiring diagram, connect Siren, Aux. Power, PGM Output, Remote Bus, Earth ground, Zone and Telephone wiring. NOTE: See Installation Instructions (WI994).
2. Connect AC power first and then the battery.
3. Configure the keypad (see page 34).
4. Access the Easy Menu Driven (Dealer Program) Mode:



Press NO (**AWAY**) until "ACTIVATE PROGRAM Y/N" appears on the keypad display.

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







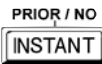
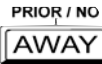
THIS MANUAL INCLUDES FEATURES WHICH ARE ONLY AVAILABLE IN CONTROL PANEL FIRMWARE VERSION 10 OR LATER.

IMPORTANT NOTE

This manual supports the keypad programming of the GEM-P816 control panel with the NAPCO "classic" GEM-RP1CAe2 keypad as well as the GEM-K1CA "K Series" keypad. The new "K Series" GEM-K1CA model offers the new STAY and AWAY buttons with simplified functionality, along with the new MENU and ENTER buttons.

While the instructions in this manual are depicted using the GEM-K1CA keypad, the manual applies to both the "classic" and the "K Series" keypads.

Program Mode is the same for both keypads--**only the button names have changed**, as follows:

- The  button and the  button operate identically (in Program Mode) for both keypads.
- The  button and the  button operate identically (in Program Mode) for both keypads.
- The  button and the  button operate identically (in Program Mode) for both keypads. The words "NEXT/YES button" are used in this manual.
- The  button and the  button operate identically (in Program Mode) for both keypads. The words "PRIOR/NO button" are used in this manual.

CHANGES FROM PREVIOUS EDITION

The following changes have been made to this manual (WI995C) since the previous edition (WI995B):

- Removed the following entries from the index: Change Pulse Output to Cadence, Enable Chirp on RF Arming, Enable Transmitter Telco 1, Enable Transmitter Telco 3, Select Bell Output on RF Arming.
- Page 4, top, "Downloading From a Computer", the following sentence was added: "Unattended downloading from a computer is not allowed for Fire Alarm or UL installations."
- Pages 4, 5, and 7, the "50mS Loop Response Zones" entries now contain the following notation: "**Note:** 750mS is required for Loop Response time in UL installations."
- Page 7, the "Auto Bypass Re-entry Zones" entry was modified: "Not Evaluated by UL" notation was added.
- Page 8, the "Enter User Codes" entry was modified, and now states to "enter a code from 3 to 6 digits."
- In the Area Options/Explanation chart at the top of page 9, the following information was added: "Ambush: Allows user code to send Ambush signal to Central Station".
- Top of page 16, under the heading, "Output Timeouts", the following reference was added: "Not UL listed for Commercial Installations".
- Page 18, Address 0720, bit 7 (Change Pulse Output to Temporal Output) was modified with the following notation: "This feature must be programmed in Fire Alarm applications."
- Page 18--All references to 0720-Bit 6--"Enable PGM2 Chirp on Keyfob Arming" name changed to "Chirp Output on Keyfob Arm/Disarm".
- Page 18--All references to 0722-Bit 0--"Automatic Interior Bypass" name changed to "Automatic Interior Bypass/Easy Exit".
- Page 18--All references to 0721-Bit 7--"Enable Bell Output on Keyfob Arming" name changed to "Select Alarm Output for Keyfob Chirp".



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Refer to accompanying GEM-P816 Installation Instructions (WI994) for installation information.




SYSTEM PROGRAMMING OPTIONS

INTRODUCTION

The GEM-P816 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-RP1CAe2/GEM-K1CA (version 8 keypad), the recommended keypad for programming. For Programming Instructions with the GEM-RP2ASe2/GEM-K2AS, GEM-RP3DGTL/GEM-K3DGTL and the GEM-RP4RFC/GEM-K4RF series, see WI1182.

✓ **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 PCD3000 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, 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  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  or  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 PCD3000 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

-  Only Keypad #1 may be used for both Dealer and User programming, however this keypad may be located in any area.
-  The Default Dealer Code is      . 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  button. Data will not be stored into memory unless  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  button to exit.
-  A panel that has been COLD STARTED (Address Location 1198) performs identically to a new panel.
-  When programming a Multiple Area System, Direct Address Programming Mode must be used to complete the program.

KEYPAD #1: KEYPAD #1: For ease of programming, it is recommended that a GEM-RP1CAe2 or GEM-K1CA be used as Keypad #1. (Regardless of which keypad is selected, all *new* keypads are configured as Keypad #1 out of the box). If a GEM-RP2ASe2/GEM-K2AS is used, see WI1182.



ACCESSING DEALER PROGRAM MODE

1. Press       

↙ Dealer Code (Default = 456789) ↘

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   **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
- 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
- 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 Method
- Key Fob Transmitters
- Enter Zone Descriptions
- Enter Date
- Enter Time
- Dealer Code
- Enable Telco Line Fault Test
- Enable Burg Output Chirp on Keyfob
- Enable Keypad Time/Date Display
- Enable CP-01 Programming
- Clear Dealer Program
- Cold Start

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  button to enter the Direct Address Program Mode; (b) access Location 1197 (Clear Program); (c) press the  button and start over.



GEM-RP1CAe2/GEM-K1CA Keypad Easy Program Menu

To create a custom program using the GEM-RP1CAe2/GEM-K1CA 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, **SAVE** 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 32. 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 18, it will automatically convert this to 20 zones. Press **SAVE** to save. Press the NEXT/YES button to proceed.

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 32.
- Directly enter each zone number, including leading zeros, and press **SAVE** 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 **SAVE** to save, and repeat for any additional zone(s); press NEXT 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 32. Directly enter each zone number, including leading zeros.
 - Press **SAVE** 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 32. Directly enter each zone number, including leading zeros.
- Press **SAVE** 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 32. Directly enter each zone number, including leading zeros.
 - Press **SAVE** 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 32. Directly enter each zone number, including leading zeros.
- Press  to save and 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 32. Directly enter each zone number, including leading zeros.
- Press  to save and 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 32. Directly enter each zone number, including leading zeros.
- Press  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  to save and 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 (hardware).

```
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 32. Directly enter each zone number, including leading zeros.
- Press  to save and 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 32. Directly enter each zone number, including leading zeros.
- Press  to save and 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 32. Directly enter each zone number, including leading zeros.
- Press  to save and 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 32. Directly enter each zone number, including leading zeros.
- Press  to save and 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 SIA CP-01? Y/N

(Press YES or NO)

Area 1 Keypads
Enter # KPs 01

(Direct Entry)

Central Phone #

(Direct Entry)

Central Station Account # (____)

(Direct Entry)

See WI for Info Rcvr Format (0)

(Direct Entry)

Enter user code
U01 123 - 9-

User# User Code Area 1 Area 2

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 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.

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 to save. Press the NEXT/YES button to proceed.

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

Central Station Receiver 1 Telephone Number

- Enter telephone number of up to 16 digits.
- Press through for digits 1–9; for a zero and for a blank (*).
- Press through for letters B–F, respectively.
- Pre-Dial Delay = “D” (); Dial-Tone Detection = “E” ().
- Press 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 Receiver 1 Account Number

- Enter an account number of up to four digits.
- Press through for digits 0–9, and for a blank (*).
- Press 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.

Central Station Receiver 1 Format

- From the table at the right enter the receiver format.
- Press through , and for blank (*).
- Press through for letters B–E.
- Press to save and 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 Codes (Press to set cursor.)

For default program, enter up to 32 User Codes, with Area 1 and Area 2 Options.

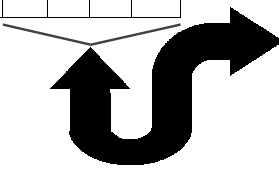
- Press the () button once to set the cursor to the User Code.
- Press through to enter a code from 3 to 6 digits, leave blank (*) any trailing boxes.
- Press to set the cursor to the Area 1 Options Level. Refer to the table below for available options. For Area 2 Options, press the () button once again.

• If “Enable Global Ambush Code” (Address 0720) is enabled and “Global Ambush Code” (Address 1054) is **not** left blank (*), *do not* program the first two digits of ANY User Code the same as the “Global Ambush Code”.

• Press to save. **Note:** Duplicate User Codes are not allowed; therefore a duplicate Code entered in the LCD Window will erase when is pressed. To proceed to the next User Code, press () 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		



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




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 GEM-RP2ASe2 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,
Ambush	Allows user code to send Ambush signal to Central Station.
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 for Keypad 1 only, wherever it is connected (Area 1 or Area 2). 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 only at Keypad 1 by a user code with user program enabled.


Related User Options: "Enable Global Ambush Code" (Address 0720), "Global Ambush Code" (Address 1054) & "Enable Managers Mode" (Address 0719).

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













ZN#	XMIT#+CS	P
Zn01-	000000:	0-0
Zone # Mapped to	Xmitter ID	Check Sum
		Point #

RF Transmitter Points (Press  to set cursor.)

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

- The **zone number** (01–32) 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  to save and NEXT/YES button to proceed when all transmitters have been entered.


NOTE: When programming the ID Code number, "0" through "9" =  through  ; A =

  ; B =   ;
C =   ; D =   ; E =   and "F" =  .

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

Quick 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.

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

1. Enter the zone number to which the transmitter point will be mapped.
2. Press  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  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 or 2).
- 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  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" =  through  ; A =   ; B =   ;
C =   ; D =   ; E =   and "F" =  .

EASY MENU DRIVEN PROGRAM MODE

Key Fob Transmitters as Zone Input Devices

(Refer to display above: press the PRIOR 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 32 key fobs (using 1 button) or 16 key fobs (using 2 buttons) or 8 key fobs (using all 4 buttons) or any combination up to a maximum of 32 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 Output Toggle
D	Access on PGM2 Output
E	Arm STAY
F	Interior Button

Enter Zone Descriptions

01-

(Direct Entry)

- Press **1** and **2** to place the cursor and; press **3** and **6** to select the character.
- For each zone, enter a description of up to two lines.
- Press **ENTER** to save each description.

- To proceed to the next description, place the cursor under the Zone Number (e.g. "01") and change the Zone Number using **3** and **6**. Program new description as above.
- **NOTE:** Zone Descriptions can only be entered through the GEM-RP1CAe2 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 **9P** buttons.
- Press **ENTER** to save.

DEALER CODE
RE-ENTER

- Re-enter the Dealer Code to verify the previous code.
- Press **ENTER** to save.
- Press the NEXT/YES button to proceed.

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 1197 (Clear Program) or 1198 (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.

1197 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 1197 and press **ENTER**. Data entry is not allowed. **NOTE:** Enter Easy Menu Driven Program Mode to reprogram system.

1198 XX H

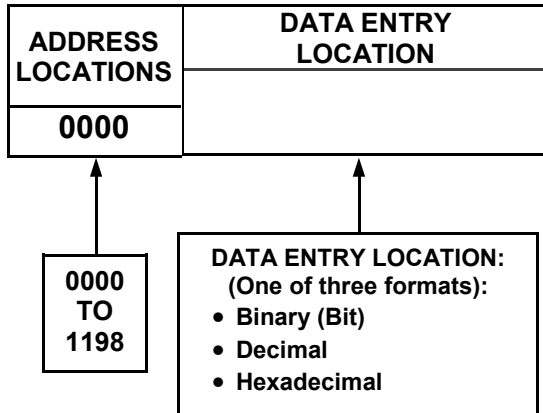
Cold Start (Erases Entire Program)

This erases all programmed data (Dealer Program, Zone Description Data and Schedules). Access address 1198 and press **ENTER**. Data entry is not allowed. **NOTE:** Some features (schedules) can only be programmed again with the Downloading Software.

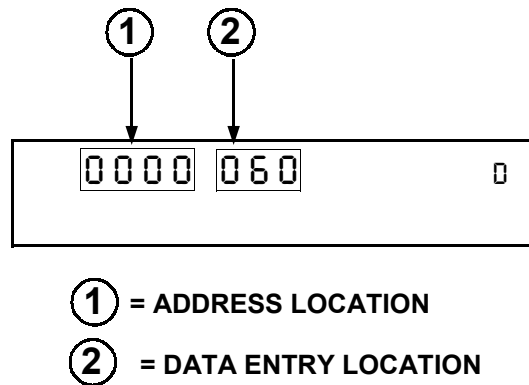
DIRECT ADDRESS PROGRAM MODE

DIRECT ADDRESS OVERVIEW

Direct Address Programming allows you to go directly to the address locations (up to 1198) 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 1198 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 GEM-RP1CAe2 keypad).



GEM-RP1CAe2 Keypad Display Example



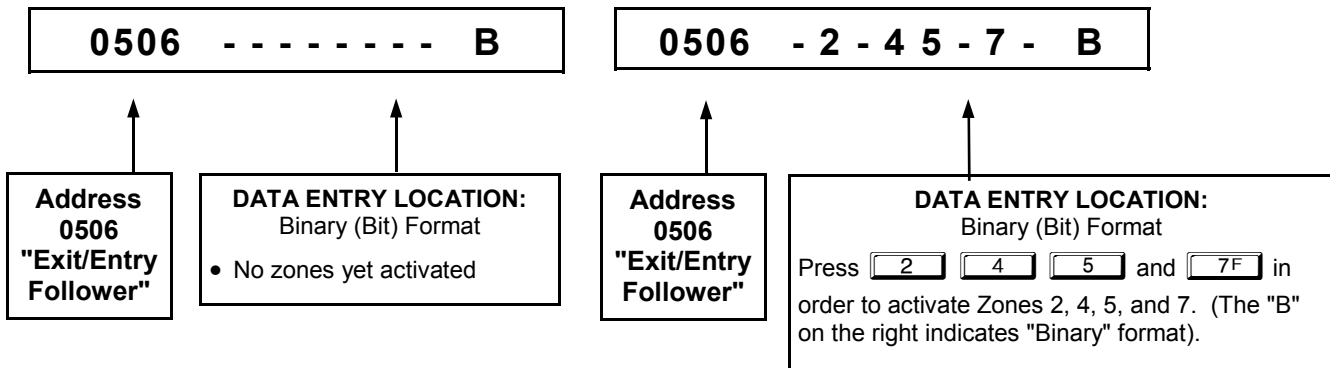
ADDRESS MODE DISPLAYS

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

A) Binary (Bit) Format

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 GEM-RP1CAe2: Program Zones 2, 4, 5 and 7 as *Exit/Entry Follower* Zones.



DETERMINE THE DATA ENTRIES

- Referring to ZONE FEATURES in the Programming Worksheets that follow, the Exit/Entry Follower for Zones 1 through 8 are located at address 0506.

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	0506						6	7	8	0561								

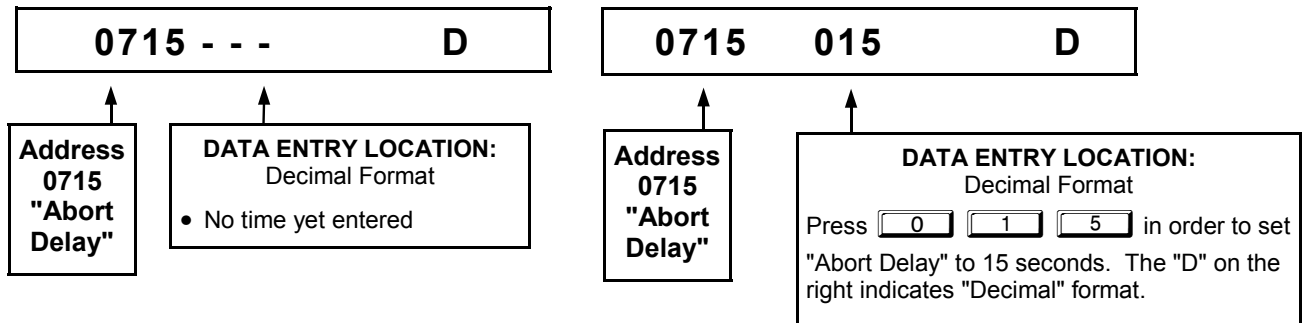
PROGRAM THE DATA ENTRIES

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]** **[5]** **[0]** **[6]** to access Address 0506. *The existing data will display and the cursor will advance to the data field.*
5. Press **[6]** **[7F]** **[8A]**. The numbers 6,7 and 8 will appear on the keypad display indicating the zones activated.
6. Press **[ENTER]** to save. Address 0506 is now programmed with "6,7,8".
7. Enter another 4-digit address to continue programming or press **[RESET]** to exit and resume normal keypad operation.

B) Decimal Format

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 GEM-RP1CAe2: 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 0715:


ABORT DELAY (sec.)	ADDRESS 0715		

[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 **[0]** **[7F]** **[1]** **[5]** to access Address 0715. *The existing data will display and the cursor will*

advance to the data field.

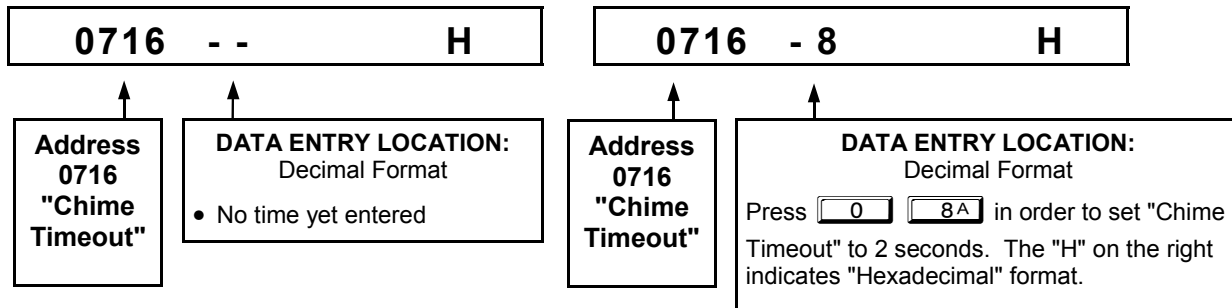
5. Press . The numbers 015 will appear on the keypad display indicating the number of seconds entered.
6. Press  to save. Address 0715 is now programmed with a 15-second Abort Delay.
7. Enter another 4-digit address to continue programming or press to exit and resume normal keypad operation.

C) Hexadecimal Format

Data such as Report Codes displays and accepts data by means of a Hexadecimal display. Data is entered directly, by pressing keys 1 – 9, for zero, and through 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	<input type="text" value="0"/>	•	8	<input type="text" value="8A"/>	8
1	<input type="text" value="1"/>	1	9	<input type="text" value="9P"/>	9
2	<input type="text" value="2"/>	2	10	<input type="text" value="*"/> <input type="text" value="0"/>	0
3	<input type="text" value="3"/>	3	11	<input type="text" value="*"/> <input type="text" value="1"/>	B
4	<input type="text" value="4"/>	4	12	<input type="text" value="*"/> <input type="text" value="2"/>	C
5	<input type="text" value="5"/>	5	13	<input type="text" value="*"/> <input type="text" value="3"/>	D
6	<input type="text" value="6"/>	6	14	<input type="text" value="*"/> <input type="text" value="4"/>	E
7	<input type="text" value="7F"/>	7	15	<input type="text" value="*"/> <input type="text" value="5"/>	F

EXAMPLE: HEXADECIMAL Format with the GEM-RP1CAe2: 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 0716. In the "Chime Timeout Options" table, the data entries needed to assign a timeout of 2 seconds are "blank" and "8".

CHIME TIMEOUT (1/4sec.)	ADDRESS 0716

[Default = 2 1/4sec. = 1/2 sec.]

CHIME TIMEOUT OPTIONS		
DATA ENTRIES		TIMEOUT
LEFT	RIGHT	
blank (*)	blank (*)	0 x 1/4sec. = 0 sec.
blank (*)	2	2 x 1/4sec. = 1/2 sec.
blank (*)	3	3 x 1/4sec. = 3/4 sec.
blank (*)	4	4 x 1/4sec. = 1 sec.
blank (*)	5	5 x 1/4sec. = 1.25 sec.
blank (*)	6	6 x 1/4sec. = 1.5 sec.
blank (*)	7	7 x 1/4sec. = 1.75 sec.
blank (*)	8	8 x 1/4sec. = 2 sec.
F	F	255 x 1/4sec. = 63.25

← 2 seconds

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]** **[7F]** **[1]** **[6]** to access Address 0716. *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]** **[8A]**. The numbers 08 will appear on the keypad display indicating the number of seconds entered.
6. Press **[SAVE]** to save. Address 0715 is now programmed with a 2-second chime.
7. 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, along with the feature name and programming information. The cursor will advance to the data field. Enter the required data directly using the number buttons.
- IMPORTANT:** Press **[SAVE]** or **[ON]** 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 TO 0002, 0711, 0715 & 1059)

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 0711		

[Default = 0 sec. = blank (*)]

ABORT DELAY (sec.)	ADDRESS 0715		

[Default = 030]

 Select delay/timeout (0-255 sec.) from the table shown.

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 table, except in hours.

 Press  or  to save.


Sensor Watch Time (Hrs.)	ADDRESS 1059		

[Default = 024]

Maximum Program Time		
Address	Units	Max Prog Time
1179	VERSION 10 - MIN VERSION 9A - SEC	VERSION 10 - 254 MIN VERSION 9A - 254 SEC

Report Cancel Window (min.)	ADDRESS 1179		

[Default = 0 sec. = blank (*)]
See **Maximum Program Time** table (at left)

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

SYSTEM DELAYS & TIMEOUTS (ADDRESS 0716 & 0717)


CHIME TIMEOUT (¼sec.)	ADDRESS 0716		

[Default = 008 x ¼ sec. = 2 sec.]

AC Fail Report Delay (min.)	ADDRESS 0717		

[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 0716 are in quarter seconds (.25 seconds). Therefore, the default of 008 results in a 2 second timeout.

 2. Press  or  to save.

SYSTEM OUTPUT TIMEOUTS (ADDRESS 0710, 0712, 0713 & 0714)

PGM2 Output	ADDRESS 0710		
Timeout (min.)			

[Default = 0 min. = blank (*)]

Alarm Output	ADDRESS 0712		
Timeout (min.)			

[Default = 015]

Pulse Alarm Output	ADDRESS 0713		
Timeout (min.)			

[Default = 015]

PGM1 Output	ADDRESS 0714		
Timeout (min.)			

[Default = 0 min. = blank (*)]

DATA ENTRIES	DELAY/TIMEOUT
blank (*)	0 min.
1	1 min.
2	2 min.
3	3 min.
4	4 min.
5	5 min.
6	6 min.
16	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 or 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 1183 & 0236-0255)

No. Rings Before Pickup	ADDRESS 1183		
Timeout (min.)			

[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: 03-15. **NOTE:** Default is 15 Rings.
3. Press or to save.

Callback Telephone	ADDRESS 0236-0255 (RIGHT DIGITS 1-20)																				
(Digits 1-20)	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255	
(Digits 1-20)																					

[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.
2. Enter up to 20 digits from left to right. **NOTE:** Leave trailing boxes blank (*).
3. Valid entries are: 1-9, B = , C = , D = 3 sec. pause, E = Wait for dial tone, F = ignore location.
4. Press or to save.

PAGER FORMAT OPTIONS (ADDRESS 0256 & 0257)

Leading Digits for Pager Format (1st Digit)	ADDRESS 0256
(1st Digit)	
Leading Digits for Pager Format (2nd Digit)	ADDRESS 0257
(2nd Digit)	

[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.
2. Valid entries are: 0-9. Press or to save.

SYSTEM OPTIONS (ADDRESS 0460-0485 & 1054)

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	0460								
Pulsed Alarm Output	0461								
PGM1 Output	0462								
PGM2 Output	0463								
Report Event Telco 1	0464								
Report Restore Telco 1	0465								
Report Event Telco 3	0468								
Report Restore Telco 3	0469								


[Default = blank (*) from address 0460-0469]. **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	0470								
Alarm Output	0471								
PGM1 Output	0472								
PGM2 Output	0474								
Report Event Telco 1	0475								
Report Event Telco 3	0477								




[Default = blank (*) from address 0470-0477] * 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	0478								
Alarm Output	0479								
PGM1 Output	0480								
PGM2 Output	0482								
Report Event Telco 1	0483								
Report Event Telco 3	0485								

[Default = blank (*) blank (*) from address 0478-0485] * 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  or  to save.

Global Ambush Code	ADDRESS 1054	
	1st digit	2nd digit

[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 0720) is selected and Address 1054 is left blank (*), then the 2-digit Global Ambush Code is "99". If "Enable Global Ambush Code" is selected and Address 1054 is **not** left blank (*), then the 2-digit Global Ambush Code is the two digits entered in address 1054.

 Enter in address location (both 1st and 2nd digits); valid entries are 1-9. 3. Press  or  to save.

SYSTEM OPTIONS (ADDRESS 0718-0722, 1060-1062)

0718 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 Time/Date KP Display
OFF	8	Disable Zone Fault Scrolling

0720 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 [§]

[§]This feature must be programmed in Fire Alarm applications.

0722 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
OFF	8	RESERVED

0719 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	Enable Manager's Mode
OFF	8	Disable Keypad Instant Mode

0721 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 Keypad Chirp

† NOTE: Not for UL Installations.

1060 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	RESERVED

1061 Lug E15 Output Mode	
DATA ENTRIES	OPTION
blank (*)	Armed
4	Armed Area 1 Away

ADDRESS 1061: LUG E15 OUTPUT MODE

Select the options available from the table above.

1. Enter digit only.

2. Valid entries are "blank (*)" or "4". Press or to save.

NOTE: Address 0721: Default depends on Easy Menu Question "EZ ZONE DOUBLING? Y/N". If yes, then [Default = 1]. If no, then [Default = blank ()].

**NOTE: To select "Line-Fault Test only when Armed", you must also select "Enable Line-Fault Test" at address 0721.

*** NOTE: If "Enable Global Ambush Code" in Address 0720 is selected, then program the 2-digit "Global Ambush Code" in Address 1054. If Address 1054 is left blank (*), then, the 2-digit "Global Ambush Code" will be "99".

1062 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	RESERVED
OFF	8	RESERVED

CS RECEIVER OPTIONS (ADDRESS 0170-0191, 0192-0213, 0214-0235)

CS Receiver 1	ADDRESS 0170	
Format		

CS Receiver 2	ADDRESS 0192	
Format		

CS Receiver 3	ADDRESS 0214	
Format		

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 *

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

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] or [ON/OFF] to save.

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

0171	CS Receiver Options	
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	RESERVED
OFF	8	RESERVED

0193	CS Receiver 2 Options	
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	RESERVED
OFF	8	RESERVED

0215	CS Receiver 3 Options	
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	RESERVED
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.

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

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

CS Receiver 1	ADDRESS 0172-0191 (RIGHT DIGITS 1-20)																				
Telephone number	0172	0173	0174	0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	
(Digits 1-20)																					

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

CS Receiver 2	ADDRESS 0194-0213 (RIGHT DIGITS 1-20)																				
Telephone Number	0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	0212	0213	
(Digits 1-20)																					

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

CS Receiver 3	ADDRESS 0216-0235 (RIGHT DIGITS 1-20)																				
Telephone Number	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	
(Digits 1-20)																					

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] or [ON/OFF] 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 & SYSTEM REPORTING OPTIONS (ADDRESS 0259-0350)

Direct Address Program Mode

CS Telco 1 Subscriber Opening/ Closing ID Number (Area 1)	ADDRESS 0259-0262 (RIGHT DIGITS 1-4)			
	0259	0260	0261	0262

CS Telco 1 Subscriber Event ID Number (Area 1)	ADDRESS 0267-0270 (RIGHT DIGITS 1-4)			
	0267	0268	0269	0270

CS Telco 1 Subscriber Event ID Number (System)	ADDRESS 0275-0278 (RIGHT DIGITS 1-4)			
	0275	0276	0277	0278

CS Telco 2 Subscriber Opening/ Closing ID Number (Area 1)	ADDRESS 0279-0282 (RIGHT DIGITS 1-4)			
	0279	0280	0281	0282

CS Telco 2 Subscriber Event ID Number (Area 1)	ADDRESS 0287-0290 (RIGHT DIGITS 1-4)			
	0287	0288	0289	0290

CS Telco 2 Subscriber Event ID Number (System)	ADDRESS 0295-0298 (RIGHT DIGITS 1-4)			
	0295	0296	0297	0298

CS Telco 3 Subscriber Opening/ Closing ID Number (Area 1)	ADDRESS 0299-0302 (RIGHT DIGITS 1-4)			
	0299	0300	0301	0302

CS Telco 3 Subscriber Event ID Number (Area 1)	ADDRESS 0307-0310 (RIGHT DIGITS 1-4)			
	0307	0308	0309	0310

CS Telco 3 Subscriber Event ID Number (System)	ADDRESS 0315-0318 (RIGHT DIGITS 1-4)			
	0315	0316	0317	0318

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 (*).

2. Valid entries are: 1-9, 0 and B-F. **NOTE:** A is not permitted. Press [Enter] or ON/OFF to save.

CS SYSTEM REPORTING CODES	ADDRESS 0319-0332		
	ADDR		
Alarm Restore	blank (*)	0319	
Trouble	blank (*)	0320	
Trouble Restore	blank (*)	0321	
Xmitter Low Battery	blank (*)	0322	
Xmitter Supervision	blank (*)	0323	
Xmitter Tamper	blank (*)	0324	
RESERVED	blank (*)	0325	blank (*)
Opening	blank (*)	0326	
Closing	blank (*)	0327	
Opening after Alarm	blank (*)	0328	
Conditional Close	blank (*)	0329	
Cancel	blank (*)	0330	
Test Timer	blank (*)	0332	

CS SYSTEM REPORTING CODES	ADDRESS 0333-0350		
	ADDR		
Telco Fail		0333	
RF Rec. Trouble		0334	
Memory Fail		0335	
Low Battery		0336	
Panel AC Fail		0337	
EZM Tamper		0338	
Alarm Output Superv.		0339	
Ambush		0340	
Panic		0341	
Fire		0342	
Auxiliary *		0343	
Tamper		0344	
Fail to Open		0345	
Fail to Close		0346	
Keyfob Low Battery		0347	
Exit Error		0348	
Recent Close		0349	
Fault Find		0350	

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 or to save.

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

[Default = blank (*) blank (*) from address 0319-0332]
[Default = blank (*) blank (*) from address 0333-0350]

CS ZONE REPORTING OPTIONS (ADDRESS 0358-0389)

ADDRESS 0358-0365							
CONTROL PANEL ZONES REPORT CODE							
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8
0358	0359	0360	0361	0362	0363	0364	0365

ADDRESS 0366-0369			
ZONES REPORT CODE			
ZONE 9	ZONE 10	ZONE 11	ZONE 12
0366	0367	0368	0369

ADDRESS 0370-0373			
ZONES REPORT CODE			
ZONE 13	ZONE 14	ZONE 15	ZONE 16
0370	0371	0372	0373



ZONE REPORT CODE OPTIONS	
DATA ENTRIES	

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


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 0366), if the right digit is "3", then the reporting code is "39". For example, for zone 15 (address 0372), 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.
2. Press  or  to save.

CS AREA & SYSTEM REPORTING OPTIONS (ADDRESS 0391, 0392 & 0394)

AREA	LEFT DATA VALUES (CIRCLE )
AREA 1	1
RESERVED	2
RESERVED	4
RESERVED	8

DISABLE OPENING REPORTS	
ADDRESS 0391	
LEFT DIGIT (SUM OF DATA VALUES)	RIGHT DIGIT
	blank (*)

[Default = blank (*) blank (*)]



AREA	LEFT DATA VALUES (CIRCLE )
AREA 1	1
RESERVED	2
RESERVED	4
RESERVED	8

DISABLE CLOSING REPORTS	
ADDRESS 0392	
LEFT DIGIT (SUM OF DATA VALUES)	RIGHT DIGIT
	blank (*)

[Default = blank (*) blank (*)]

0394	CS System Report Options	
Default	Option	Option
OFF	1	Backup Report on Telco 2
OFF	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
OFF	7	Disable Wait for Handshake
OFF	8	Disable Auto Dial Tone Detect

CS AREA & 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  or  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 USER REPORTING OPTIONS (ADDRESS 0440-0459)

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	0440									0441								
Enable Closing Report, Telco 1	0445									0446								
Enable Opening Report, Telco 3	0450									0451								
Enable Closing Report, Telco 3	0455									0456								

Enable Users to Report Opening and Closings	ADDR	USERS 33 → 36								ADDR	USERS 9 → 16							
		U33	U34	U35	U36						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	0444									0441								
Enable Closing Report, Telco 1	0449									0446								
Enable Opening Report, Telco 3	0454									0451								
Enable Closing Report, Telco 3	0459									0456								

User 33 = Auto Arming/Disarming
 User 34 = Quickloader Arming/Disarming
 User 35 = Easy Arming (Opening not applicable)
 User 36 = 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 9-16, respectively.

CS USER REPORTING OPTIONS: [Default = blank (*) from address 0440-0459]

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 or to save.

Direct Address Program Mode

EZM GROUP OPTIONS (ADDRESS 0737-0742)

EZM Group 1
ADDRESS 0737

EZM Group 2
ADDRESS 0738

Default depends on Easy Menu Question “# OF ZNS IN PRER 1 ENTER # ZONES”. For example, if 32 Zones are used and Zone Doubling is **not** enabled, then all 6 Groups will be automatically enabled. If 32 Zones are used and Zone Doubling is enabled, then only Groups 1-4 will be automatically enabled.

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

EZM GROUP	ZONES COVERED
	NORMAL
1	9-12
2	13-16

EZM GROUP OPTIONS: Up to 2 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  or  to save.

AREA ARMING OPTIONS (ADDRESS 0743 & 0744)

Priority Arming Area 1	ADDRESS 0743

[Default = blank (*)]

PRIORITY ARMING/AREA 1	
DATA ENTRIES	OPTION
blank (*)	Not Used
1	Enabled

PRIORITY AREA ARMING:

1. Select option from the table shown.
2. Enter either blank() or "1" in corresponding address location.

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

3. Press  or  to save.



AREA BELL CONTROL OPTIONS (ADDRESS 0745-0747 & 0749)

0745 Burglary Output Turns Off upon Disarm		
Default		Option: Disarming Area 1:
ON	1	Area 1 Burg Output Silenced
	2	RESERVED
	3	RESERVED
	4	RESERVED
	5	RESERVED
	6	RESERVED
	7	RESERVED
	8	RESERVED

0746 Pulsed Burg Output Turns Off upon Disarm		
Default		Option: Disarming Area 1:
ON	1	Area 1 Pulsed Burg Output Silenced
	2	RESERVED
	3	RESERVED
	4	RESERVED
	5	RESERVED
	6	RESERVED
	7	RESERVED
	8	RESERVED

0747 PGM1 Output Turns Off upon Disarm		
Default		Option: Disarming Area 1:
OFF	1	Area 1 PGM1 Output Silenced
	2	RESERVED
	3	RESERVED
	4	RESERVED
	5	RESERVED
	6	RESERVED
	7	RESERVED
	8	RESERVED

0749 PGM2 Output Turns Off upon Disarm		
Default		Option: Disarming Area 1:
OFF	1	Area 1 PGM2 Output Silenced
	2	RESERVED
	3	RESERVED
	4	RESERVED
	5	RESERVED
	6	RESERVED
	7	RESERVED
	8	RESERVED

Direct Address Program Mode


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 output via an Area 1 keypad is not enabled by default. To enable selected area output control, enter the number (1,2,5,6) accordingly.

For example, if you wish to grant an Area 1 keypad the ability to turn off an PGM2 output, enter "2" in Address 0749.

 Enter digit in address location.



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

KEYPAD OPTIONS (ADDRESS 0723-0736)

Enable Keypad Type & Activation	ADDR	Enable Keypad Type	Keypad Area Assignment
		Blank (•) = Burg Keypad 2 = Wizard * <small>* Not for UL Installations.</small>	Blank (•) = Disabled 1 = Area 1 2 = Area 2
Keypad 1	0723		
Keypad 2	0724		
Keypad 3	0725		
Keypad 4	0726		
Keypad 5	0727		
Keypad 6	0728		
Keypad 7	0729		

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



NOTE: See Keypad Configuration Mode. By default from the factory, each keypad is configured as number 1.

1. Select keypad type for each keypad from the tables shown.
2. Enter data in corresponding address locations.
3. Press  or  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	0730								
Keypad 2 Options	0731								
Keypad 3 Options	0732								
Keypad 4 Options	0733								
Keypad 5 Options	0734								
Keypad 6 Options	0735								
Keypad 7 Options	0736								

[Default = blank (•) from address 0730-0736] * 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  or  to save.



ZONE OPTIONS - ZONES 1 TO 16 (ADDRESS 0490-0595)

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)	0490									0545								
† Priority	0491									0546								
† Priority with Bypass	0492									0547								
† Auto-Bypass	0493									0548								
† Selective Bypass	0494									0549								
† Keyswitch Arming	0495									0550								
† Auto-Bypass Re-entry	0496									0551								
† Pre-Alarm Warning	0497									0552								
† Never Arm	0498									0553								
† 24-Hour Zone	0499									0554								
† Alarm Output	0500									0555								
† Pulsed Alarm Output	0501									0556								
† PGM1 Output	0502									0557								
† PGM2 Output	0503									0558								
† Entry/Exit 1	0504									0559								
† Entry/Exit 2	0505									0560								
† Exit/Entry Follower	0506									0561								
†★ Auto Reset	0507									0562								
†★ Swinger Shutdown	0508									0563								
† Chime	0509									0564								
† Abort Delay	0510									0565								
† Power-up Delay	0511									0566								
† Day Zone Open	0512									0567								
† Day Zone Short	0513									0568								
† Alarm on Day Zone	0514									0569								
† Alarm Telco 1	0515									0570								
† Alarm Restore 1	0516									0571								
† Trouble Telco 1	0517									0572								
† Trouble Restore 1	0518									0573								
† Alarm Telco 3	0519									0574								
† Alarm Restore 3	0520									0575								
† Trouble Telco 3	0521									0576								
† Trouble Restore 3	0522									0577								
† No EOL Resistor	0523									0578								
† Trouble on Open	0524									0579								
† Trouble on Short	0525									0580								
† Zone Area 1	0526									0581								
† RESERVED	0527									0582								
† Interior (Stay) Bypass	0528									0583								
† Keypad Sounder on Alarm	0529									0584								
† 2-Wire Smoke Detectors (B)	0530									0585								
† Fire (C)	0531									0586								
† Fire Alarm Verification (C)	0532									0587								
† RESERVED	0533									0588								
† Zone ANDing Group 1	0534									0589								
† Zone ANDing Group 2	0535									0590								
† Zone ANDing Group 3	0536									0591								
† Zone ANDing Group 4	0537									0592								
† Sensor Watch	0538									0593								
† RESERVED	0539									0594								
† Chime 2	0540									0595								

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

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] or ON/OFF] to save

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RF RECEIVER & SUPERVISORY TIMER OPTIONS (ADDRESS 1038-1053 & 1180)

Number of RF Receivers	ADDRESS 1180	
	LEFT DIGIT	RIGHT DIGIT
	blank (*)	

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

RF RECEIVERS: Up to 2 RF Receivers may be programmed. **NOTE:** This adds wireless capability to the system, increasing up to 16 the number of zones.

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

2. Enter number in address location shown.

3. Press  or  to save.

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

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/EDY-NN 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.

3. Press  or  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.	1038	
Type 1	Window/Door, 2 Pt.	1039	
Type 2	Window/Door, 2 Pt.	1040	
Type 3	Window/Door, 2 Pt.	1041	
Type 4	Window/Door, 4 Pt.	1042	
Type 5	PIR	1043	
Type 6	PIR	1044	
Type 7	Smoke Detector	1045	
Type 8	Smoke Detector	1046	
Type 9	Keyfob	1047	
Type A	Dual Tech.	1048	
Type B	Keyfob	1049	
Type C	Window/Door, 4 Pt.	1050	
Type D	PIR	1051	
Type E	Smoke Detector	1052	
Type F	Napco Glass Break	1053	

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 1046-1053]. Default = 8 (240 minutes)

NOTE: These timers apply only to Supervised RF Transmitters (see RF Transmitters in Easy Menu Driven Mode Programming).

Direct Address Program Mode

CLEAR PROGRAM OPTIONS (ADDRESS 1197 & 1198)


1197 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 1197, then press . Data entry is not allowed.

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


1198 XX

H

Cold Start (Erases Entire Program)

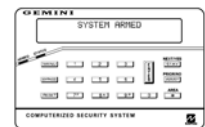


This erases the entire program including Dealer Program by erasing Program Data, Zone Description Data and System Status Data (similar to a new panel).

Access address 1198, then press . Data entry is not allowed.






NOTE: Some features (schedules) can only be programmed again with the Downloading Software.

USER PROGRAM MODE





PRELIMINARY INFORMATION

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

-  Only Keypad #1 may be used for programming, however this keypad may be located in any area.
-  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  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.

NOTE: For ease of programming, it is recommended that a GEM K1CA (or GEM-RP1CAe2) be used as Keypad #1. A new GEM-K1CA and a new GEM-RP1CAe2 are automatically configured as Keypad #1. See Keypad Configuration Mode.

-  Press the  button to silence the sounder and exit the User Program Mode.

If a GEM-RP2ASe2/GEM-K2AS keypad is used, configure address jumpers as Keypad #1 (See W11182).

ACCESSING USER PROGRAM MODE

1. Press

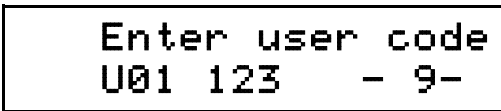
2. Press Until "ACTIVATE PROGRAM Y/N" appears on LCD screen.

3. Press To Enter User Program Mode

4. Press To Exit User Program Mode when finished

User Program Mode

USER CODES



GEM-K1CAe2 Keypad (Direct Entry)

Up to 32 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 8).

Use the 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.

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 .

Press the button to save the code in memory.

Repeat this procedure for each user. To proceed to Zone-Description programming, press the NEXT button or the PRIOR button.

To Program User Codes

1. Set Cursor Position using the .
2. Enter 2-digit User Number (01-32) directly using number buttons (0-9).
3. Enter Code (1-6 digits) directly using number buttons (0-9).
4. Press the button to save each code.


NOTE: Press button to clear character at cursor.
 To continue press or .


Programming User Codes with GEM-K1CAe2 Keypad


ZONE DESCRIPTIONS (GEM-RP1CAE2 / GEM-K1CA KEYPADS)

01-


Enter an identifying description for each zone. Buttons **1** and **2** set the cursor position; buttons **3** and **6** scroll numbers, letters, punctuation marks, etc.

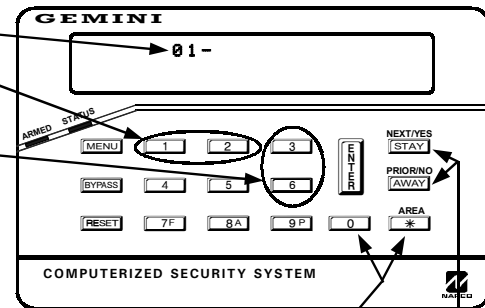
 Position the cursor over the displayed Zone Number (i.e., "01") using buttons **1** and **2**.

 Change the Zone Number using buttons **3** and **6**.

 Position the cursor over the first character of the description field. Advancing the cursor between characters, program a description of up to two lines for the new zone using buttons **3** and **6**.


To Program Zone Descriptions

1. Set the Cursor Position using buttons **1** and **2**.
2. Select characters for zone description using buttons **3** and **6**.
3. Press the  button to save each descriptor.



NOTE: Press *** 0** button to clear character at cursor.
To continue press **STAY** or **AWAY** button.


Programming Zone Descriptions

Press  to save. Advance to the next zone as in Steps 1 and 2 above and repeat this procedure until all zones have been programmed. After programming the user codes, press the NEXT button to proceed.

Enter Date
(/)

(Direct Entry)


Enter Date (Press the  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  to save. Press NEXT button to proceed.

Enter Time
(:)

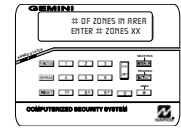
(Direct Entry)

Enter Time (Press the  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  once again to save.

NOTE: To enter the date and time, GEM-RP1CAe2/GEM-K1CA keypad (version 6 or greater) must be used and "Enable Keypad Time/Date Display" (Address 0718) must be enabled.

KEYPAD CONFIGURATION MODE



This section will focus on configuring the GEM-RP1CAe2/GEM-K1CA Keypads. If there is more than one keypad in the system, *only Keypad No. 1 may be used for programming.*

KEYPAD INSTALLATION

Several types of keypads may be used with the GEM-P816: the GEM-RP1CAe2/GEM-K1CA, the GEM-RP2ASe2/GEM-K2AS, the GEM-RP3DGTL/GEM-K3DGTL, and the GEM-RP4RFC/GEM-K4RF series (see WI1182). Each must be assigned an address number (1–7) and each requires its own configuration procedure (see CONFIGURING THE KEYPADS, which follows, and DIRECT ADDRESS KEYPAD AREA OPTIONS). At least 1 keypad must be used; only 1 is required for a single-area Commercial Burglary installation.

GEM-RP1CAe2/GEM-K1CA - is a 2-line combination fire/burglary/access keypad capable of supporting 4 EZM zones and a PGM output. The GEM-RP1CAe2 or GEM-K1CA is recommended for use as Keypad #1. See "Important Note" on page 2 for more information regarding the buttons on the GEM-RP1CAe2/GEM-K1CA keypads.

GEM-RP2ASe2/GEM-K2AS - is a utility LCD keypad combining several preset LCD words with a limited message line.

NOTE: Due to space constraints, available messages are abbreviated and will scroll automatically. (See WI1182).

CONFIGURING THE KEYPADS

A total of up to 7 keypads may be connected to the panel. GEM-RP1CAe2/GEM-K1CA, GEM-RP2ASe2/GEM-K2AS, GEM-RP3DGTL/GEM-K3DGTL, and GEM-RP4RFC/GEM-K4RF keypads may be intermixed but require different configuration procedures, as described below and in WI1182.

Configuring the GEM-RP1CAe2/GEM-K1CA Keypad

Each GEM-RP1CAe2/GEM-K1CA 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 on page 48.
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 **BE** button (the **BE** 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 **BE** (the **BE** 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)

☞ Only Keypad No. 1 may be used for programming.

To assign the keypad number, proceed as follows:

1. Enter the assigned keypad number 01–07, then press **BE** 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-P816 CONTROL PANEL.

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 "06". (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 **MENU**.

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 **MENU** button.

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

Program Control Message (Not Applicable)

Program Control Message # ?

THIS FEATURE IS NOT COMPATIBLE WITH THE GEM-P816 CONTROL PANEL.

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 3

Name:	Address:
Account Number:	Installer:

Area 1: # of Zones (1-16) = **Zone Doubling?:** Yes No **Area 1: # of Keypads (1-7) =**

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

Enter Fire Zones (1-16): _____ **2-Wire Fire Zones?:** Zone 7 Yes No Zone 8 Yes No

Enter Entry/Exit Zones (1-16): _____ **Enter Interior Zones (1-16):** _____

Report all Zones to Central?: Yes No

Central Station Receiver 1 Telephone Number:

Central Station Receiver 1 Account Number:

Central Station Receiver 1 Format:

- | | |
|--|---|
| <input type="checkbox"/> blank (*) = Ademco Slow, Silent Knight Slow
<input type="checkbox"/> 2 = Radionics Fast
<input type="checkbox"/> 3 = Silent Knight Fast
<input type="checkbox"/> 4 = Radionics, DCI, Franklin Slow | <input type="checkbox"/> 5 = Universal High Speed
<input type="checkbox"/> B = SIA
<input type="checkbox"/> C = Ademco Point ID
<input type="checkbox"/> E = Pager |
|--|---|

User Codes:

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

EASY MENU PROGRAMMING WORKSHEET - 2 OF 3

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				

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 3

Zone Descriptions (GEM-RP1CAe2 Keypads Only):

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																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

Characters Available for Zone Descriptions
 ! @ # \$ % ^ & * () _ + ! | { } [] ` , . < > ?
 1 2 3 4 5 6 7 8 9 0
 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 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:

ALPHABETICAL INDEX

PROGRAMMING OPTION	PROGRAM MODE	ADDRESS LOCATION	PAGE
24-Hour Zone (Enable Zone)	Direct Address	0499, 0554	26
3/1 with Extended Restores	Direct Address	0171, 0193 & 0215	19
50ms Loop Response (A) (Enable Zone)	Direct Address	0490	26
Abort Delay (Enable Zone)	Direct Address	0510, 0565	26
Abort Delay (Time)	Direct Address	0715	15
Abort Delay Limit Enable	Direct Address	1062	18
AC Fail Report Delay (Time)	Direct Address	0717	15
Access Control on PGM2 Output	Direct Address	0719	18
Alarm on Day Zone (Enable Zone)	Direct Address	0514, 0569	26
Alarm Output (Enable Zone)	Direct Address	0500, 0555	26
Alarm Output Timeout	Direct Address	0712	16
Alarm Restore 1 (Enable Zone)	Direct Address	0516, 0571	26
Alarm Restore 3 (Enable Zone)	Direct Address	0520, 0575	26
Alarm Telco 1 (Enable Zone)	Direct Address	0515, 0570	26
Alarm Telco 3 (Enable Zone)	Direct Address	0519, 0574	26
AREA (PRIORITY) ARMING OPTIONS	Direct Addresses	0743 & 0744	23
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Auto Bell Test on Arming	Direct Address	0719	18
Auto Reset (Enable Zone)	Direct Address	0507, 0562	26
Auto Reset after Burglary Output Timeout	Direct Address	0719	18
Auto-Bypass (Enable Zone)	Direct Address	0493, 0548	26
Auto-Bypass Re-entry (Enable Zone)	Direct Address	0496, 0551	26
Automatic Interior Bypass/Easy Exit	Direct Address	0722	18
Backup Reporting on Telco 2	Direct Address	0394	21
Burglary Output Turns Off upon Disarm	Direct Address	0745	24
Callback Telephone Number	Direct Address	0236-0255	16
Cancel Next Test Timer on any Report	Direct Address	0394	21
Cancel Report Code	Direct Address	0330	20
Change Pulse Output to Temporal Output	Direct Address	0720	18
Chime (Enable Zone)	Direct Address	0509, 0564	26
Chime 2 (Enable Zone)	Direct Address	0540, 0595	26
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Chirp Output on Keyfob Arm/Disarm	Direct Address	0720	18
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CS AREA & SYSTEM REPORTING OPTIONS	Direct Addresses	0391, 0392 & 0394	21
CS Receiver 1, 2 & 3 Formats	Direct Address	0170, 0192 & 0214	19
CS Receiver 1, 2 & 3 Telephone Numbers	Direct Address	0172-0191, 0194-0213 & 0216-0235	19
CS RECEIVER OPTIONS	Direct Addresses	0170-0191, 0192-0213, 0214-0235	19
CS SUBSCRIBER ID & SYSTEM REPORTING OPTIONS	Direct Addresses	0259-0350	20
CS SYSTEM REPORTING CODES	Direct Addresses	0319-0332, 0333-0350	20
CS Telco 1, 2 & 3 Subscriber Event ID Numbers (Area 1)	Direct Address	0227-0270, 0287-0290 & 0307-0310	20
CS Telco 1, 2 & 3 Subscriber Event ID Numbers (System)	Direct Address	0275-0278, 0295-0298 & 0315-0318	20
CS Telco 1, 2 & 3 Subscriber Opening/Closing ID Numbers (Area 1)	Direct Address	0259-0262, 0279-0282 & 0299-0302	20
CS USER REPORTING OPTIONS	Direct Addresses	0440-0459	22
CS ZONE REPORTING OPTIONS	Direct Addresses	0358-0389	21
Day Zone Open (Enable Zone)	Direct Address	0512, 0567	26
Day Zone Short (Enable Zone)	Direct Address	0513, 0568	26
Dealer Code	Easy Menu Driven	N/A	5
Digital Dialer Report Enter/Exit Test Mode	Direct Address	1062	18
Disable [ON/OFF] as Easy Exit	Direct Address	1060	18
Disable Auto Cancel on Disarm	Direct Address	1060	18
Disable Auto Dial Tone Detect	Direct Address	0394	21
Disable Call Waiting on 1 st Attempt	Direct Address	1062	18
Disable Callback Download	Direct Address	0720	18
Disable Closing Reports	Direct Address	0392	21
Disable Function Mode Download	Direct Address	0720	18
Disable Keypad Function Mode Download	Direct Address	0720	18
Disable Keypad Instant Mode	Direct Address	0719	18
Disable Opening Reports	Direct Address	0391	21
Disable Second Call Ans. Machine Override	Direct Address	0722	18
Disable System Trouble Audible Timeout	Direct Address	1060	18
Disable Wait for Handshake	Direct Address	0394	21
Disable Wait for Silence	Direct Address	0394	21
Disable Zone Fault Scrolling	Direct Address	0718	18
DOWNLOAD/CALLBACK OPTIONS	Direct Addresses	1183 & 0236-0255	16
Enable Alarm Output on Telco Fail only when Armed	Direct Address	0721	18
Enable AutoArm if not closed at end of Window	Direct Address	0718	18



ALPHABETICAL INDEX (CONT'D)

PROGRAMMING OPTION	PROGRAM MODE	ADDRESS LOCATION	PAGE
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Enable CP-01 Limits	Direct Address	1062	18
Enable EZM Group	Direct Address	0737-0742	23
Enable GEM-PRINT Module	Direct Address	1060	18
Enable Global Ambush Code	Direct Address	0720	18
Enable Keypad Set Time/Date Message	Direct Address	1060	18
Enable Line-Fault Test	Direct Address	0721	18
Enable Local Alarm on First Zone AND Trip	Direct Address	0719	18
Enable Manager's Mode	Direct Address	0719	18
Enable Residential Fire	Direct Address	0720	18
Enable Stay/Away Keypad	Direct Address	1060	18
Enable Time/Date KP Display	Direct Address	0718	18
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Enable Zone Number on Pulse Alarm	Direct Address	0171, 0193	19
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Entry Delay 2 (Time)	Direct Address	0002	15
Entry/Exit 1 (Enable Zone)	Direct Address	0504, 0559	26
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NOTES

NOTES



GEM-P816 WIRING DIAGRAM

GEM-P816 Wiring Diagram

NAPCO SECURITY SYSTEMS, INC.
AMITYVILLE, N.Y. 11701



This equipment should be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72-1996 (National Fire Protection Association Batteryman Park, Quincy, MA, 02269), and local codes. Information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment. UL Listed Limited Energy. Cable is required.

GEM-P816 WIRING DIAGRAM

(REFER TO OPERATION AND INSTALLATION INSTRUCTIONS W894)
 RESIDENTIAL AND COMMERCIAL BURGLARY *-*

TRANSFORMER BATTERY	STANDBY CURRENT	ALARM CURRENT	STANDBY TIME
16.5V	7AH	650mA	2.0A 4 HOURS
40VA/50VA*	4AH	500mA	2.0A 4 HOURS
20VA*	7AH	500mA	2.0A 6 HOURS

TRANSFORMER BATTERY	STANDBY CURRENT	ALARM CURRENT	STANDBY TIME
16.5V	7AH	520mA	24 HOURS
40VA/50VA*	2-7AH	360mA	24 HOURS
20VA*	7AH	120mA	24 HOURS
20VA*	2-7AH	360mA	24 HOURS

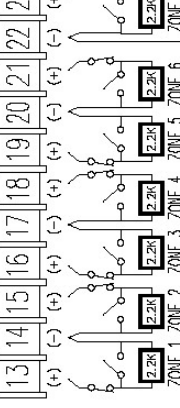
(1) ALARM CURRENT CAN BE INCREASED BY REDUCING STANDBY CURRENT BY THE SAME AMOUNT.
 ** COMMERCIAL BURGLARY IS NOT PRESENTLY EVALUATED BY UL.

POD LOCAL DOWNLOAD CONNECTION
 NOT FOR TEL LINES
 JP2

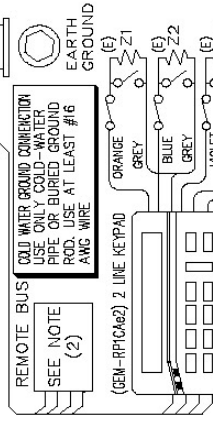
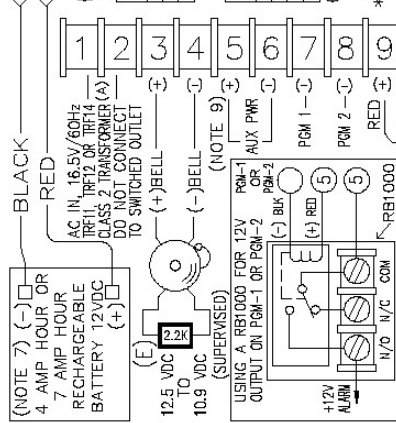
DS1
 TELCO
 E5 E19

JP3
 BURG 2-WF
 BURG 2-WF

STANDARD ZONE WIRING (12VDC 5mA)



MIN/MAX 13.6V TO 9.0V



OPTIONAL THERMISTAT



MAX. LINE RESISTANCE 50 OHMS.

FT2200

MODEL DELAY-SEC.

- NOTES:
- ALARM CURRENT CAN BE INCREASED BY REDUCING STANDBY CURRENT BY THE SAME AMOUNT.
 - THE FOLLOWING DEVICES MAY BE PLACED ON THE REMOTE BUS: GEM-PPCA62, GEM-PP2AS62, GEM-PP3DGTL GEM-EZMB, GEM-X10, GEM-RECV8, GEM-RECV16, GEM-EVAL1, WIZARD2, GEM-K1CA, GEM-K2AS, GEM-K3DGT1 AND GEM-RECV96.
 - REFER TO W894 FOR UL LISTINGS.
 - COMBINED STANDBY CURRENT = KEYPAD CURRENT + AUX CURRENT + FIRE POWER + PGM1 AND PGM2 CURRENT.
 - UNIT INTENDED TO BE MOUNTED VERTICAL ON WALL.
 - REFER TO W894 FOR COMPATIBLE TWO WIRE SMOKE DETECTORS. DO NOT MIX DIFFERENT MODELS.
 - RECOMMENDED BATTERIES YUASA NP4-12 OR NP7-12. BATTERY SHOULD BE REPLACED EVERY 5 YEARS.
 - THIS PANEL SHALL BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST ONCE EVERY 3 YEARS.
 - AUX. POWER AND FIRE POWER VOLTAGE RATING: 12.5 VDC TO 11.7 VDC. THE PANEL WILL DISREGARD INPUTS FROM ALL SENSORS WHEN VOLTAGE DROPS BELOW 8.5V
 - A.C. MUST BE DISCONNECTED WHEN PERFORMING WEEKLY TESTS.
 - THIS PANEL ONLY SUPPORTS ONE SMOKE DETECTOR IN ALARM FOR EACH ZONE.
 - DISABLE AUTO-RESET ON NON-FIRE ZONES FOR SIA CP-01 INSTALLATIONS

LA1831A