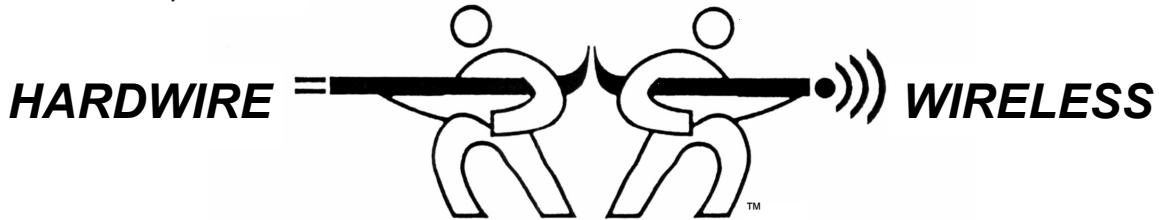




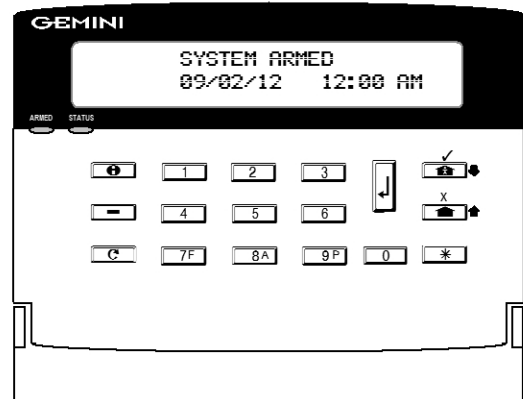
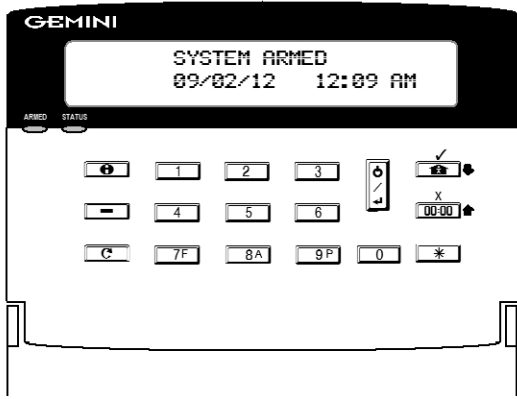
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# PROGRAMMING INSTRUCTIONS



## LIBRA-P432EX Series CONTROL PANEL/COMMUNICATOR

Programming the LIBRA LIB-P432EX, LIB-P432EXT, LIB-P432EXT-230 Control Panels with the GEM-DXRP1 and the GEM-DXK1 Keypads



### Quick Start (for GEM-DXRP1)

1. Refer to the wiring diagram, connect Siren, Aux. Power, PGM Output, Remote Bus, Earth ground, Zone and Telephone wiring. NOTE: See Installation Instructions (WI1691).
2. Connect AC power first and then the battery.
3. Configure the keypad (see page 42).
4. Access the Easy Menu Driven (Dealer Program) Mode:

Press **4** **5** **6** **7F** **8A** **9P** **⏪**

↔ Dealer Code ↔

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

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

### Quick Start (for GEM-DXK1)

1. Refer to the wiring diagram, connect Siren, Aux. Power, PGM Output, Remote Bus, Earth ground, Zone and Telephone wiring. NOTE: See Installation Instructions (WI1691).
2. Connect AC power first and then the battery.
3. Configure the keypad (see page 42).
4. Access the Easy Menu Driven (Dealer Program) Mode:

Press **4** **5** **6** **7F** **8A** **9P** **⏪**




↔ Dealer Code ↔

Press NO ( **00:00** ) until "ACTIVATE PROGRAM Y/N" appears on the keypad display.







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


**THIS MANUAL INCLUDES FEATURES WHICH ARE ONLY AVAILABLE IN  
CONTROL PANEL FIRMWARE VERSION 30K OR LATER.**

## **IMPORTANT NOTE**

This manual supports the keypad programming of the LIB-P432EX series control panels with the NAPCO GEM-DXRP1 keypad and the GEM-DXK1 keypad. The GEM-DXK1 model offers simplified functionality with STAY (  ) and AWAY (  ) buttons, and compared with the GEM-DXRP1, a different icon is printed on the ENTER (  ) button.

While the programming instructions in this manual are depicted using the "DXK Series" models, this manual also applies to the "DXRP" models because keypad **Program Mode** is identical for both types of keypads--**only the button icons are different**, as follows:

- The  button and the  button operate identically (in Program Mode) for both keypads.
- The "Interior" (  ) button and the "STAY" (  ) button operate identically (in Program Mode) for both keypads. These buttons are also used to answer "YES" or "NEXT" to questions that appear on the keypad display; on occasion, a checkmark "✓" or a down arrow "↓" may be used in this manual as well.
- The "Instant" (  ) button and the "AWAY" (  ) button operate identically (in Program Mode) for both keypads. These buttons are also used to answer "NO" or "PRIOR" to questions that appear on the keypad display; on occasion, an "X" symbol or an up arrow "↑" may be used as well.

 For consistency, it is recommended that all keypads used in one alarm system either be all type "DXRP" or all "DXK Series" -- both keypad types should not be used in one alarm system.

### **The following applies to the LIB-P432EXT and LIB-P432EXT-230 control panels only:**

#### **Telephone Connection**

The LIB-P432EXT and LIB-P432EXT-230 products under the R&TTE Directive 99/5/EC complies with the CTR21 regulation and may be used on the PUBLIC network with the following restrictions:

- Do NOT use the ROTARY Dialing feature as this is not evaluated in CTR21.

#### **Special Programming**

- Pulse dialing is NOT to be used. Programming location **0788 CS SYSTEM REPORT OPTIONS** shall have the right digit entry always a 2 (= Touch-Tone Dialing only). If using the option of "Disable Dial Tone Detect" in location 0788 then a 3 second pause must precede the "CS receiver telephone number" by entering a D before the telephone number.
- **Note:** Address 1424, "Disable Code Required for EZ Bypass", the default panel configuration is "OFF".

**WARNING: If using the EZ Driven Program Mode, be aware that all EN501 defaults will be deleted. Refer to page 56 of the Installation Instructions (WI1691) for setting the EN50131-1 features.**



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Refer to accompanying LIB-P432EX Series Installation Instructions (WI1691) for installation information.


# SYSTEM PROGRAMMING OPTIONS

## INTRODUCTION

The LIB-P432EX 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-DXRP1/GEM-DXK1 (version 8 keypad), the recommended keypad for programming. For Programming Instructions with the GEM-DXRP2 / GEM-DXK2, GEM-DXRP3 / GEM-DXK3 and the GEM-DXK4RF series, see WI1771.

✓ **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.

✓ **Easy Menu-Driven Program (Dealer Program) Mode - Keypad Programming.** The Easy Menu-Driven Program Mode allows keypad programming of number of zones in area 1, panel zone doubling, number of fire zones (both 4-wire and 2-wire), local or Central Station reporting, number of exit/entry zones, number of interior zones, number of 24 hour zones, number of chime zones, Chime 2 zones, Exit/Entry2 zones, 50ms loop response zones, 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, Test Timer, 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).

### 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  button or the NEXT ("✓" or ) 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

- ☞ 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 2286) performs identically to a new panel.
- ☞ When programming a Multiple Area System, Direct Address Programming Mode must be used to complete the program.

For ease of programming, it is recommended that a GEM-DXRP1 or GEM-DXK1 be used. For Programming Instructions with the GEM-DXRP2 / GEM-DXK2, GEM-DXRP3 / GEM-DXK3 and the GEM-DXK4RF series, see WI1771.

## ACCESSING DEALER PROGRAM MODE

1. Press          
↙ Dealer Code ↘

2. Press PRIOR ("X" or ) button until "ACTIVATE PROGRAM Y/N" appears on LCD screen.

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

This procedure will automatically set up system keypads, 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 2285 (Clear Program); (c) press the  button and start over.



## GEM-DXRP1 / GEM-DXK1 Keypad Easy Program Menu

To create a custom program using the GEM-DXRP1 / GEM-DXK1 keypad, simply answer the following questions and record your information on the *Easy Menu Programming Worksheet*. In each of the following steps, press  to set cursor, the NEXT (" or  ) to go forwards, the PRIOR (" or  ) to go backwards,  to save and  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  to save. Press  to proceed.

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

(Press YES or NO)



### Panel Zone Doubling (New Program Only)

- To double the number of hardwired panel zones from 8 to 16, press .
- If Panel Zone doubling is not desired, press .
- The 16 zones will remain EOL terminated zones, requiring Normally Closed devices only.
- Refer to Wiring Diagram and Installation Instructions for wiring instructions

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

(Direct Entry)

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

- Enter the zone number of any Fire Zones (including 2-wire, 4-wire or wireless).
- Valid entries are from 01 to 32.
- Directly enter each zone number, including leading zeros, and press  to save, and then repeat for any additional zone(s). Press  to proceed.

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

(Press YES or NO)



### Local or Central Station Reporting System (New Program Only)

Press  for all zones to report; press  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  to save and repeat for any additional zone(s); press  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  to save and then repeat for any additional zone(s).
- Press  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  to save and repeat for any additional zone(s); press  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  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  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  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)**

- 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  to proceed. **Note:** Only panel zones 01-08 can be programmed for Quick Loop Response. Time can also be adjusted via address 2280.

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

(Direct Entry)

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



- Enter the zone numbers of zones to activate the PGM2 upon alarm.
- Valid entries are from 01 to 32. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press  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  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  to proceed.

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

(Direct Entry)

**Auto Bypass Re-entry Zones (New Program Only)**


- 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  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  to continue.

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

(Press YES or NO)



**Enable Telco Line Fault Test?**

- Press  to enable Telco Line Fault Test.
- Press  to continue. **NOTE: If enabled, a Telco Line Fault Test Delay of 60 seconds will automatically be programmed.**

Enable Burg Out Chirp? Y/N

(Press YES or NO)

**Enable Burg Output Chirp on KeyFob?**



- Press YES ("✓" or ) to enable Burg Output Chirp on Keyfob Arm / Disarm.
- Press PRIOR ("X" or ) to continue.

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

Enable SIA CP-01? Y/N

(Press YES or NO)

**Enable SIA CP-01 Features?**



- Press YES ("✓" or ) to enable.
- Press PRIOR ("X" or ) to continue.

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

# Area 1 Keypads Enter # KPs 01

(Direct Entry)

**Number of Keypads in Area 1**
















- Enter the total number of Keypads to be installed in Area 1.
- Valid entries are from 01 to 07. Directly enter the number of keypads, including leading zeros. Press  to save. Press YES ("✓" or ) to proceed.

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

Central Phone #

(Direct Entry)

**Central Station Receiver 1 Telephone Number**







- Enter telephone number of up to 16 digits.
- Press  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 YES ("✓" or ) to proceed.

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

Central Station Account # (\_\_\_\_)

(Direct Entry)

**Central Station Receiver 1 Account Number**











- Enter an account number of up to four digits.
- Press  through  for digits 0–9, and   for a blank (\*).
- Press  to save and press YES ("✓" or ) to proceed.

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

See WI for Info Rcvr Format (0)

(Direct Entry)

**Central Station Receiver 1 Format**

- From the table at the right enter the receiver format.
- Press  through , and   for blank (\*).
- Press   through   for letters B–E.
- Press  to save and press YES ("✓" or ) to proceed.











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

Enter user code-> U01 123 - 9-

User# User Code Area 1 Area 2

**Enter User Codes** (Press  to set cursor.)

For default program, enter up to 64 User Codes, with Area 1, 2, 3 & 4 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. For Area 3 & 4 Options, press () a third and fourth time.
- If "Enable Global Ambush Code" (Address 1422) is enabled and "Global Ambush Code" (Address 2045) is **not** left blank (\*), *do not* program the first two digits of ANY User Code the same as the "Global Ambush Code". See Address 2045 further in this manual for more information.
- Press  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 YES ("✓" or ) to proceed.

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

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

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



AREA OPTIONS	EXPLANATION
Disabled	User Code not active in this area.
Arm/Disarm	Allows User Code to arm/disarm this area.
Arm Only	Prevents User Code from disarming this area.
Service	A Service Code has restricted arm/disarm rights; if an area is armed with a Service Code, a "MONITOR ON" appears on the GEM-DXRP2 keypad and the area can be disarmed with any valid User Code, including a Service Code. If the area is armed with OTHER than a Service Code, it CANNOT be disarmed with a Service Code. This is typically used to allow tradesmen access to premises under control of the owner.
Ambush	There are two types of Ambush Codes: (1) A 2-digit code (prefix) that is entered immediately prior to (and as part of) the regular User Code and (2) A separate and unique User Code. Disarming with an Ambush Code will cause a silent report to be sent to a central station. Thus, should a user be forced to disarm, he can silently signal an emergency while appearing to be merely disarming the system.
Access	This is normally used to activate a door strike while an area is disarmed. Also program "Access Control on PGM2. Output" (Address 0719) and "PGM2 Output Access Control Timeout" (Address 0711).
* User Program	User Program Option is enabled. To enable User Program Option for any user, add 8 to the data entry for Area Option (see example). Then, User Programming can be performed at any Keypad by a user code with user program enabled.
Bypass Enable	Security Bypass-Bypass is enabled only with a security code.

Related User Options: "Enable Global Ambush Code" (Address 1422), "Global Ambush Code" (Address 2045) & "Enable Manager's Mode" (Address 1421).

**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 # Xmitter Check Point  
Mapped to ID Sum #

#### 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 YES ("✓" or ) 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
```

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

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

1. Enter the zone number to which the transmitter point will be mapped.
2. Press 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 Check Aux  
# # ID Sum 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 through 4).
- The **6-digit RF ID #** and **1-digit checksum number** printed on the transmitter and box,
- The **Aux 1 Option** (see key fob aux 1 & aux 2 options).
- The **Aux 2 Option** (see key fob aux 1 & aux 2 options).
- Press to save and YES ("✓" or ) 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" = .

**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 64 key fobs (using 1 button) or 32 key fobs (using 2 buttons) or 16 key fobs (using all 4 buttons) or any combination up to a maximum of 64 controlled zones can be assigned, providing multiple wireless panic buttons on a system, each reporting to a Central Station or a pager and/or annunciating on a keypad the key fob zone number with a description. To assign a key fob to a zone: program the key fob as you would a transmitter, entering the key fob's ID code, check sum and point number at the appropriate zone. The "Quick Method" is not allowed. The zone may be hardwired to an electrical sensor as well as assigned to a key fob (either one will activate the zone alarm output).

**NOTE:** If assigning a key fob to a zone, the "ON/OFF" buttons on the key fob will no longer arm/disarm the system. The key fob is converted to a "panic only" device.

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

01-

(Direct Entry)

**Enter Zone Descriptions**

- For each zone, enter a description of up to two lines. Press to save each description.
- See page 41 for instructions for entering characters and numbers for the zone descriptions.
- To proceed to the next description, place the cursor under the Zone Number (e.g. "1") and

press the number that corresponds to the zone. Program new description as above. **NOTE:** Zone Descriptions can only be entered through the GEM-DXRP1/GEM-DXK1 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 to set cursor).

- Enter the current date in the format MM/DD/YY. (MM = month, DD = day and YY = year.
- Press to save. Press NEXT ("✓" or ) to proceed.

Enter Time  
( : )

(Direct Entry)

**Enter Time** (Press 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 to save. Press NEXT ("✓" or ) to proceed.

Dealer Code  
456789

**Dealer Code**

- Directly enter the Dealer Code (default = 456789), using through buttons.
- Press to save. Re-enter the Dealer Code to verify the previous code. Press to save.
- Press NEXT ("✓" or ) to proceed.

DEALER CODE  
RE-ENTER

TEST TIMER  
SMTWTFS HH:MM

**Test Timer**

- Select day(s) by simply erasing the unwanted days. Move the cursor over the day and press any number key to erase/restore the day. For example, "Monday" and "Friday" will appear as: ".M...F."
- Enter Time (in 24 hour format) by moving cursor under the left H and pressing two digits to overwrite the existing default of 00. **Note:** Midnight is 00:00. Enter minutes by continuing to enter data or if just updating minutes move the cursor under the left M and enter the two digits to overwrite the existing default of 00. Use as right cursor one position.

**EXIT DEALER PROGRAM MODE:** This completes the custom default program. Press to enter the Direct Address Program Mode for further programming or press 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 to enter the Address Program Mode; (b) access Location 2285 (Clear Program) or 2286 (Cold Start); (c) press and then (d) press to exit the Dealer Program Mode. A "SYSTEM TROUBLE/E09-00 SERVICE" will occur. Press to silence the keypad.

2285 XX H

**Clear Dealer Program (Erases Dealer Program)**

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

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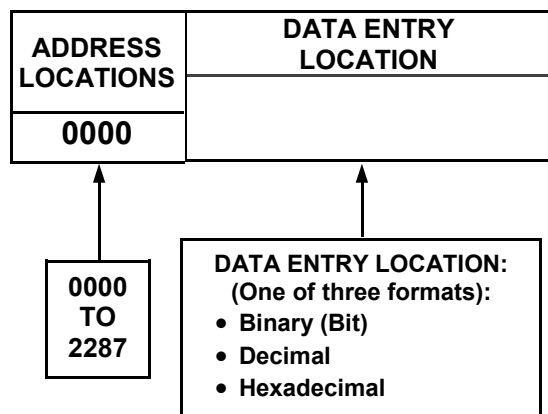
**Cold Start (Erases Entire Program)**

This erases all programmed data (Dealer Program, Zone Description Data and Schedules). Access address 2286 and press . Data entry is not allowed. **NOTE:** Some features (schedules) can only be programmed again with the Downloading Software.

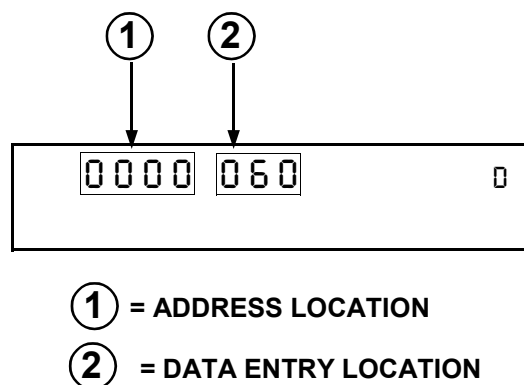
# DIRECT ADDRESS PROGRAM MODE

## DIRECT ADDRESS OVERVIEW

Direct Address Programming allows you to go directly to the address locations (up to 2287) and change the data entries manually in order to customize your control panel options. Whereas the Easy Menu Program Mode guides you through limited selections to get you started, **Direct Address Program Mode** allows you to change all options directly. It consists of up to 2287 address locations each with data entry locations as shown in the following diagram (below left). The data entry location accepts data in one of three formats: Binary, Decimal and Hexadecimal (explained below in "**Address Mode Displays**"). The following diagram (below right) illustrates a *Decimal* format data entry location (using a GEM-DXRP1/GEM-DXK1 keypad).



GEM-DXRP1 / DXK1 Keypad Display Example



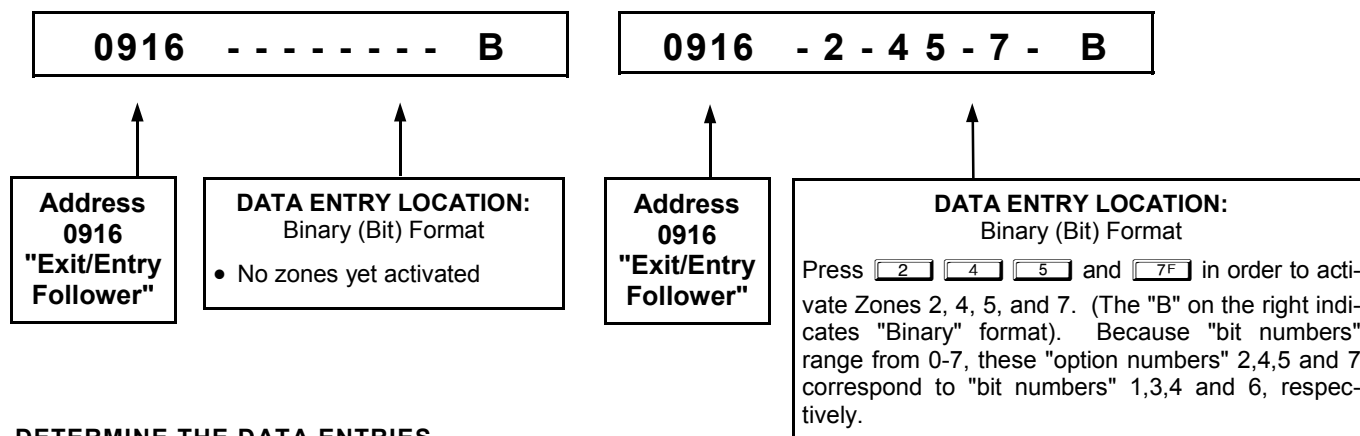
## ADDRESS MODE DISPLAYS

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-DXRP1/DXK1:** Program Zones 2, 4, 5 and 7 as *Exit/Entry Follower* Zones.

















### DETERMINE THE DATA ENTRIES

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

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

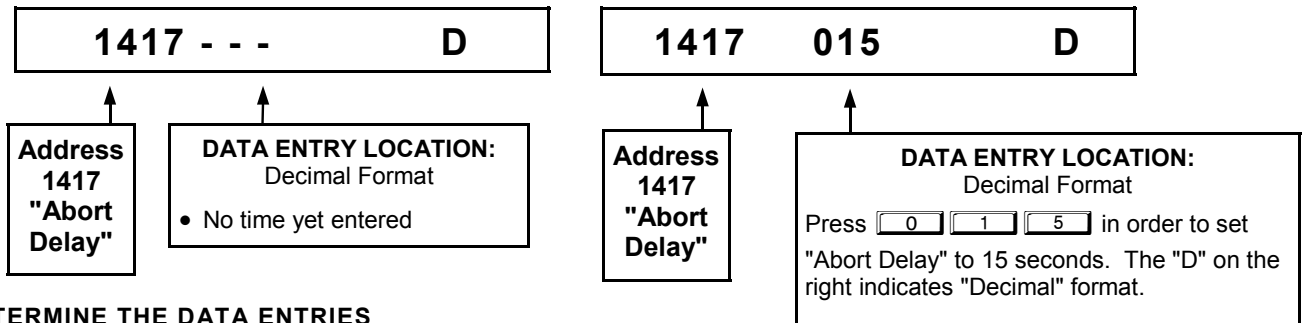
**PROGRAM THE DATA ENTRIES**

1. Enter the panel's Dealer Security Code, then press .
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES ("✓" or ).  
**NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using .
3. Press  to enter the Address Program Mode. Address "0000" will display.
4. Press     to access Address 0916. *The existing data will display and the cursor will advance to the data field.*
5. Press   . The numbers 6,7 and 8 will appear on the keypad display indicating the zones activated.
6. Press  to save. Address 0916 is now programmed with "6,7,8".
7. Press  and enter another 4-digit address to continue programming --or-- press  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-DXRP1/DXK1:** Program *Abort Delay* to be 15 seconds.












**DETERMINE THE DATA ENTRIES**

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

ABORT DELAY (sec.)	ADDRESS 1417		

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

**PROGRAM THE DATA ENTRIES**

1. Enter the panel's Dealer Security Code, then press .
2. Answer NO ("X" or ) to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES ("✓" or ). **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using .
3. Press  to enter the Address Program Mode. Address "0000" will display.
4. Press     to access Address 1417. *The existing data will display and the cursor will advance to the data field.*

vance to the data field.

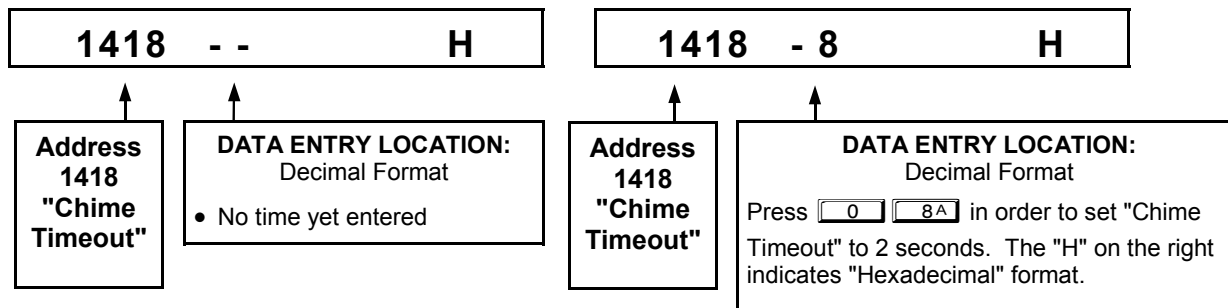
5. Press   . The numbers 015 will appear on the keypad display indicating the number of seconds entered.
6. Press  to save. Address 1417 is now programmed with a 15-second Abort Delay.
7. Press  and enter another 4-digit address to continue programming--or--press  to exit and resume normal keypad operation.

### 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-DXRP1/DXK1:** Program *Chime Timeout* to be 2 seconds.



#### DETERMINE THE DATA ENTRIES

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















CHIME TIMEOUT	ADDRESS 1418	
(1/4sec.)		

[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 .
2. Answer NO ("X" or ) to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES ("✓" or ). **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using .
3. Press  to enter the Address Program Mode. Address "0000" will display.
4. Press     to access Address 1418. *The existing data will display and the cursor will advance to the data field.*
5. Since you wish the timeout to be for 2 seconds (and 8 multiplied by ¼ second equals 2 seconds), press  . The numbers 08 will appear on the keypad display indicating the number of seconds entered.
6. Press  to save. Address 1418 is now programmed with a 2-second chime.
7. Press  and enter another 4-digit address to continue programming --or-- press  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  . To program 11 through 15, press   through  , respectively.

The displays will appear after a brief delay.

- Use  to toggle the cursor between the 4-digit address field and the data entry locations.
- Enter the address directly using the number buttons.
- The contents of the address will be read automatically. The cursor will advance to the data field. Enter the required data directly using the number buttons.
- IMPORTANT:** Press  to save the contents of each address.

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

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

EXIT DELAY (sec.)	ADDRESS 0000		

[Default = 060]

ENTRY DELAY 1 (sec.)	ADDRESS 0001		

[Default = 030]

ENTRY DELAY 2 (sec.)	ADDRESS 0002		

[Default = 030]

PGM2 Output Access Cntrl Timeout (sec.)	ADDRESS 1413		

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

ABORT DELAY (sec.)	ADDRESS 1417		

[Default = 030]

Select delay/timeout (0-255 sec.).

**EXIT/ENTRY DELAYS:** Apply only to zones programmed with the following options "Exit/Entry 1, Exit/Entry 2, Exit/Entry Follower". **NOTE:** Sensor Watch Time Options are similar to above, except in hours.

Press to save.

Sensor Watch Time (Hrs.)	ADDRESS 2050		

[Default = 024]

Report Cancel Window (min.)	ADDRESS 2055		

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

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

## SYSTEM DELAYS & TIMEOUTS (ADDRESS 1418-1419)

CHIME TIME (%sec.)	ADDRESS 1418		

[Default = 008 x ¼ sec. = 2 sec.]

AC Fail Report Delay (min.)	ADDRESS 1419		

[Default = 060]

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

1. Enter delay/timeout in corresponding address locations above.

**Note:** All entries for address 1418 are in quarter seconds (.25 seconds). Therefore, the default of 008 results in a 2 second timeout.

2. Press to save.

## SYSTEM OUTPUT TIMEOUTS (ADDRESS 1412 & 1414-1416)

<b>PGM2 Output</b>	<b>ADDRESS 1412</b>		
Timeout (min.)			

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

<b>Alarm Output</b>	<b>ADDRESS 1414</b>		
Timeout (min.)			

[Default = 015]

<b>Pulse Alarm Output</b>	<b>ADDRESS 1415</b>		
Timeout (min.)			

[Default = 015]

<b>PGM1 Output</b>	<b>ADDRESS 1416</b>		
Timeout (min.)			

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

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

1. Select delay/timeout (0-255 min.) from the table shown.
2. Enter in corresponding address locations above.
3. Press 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.

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

<b>No. Rings Before Pickup</b>	<b>ADDRESS 2059</b>		
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: 003-015. **NOTE:** Default is 15 Rings.
3. Press to save.

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

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

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

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

## PAGER FORMAT OPTIONS (ADDRESS 0546 & 0547)

<b>Leading Digits for Pager Format (1st Digit)</b>	<b>ADDRESS 0546</b>

<b>Leading Digits for Pager Format (2nd Digit)</b>	<b>ADDRESS 0547</b>

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

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

1. Enter in 1st and 2nd Leading Digits as shown (right nibble).
2. Valid entries are: 0-9. Press to save.



## SYSTEM OPTIONS (ADDRESS 0836-0871 & 2045)

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

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

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

[Default = blank (•) from address 0856-0863]

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

[Default = blank (•) blank (•) from address 0864-0871]

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 to save.

Global Ambush Code	ADDRESS 2045	
	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 1422) is selected and Address 2045 is left blank (•), then the 2-digit Global Ambush Code is "99". If "Enable Global Ambush Code" is selected and Address 2045 is **not** left blank (•), then the 2-digit Global Ambush Code is the two digits entered in address 2045.

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

Press to save.

## SYSTEM OPTIONS (ADDRESS 0872-0887)

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


[Default = blank (•) from address 0872-0879]

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

[Default = blank (•) blank (•) from address 0880-0887]

☞ 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  to save.

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

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

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

1424 System Options		
Default		Option
OFF	1	Automatic Interior Bypass/Easy Exit
	2	RESERVED
	3	RESERVED
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
ON	7	Enable Loop Supervision
OFF	8	Disable Code Required for Bypass (Enable EZ Bypass)

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

### FOOTNOTES

\*Address 1423: Default depends on Easy Menu Question : "EZ\_ZONE DOUBLING? Y/N". If yes, then [Default = 1]. If no, then [Default = blank (\*)].

\*\*To select "Line-Fault Test only when Armed", you must also select "Enable Line-Fault Test" at address 1423.

\*\*\*If "Enable Global Ambush Code" in Address 1422 is selected, then program the 2-digit "Global Ambush Code" in Address 2045. If Address 2045 is left blank (\*), then, the 2-digit "Global Ambush Code" will be "99".

\*\*\*\*If this feature is not selected, the E15 Lug will, by default, activate when the system is armed (all areas).

††For reference only and cannot be changed.

§This feature must be programmed in Fire Alarm applications.

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

1423 System Options		
Default*		Option
OFF*	1	Enable Zone Doubling (Zones 9-12)
OFF*	2	Wireless Trouble Activates Telco 1
OFF*	3	Wireless Trouble Activates Telco 3
OFF*	4	Enable Alarm Output on Telco Fail only when Armed
OFF*	5	Line-Fault Test only when Armed**
OFF*	6	Enable Line-Fault Test**
OFF*	7	Inhibit System Trouble Audible at Keypad
OFF*	8	Select Alarm Output for Keyfob Chirp

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

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

2054 System Options		
Default		Option
OFF	1	Enable TCP/IP Communications
ON	2	Enable EN501 User Code Access Level
	3	RESERVED
ON	4	Enable Display Time On Blanked Keypads
ON	5	Enable EN501 Grade 3 Operation
	6	RESERVED
ON	7	Enable 2-Count Swinger Shutdown
ON	8	Enable Keypad Blanking

## CS RECEIVER OPTIONS (ADDRESS 0460-0525)

<b>CS Receiver 1 Format</b>	<b>ADDRESS 0460</b>	
---------------------------------	---------------------	--

<b>CS Receiver 2 Format</b>	<b>ADDRESS 0482</b>	
---------------------------------	---------------------	--

<b>CS Receiver 3 Format</b>	<b>ADDRESS 0504</b>	
---------------------------------	---------------------	--

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 to save.

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

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

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

0505	CS Receiver Options - Telco 3	
Default		Option
OFF	1	1400Hz Handshake/Kissoff *
OFF	2	2300Hz Handshake/Kissoff *
OFF	3	Enable Zone Number on Pulse Alarm
OFF	4	Single Digit Only
OFF	5	Sum Check
OFF	6	3/1 with Extended Restores
OFF	7	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 (right nibble).

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

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

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

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

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

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

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

**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 to save.
3. Valid entries are: 1-9, B = , C = , D = 3 sec. pause, E = Wait for dial tone, F = Ignore location

## CS SUBSCRIBER ID OPTIONS (ADDRESS 0560-0667)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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


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

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

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

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

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

Enter 3 or 4 digits (depending on the CS receiver format) for each subscriber number from left to right. **NOTE:** Leave trailing boxes blank (\*). Valid entries are: 1-9, 0 and B-F. **NOTE:** A is not permitted. Press  to save.

## CS SYSTEM REPORTING OPTIONS (ADDRESS 0670-0705)

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

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

**CS SYSTEM REPORTING CODES:**

1. Enter in corresponding address location (left and right digits).  
**NOTE:** Left digit is the first digit and right digit is the second digit in a two digit CS receiver format.
2. Valid entries are: 1-9, 0 and B-F.  
**NOTE:** A is not permitted.
3. To disable a code leave boxes blank (\*).  
**NOTE:** Dark shaded data value box shows option not available.
4. Press to save.

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

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

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

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

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

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

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

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

**OPENING REPORT OPTIONS:**

1. Select the desired option by circling the data values for each digit (left and right).
2. Add the data values (ex: F=15=(1+2+4+8) from the selected options. See page 13).
3. Enter in address location (left and right digits).

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

0788	CS System Report Options	
Default		Option
OFF	1	Backup Report on Telco 1 & 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 (Pager Format)
OFF	7	Disable Wait for Handshake on Transmit
OFF	8	Disable Auto Dial Tone Detect

**CS SYSTEM REPORTING OPTIONS:**

1. Select the desired option entering the option number (1-8) for each digit.
2. Enter corresponding option number in address location.  
**NOTE:** Dark shaded data value box shows option not available.
3. Press 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.

## ZONE ANDING TIME WINDOW (ADDRESS 2061)

Zone ANDing Time Window (seconds)	ADDRESS 2061		

[Default = 060 ]

**Zone ANDing Time Window:** With Zone ANDing enabled, the system will go into alarm only if any two zones in a group are tripped within a specified period of time. With this address, this time window is adjustable between 1 and 255 seconds. The factory default is 60 seconds. **Note:** If the address is programmed to 0, the panel defaults to 60 seconds.

☞ 1. Enter digit only.

☞ 2. Valid entries are: 001-255. **NOTE:** Default is 60 seconds. Press  to save.

## KEYPAD UNBLANKING TIME WINDOW (ADDRESS 2060)

Keypad Un-blanking Time Window (seconds)	ADDRESS 2060		

[Default = 128 ]

**Keypad Unblanking Time Window:** If a keypad is Blanked / System event mode, enabling the keypad to Normal requires a Set / Unset code + Enter (level 2/3/4) to come alive. The keypad will stay alive (Normal) for 128 seconds (default) or for a time in a programmable EEPROM location in seconds. This location, 2060, contains a 3 digit decimal. During exit/entry delay all keypads will always come ALIVE (Normal).

☞ 1. Enter digit only.

☞ 2. Valid entries are: 001-255. **NOTE:** Default is 60 seconds. Press  to save.

## CLOCK ADJUSTMENTS (ADDRESS 2281)

2281	Clock Adjustments	
Default	Option	Option
OFF	1	Enable Daylight Saving Time
OFF	2	Clock Source (Internal Panel )*
OFF	3	Line Frequency--Enable 50Hz **
OFF	4	RESERVED
OFF	5	RESERVED
OFF	6	RESERVED
OFF	7	RESERVED
OFF	8	RESERVED

\*[Default = AC Source used]


\*\*[Default = 60Hz]

### **Clock Adjustments:**

☞ 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 rows indicate option not available.

☞ 3. Press  to save.

## CS ZONE REPORTING OPTIONS (ADDRESS 0720-0751)

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

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

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

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

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

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

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

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

ZONE REPORT CODE OPTIONS	
DATA ENTRIES	

**NOTE:** If "Zone Doubling" (Address 1423) is not enabled, then Zones 1-4 are included in the control panel and Zones 5-32 are wireless Zones. If "Zone Doubling" is enabled, then Zones 1-4 and 9-12 are included in the control panel; Zones 5 through 32 are available as wireless--however--Zones 9-12 would be ORed with the hardwired zones.

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

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

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

1. Select the desired Modem Code for each zone from the table shown.
2. Press to save.



## CS USER REPORTING OPTIONS (ADDRESS 0800-0835)

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

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

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

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

Enable Users to Report Opening and Closings	ADDR	USERS 65 → 68								ADDR	USERS 69 → 76							
		U65	U66	U67	U68	U69	U70	U71	U72		U73	U74	U75	U76				
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
Enable Opening Report, Telco 1	0808									0809								
Enable Closing Report, Telco 1	0817									0818								
Enable Opening Report, Telco 3	0826									0827								
Enable Closing Report, Telco 3	0835									0836								

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

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

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

1. Select the desired option entering the option number (1-8) for each digit.
2. At the keypad, enter corresponding option number in address location. **NOTE:** Dark shaded data value box shows option not available.
3. Press to save.

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## AREA BELL CONTROL OPTIONS (ADDRESS 1473-1488)

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

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

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

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

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

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

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

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

1481 PGM1 Output Turns Off upon Disarm		
Default		Option: <b>Disarming Area 1:</b>
ON	1	Area 1 PGM1 Output Silenced
OFF	2	Area 2 PGM1 Output Silenced
OFF	3	Area 3 PGM1 Output Silenced
OFF	4	Area 4 PGM1 Output Silenced

1482 PGM1 Output Turns Off upon Disarm		
Default		Option: <b>Disarming Area 2:</b>
ON	1	Area 1 PGM1 Output Silenced
OFF	2	Area 2 PGM1 Output Silenced
OFF	3	Area 3 PGM1 Output Silenced
OFF	4	Area 4 PGM1 Output Silenced

1483 PGM1 Output Turns Off upon Disarm		
Default		Option: <b>Disarming Area 3:</b>
ON	1	Area 1 PGM1 Output Silenced
OFF	2	Area 2 PGM1 Output Silenced
OFF	3	Area 3 PGM1 Output Silenced
OFF	4	Area 4 PGM1 Output Silenced

1484 PGM1 Output Turns Off upon Disarm		
Default		Option: <b>Disarming Area 4:</b>
ON	1	Area 1 PGM1 Output Silenced
OFF	2	Area 2 PGM1 Output Silenced
OFF	3	Area 3 PGM1 Output Silenced
OFF	4	Area 4 PGM1 Output Silenced

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



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

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

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

### OUTPUT TURNS OFF UPON DISARM:

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

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

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

Enable Keypad Type & Activation	ADDR	Enable Keypad Type	Keypad Area Assignment
		Blank (*) = Burg Keypad 2 = Wizard	Blank (*) = Disabled 1 = Area 1 2 = Area 2 3 = Area 3 4 = Area 4
Keypad 1	1425		
Keypad 2	1426		
Keypad 3	1427		
Keypad 4	1428		
Keypad 5	1429		
Keypad 6	1430		
Keypad 7	1431		

[Default = blank (\*) from address 1425-1431]

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

**NOTE:** See Keypad Configuration Mode.

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

Enable Keypad Options	ADDR	Enable Keypad Options							
		Keypad Fire	Keypad Aux.	Keypad Panic	RSRVD	Ambush	Easy Arming	Panel Access	RSRVD
		1	2	3	4	5	6	7	8
Keypad 1 Options	1440								
Keypad 2 Options	1441								
Keypad 3 Options	1442								
Keypad 4 Options	1443								
Keypad 5 Options	1444								
Keypad 6 Options	1445								
Keypad 7 Options	1446								

[Default = blank (\*) from address 1440-1446]

- 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 to save.

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## AREA ARMING OPTIONS (ADDRESS 1469-1472)

Priority Arming Area 1	ADDRESS 1469

[Default = blank (\*)]

Priority Arming Area 2	ADDRESS 1470

[Default = blank (\*)]

Priority Arming Area 3	ADDRESS 1471

[Default = blank (\*)]

Priority Arming Area 4	ADDRESS 1472

[Default = blank (\*)]

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

PRIORITY ARMING/AREA 2	
DATA ENTRIES	OPTION
blank (*)	Not Used
1	Enabled

PRIORITY ARMING/AREA 3	
DATA ENTRIES	OPTION
blank (*)	Not Used
1	Enabled

PRIORITY ARMING/AREA 4	
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 to save.

## ZONE INTEGRATION TIME (ADDRESS 2062)

Zone Integration Time (x 10ms)	ADDRESS 2062		

[Default = 075 x 10ms]

**Zone Integration Time:** The panel Zone Integration (Response) time can be adjusted to a new global value. Address 2062 accepts three decimal digits which are multiplied by 10 milli-seconds to get a new value that replaces the default value of 750ms. If the location is set to 000, the system will default to 750ms internally. The maximum value is 255. If a value above 255 is entered the system will display 000 to request a re-entry.

**Note:** Only the panel zones' integration times are programmable. In addition, zone responses are enabled only when armed.

1. Enter digit only.
2. Valid entries are: 001-750. **NOTE:** Default is 750ms (075 x 10ms).
3. Press to save.

## ZONE OPTIONS - ZONES 1 TO 16 (ADDRESS 0900-1016)

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	0900									0964									
⊕ Priority	0901									0965									
Priority with Bypass	0902									0966									
Auto-Bypass	0903									0967									
⊕ Selective Bypass	0904									0968									
Keyswitch Arming	0905									0969									
Auto-Bypass Re-entry	0906									0970									
Pre-Alarm Warning	0907									0971									
Never Arm	0908									0972									
24-Hour Zone	0909									0973									
⊕ Alarm Output	0910									0974									
⊕ Pulsed Alarm Output	0911									0975									
PGM1 Output	0912									0976									
PGM2 Output	0913									0977									
⊕ Entry/Exit 1	0914									0978									
⊕ Entry/Exit 2	0915									0979									
⊕ Exit/Entry Follower	0916									0980									
⊕★ Auto Reset	0917									0981									
⊕★ Swinger Shutdown	0918									0982									
⊕ Chime	0919									0983									
Abort Delay	0920									0984									
Power-up Delay	0921									0985									
Day Zone Open	0922									0986									
Day Zone Short	0923									0987									
Alarm on Day Zone	0924									0988									
⊕ Alarm Telco 1	0925									0989									
Alarm Restore 1	0926									0990									
Trouble Telco 1	0927									0991									
Trouble Restore 1	0928									0992									
Alarm Telco 3	0929									0993									
Alarm Restore 3	0930									0994									
Trouble Telco 3	0931									0995									
Trouble Restore 3	0932									0996									
No EOL Resistor	0933									0997									
Trouble on Open	0934									0998									
Trouble on Short	0935									0999									
⊕ Zone Area 1	0936									1000									
Zone Area 2	0937									1001									
Zone Area 3	0938									1002									
Zone Area 4	0939									1003									
Interior (Stay) Bypass	0940									1004									
Keypad Sounder on Alarm	0941									1005									
⊕ 2-Wire Smoke Detectors	0942									1006									
⊕ Fire	0943									1007									
Fire Alarm Verification	0944									1008									
RESERVED	0945									1009									
Zone ANDing Group 1	0946									1010									
Zone ANDing Group 2	0947									1011									
Zone ANDing Group 3	0948									1012									
Zone ANDing Group 4	0949									1013									
Sensor Watch	0950									1014									
RESERVED	0951									1015									
Chime 2	0952									1016									

**NOTES:**

§ 50ms Loop Response only available for zones 1-4. If Zone Doubling is enabled, Zones 9-12 will follow the loop response programming for Zones 1-4. For all other Zones, loop response is determined by jumpers on the GEM-EZM8 and/or keypad configuration on the GEM-DXRP1 or GEM-DXK1.


⊕ 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  to save.

## ZONE OPTIONS - ZONES 17 TO 32 (ADDRESS 1029-1144)

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

† 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.

**DEFAULTS:** The zone options indicated are automatically set after exiting the Easy Menu Driven Mode. *Priority*, *Selective Bypass*, *Alarm Output*, *Auto Reset*, *Swinger Shutdown* and *Zone Area 1* are enabled for the total number of zones entered in "## OF ZONES IN AREA1 ENTER ## ZONES". *Alarm Telco 1* is enabled for the zone number(s) entered in "REPORT ALL ZONES TO CENTRAL ZONES? Y/N". *Entry/Exit 1* and *Chime* are enabled for the zone number(s) entered in "ENTRY/EXIT ZONES ENTER ZONE ##". *Exit/Entry Follower* and *Interior Bypass* are enabled for the zone number(s) entered in "INTERIOR ZONES ENTER ZONE ##". *Pulse Alarm Output* is enabled for the zone number(s) entered in "FIRE ZONES ENTER ZONE ##". *Fire* is enabled for the zone number(s) entered in "FIRE ZONES ENTER ZONE ##".



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## EXTERNAL RELAY CONTROL (ADDRESS 1489-1648)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**TO PROGRAM,  
SEE NEXT PAGE**



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

**To program, follow the 5 steps below.**

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

**STEP 1**

**RELAY # OPTIONS:** The LIB-P432EX supports 16 external relays from Relay Module RM3008. Multiple events may be "mapped" to each relay, up to a maximum of 32 events.

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

**STEP 2**

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

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

**STEP 3**

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

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

**STEP 4**

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

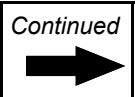
Select 2-digit **Event ID** from **Table 4** (on next page); enter in corresponding address locations (left and right digit).

**STEP 5**

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

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

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






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

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


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

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

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

1. Select the number of receivers from the table shown.
2. Enter number in address location shown.
3. Press  to save.

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

1. Select timer delay from the table shown. Timers are programmed in increments of 30 minutes each. Valid entries are [3] through [F] (90 minutes-450 minutes).
2. Enter in corresponding address locations below (right nibble).
3. Press  to save.

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

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

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

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

## CLEAR PROGRAM OPTIONS (ADDRESS 2285 & 2286)

2285 XX

H

### ***Clear Dealer Program (Erases Dealer Program)***



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

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

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

2286 XX

H

### ***Cold Start (Erases Entire Program)***



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

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

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

## USER PROGRAM MODE





### **PRELIMINARY INFORMATION**

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

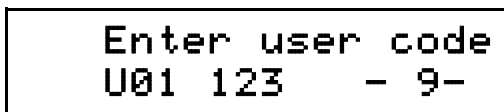
- The Program Mode cannot be accessed while the communicator is transmitting except during the first three minutes after power-up.
- After entering codes or data, press the save button. *Data will not be stored into memory unless this button is pressed.*
- If the keypad is in the Program Mode and no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

For ease of programming, it is recommended that a GEM-DXRP1 or GEM-DXK1 be used. For Programming Instructions with the GEM-DXRP2 / GEM-DXK2, GEM-DXRP3 / GEM-DXK3 and the GEM-DXK4RF series, see W11771.

## ACCESSING USER PROGRAM MODE

1. Press 
  - ← Existing Panel (Any Code with User Program Option Enabled)
  - New Panel (Default User Code = 123)
2. Press **PRIOR** ("X" or ) until "ACTIVATE PROGRAM Y/N" appears on LCD screen.
3. Press **YES** ("✓" or ) to enter User Program Mode.
4. Press **RESET** () to exit User Program Mode when finished.


## USER CODES





GEM-DXK1 Keypad (Direct Entry)


Up to 64 User Codes may be programmed.



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

Use the  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   button.

Press the  button to save the code in memory.

Repeat this procedure for each user. To proceed to Zone-Description programming, press the **NEXT** ("✓" or ) button or the **PRIOR** ("X" or ) button.

**To Program User Codes**

1. Set Cursor Position using the  button.
2. Enter 2-digit User Number (01-64) 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  button.

Programming User Codes with GEM-DXK1 Keypad



## ZONE DESCRIPTIONS (GEM-DXRP1 / GEM-DXK1 KEYPADS)

01-

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

PRESS:	CHARACTERS DISPLAYED IN SEQUENCE	HOLD  AND PRESS:	CHARACTERS DISPLAYED IN SEQUENCE
	ABC1		abc1
	DEF2		def2
	GHI3		ghi3
	JKL4		jkl4
	MNO5		mno5
	PQR6		pqr6
	STU7		stu7
	VWX8		vwx8
	YZ90		yz90
	(SPACE) * . ( ) , / : ? #		(Reserved)

Press to move cursor right.

Press to move cursor left.

### Notes:

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

Press to save.

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

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 ("") or ) 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-DXRP1/GEM-DXK1 keypad (version 9A or greater) must be used and "Enable Keypad Time/Date Display" (Address 1420) must be enabled.

# KEYPAD CONFIGURATION MODE

This section will focus on configuring the GEM-DXRP1 or GEM-DXK1 Keypads. If there is more than one keypad in the system, we recommend that either a GEM-DXRP1 or a GEM-DXK1 keypad be used for programming.

## KEYPAD INSTALLATION

Several types of keypads may be used with the LIB-P432EX: The GEM-DXRP1 / GEM-DXK1, the GEM-DXRP2 / GEM-DXK2, the GEM-DXRP3 / GEM-DXK3, and the GEM-DXK4RF series (see WI1771). 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-DXRP1/GEM-DXK1** - is a 2-line combination fire/burglary/access keypad capable of supporting a PGM output. The GEM-DXRP1 or GEM-DXK1 is recommended for programming. See "Important Note" on page 2 for more information regarding the buttons on the GEM-DXRP1/GEM-DXK1 keypads.







## CONFIGURING THE KEYPADS

A total of up to seven (7) keypads may be connected to the panel. GEM-DXRP1 / GEM-DXK1, the GEM-DXRP2 / GEM-DXK2, the GEM-DXRP3 / GEM-DXK3, and the GEM-DXK4RF series keypads require different configuration procedures, as described below and in WI1771.

### Configuring the GEM-DXRP1/GEM-DXK1 Keypad

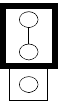
Each GEM-DXRP1/GEM-DXK1 keypad must be configured for (a) keypad tactile beep; (b) entry sounder; (c) keypad address and (d) compatibility number.

#### To enter the Keypad Configuration Mode:

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

NORMAL

KEYPAD  
CONFIGURE



Keypad Beep

ON

### 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  button (the  button will toggle the tactile beep on and off). Press  to continue or press  to exit.

Entry Sounder

ON

### Entry Sounder


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

Keypad Address




01

### Keypad Address

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

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

To assign the keypad number, proceed as follows:

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

New Compat #    0000
-------------------------

**Compatibility Number (Not Applicable)**

THIS FEATURE IS **NOT** COMPATIBLE WITH THE LIB-P432EX CONTROL PANEL. **DO NOT CHANGE THIS SETTING.**

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

EZM Address <span style="float: right;">01</span>
--

**EZM Address**

THIS FEATURE IS **NOT** COMPATIBLE WITH THE LIB-P432EX CONTROL PANEL. **DO NOT CHANGE THIS SETTING.**

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

Zone Response <span style="float: right;">00</span>
--

**Zone Response**

THIS FEATURE IS **NOT** COMPATIBLE WITH THE LIB-P432EX CONTROL PANEL. **DO NOT CHANGE THIS SETTING.**

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

Program Control Message #    ?
-----------------------------------

**Program Control Message (Not Applicable)**

THIS FEATURE IS **NOT** COMPATIBLE WITH THE LIB-P432EX CONTROL PANEL.

Press the  button to continue (the display will loop back through selections, for changes) or press the  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 - 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									

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

**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 1-32**

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

**Characters Available for Zone Descriptions**

!@#\$%^&\*()\_+!|{|}[]`.,.<>?  
 1234567890  
 abcdefghijklmnopqrstuvwxyz  
 ABCDEFGHIJKLMNOPQRSTUVWXYZ

**Dealer Code:**

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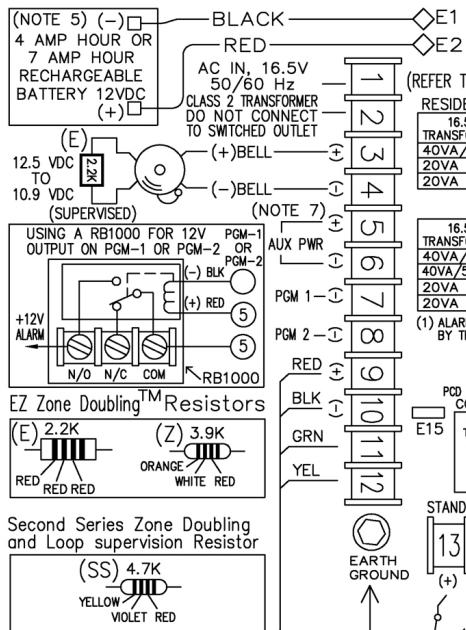
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# LIB-P432EX WIRING DIAGRAM



## LIB-P432EX WIRING DIAGRAM

(REFER TO OPERATION AND INSTALLATION INSTRUCTIONS W11691)

RESIDENTIAL AND COMMERCIAL BURGLARY

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

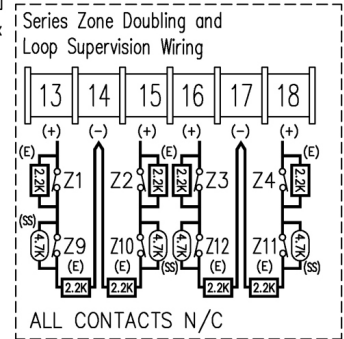
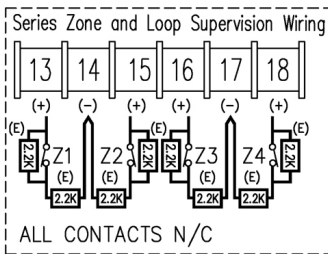
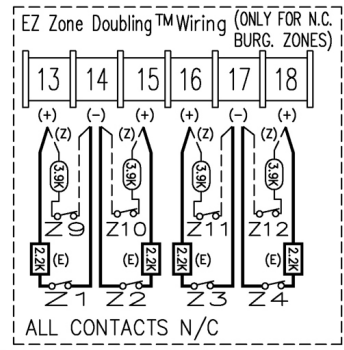
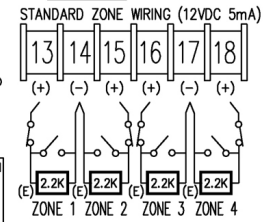
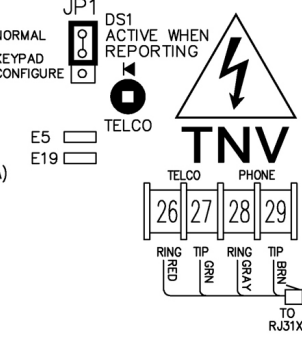
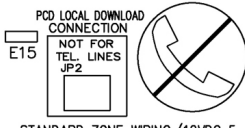
**NAPCO** REFER TO INSTALLATION INSTRUCTIONS.

This equipment must be installed in accordance with local regulations.

RESIDENTIAL FIRE

16.5V TRANSFORMER	STANDBY BATTERY	COMBINED STANDBY CURRENT	ALARM CURRENT	STANDBY CURRENT TIME
40VA/50VA	7AH	120mA	520mA(1)	24 HOURS
40VA/50VA	2-7AH	360mA	280mA(1)	24 HOURS
20VA	7AH	120mA	360mA(1)	24 HOURS
20VA	2-7AH	360mA	120mA(1)	24 HOURS

(1) ALARM CURRENT CAN BE INCREASED BY REDUCING STANDBY CURRENT BY THE SAME AMOUNT.



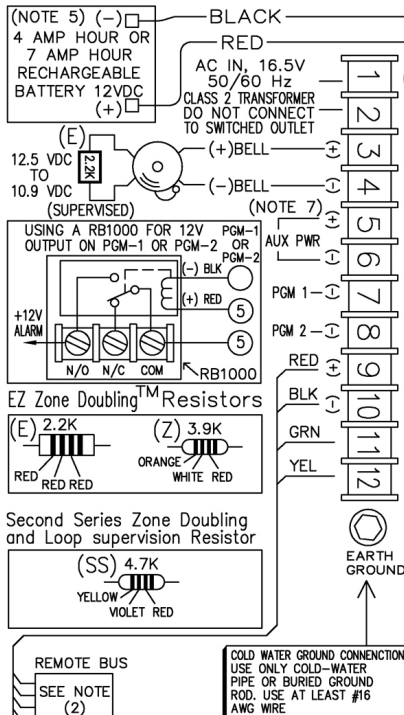
- NOTES:
- ALARM CURRENT CAN BE INCREASED BY REDUCING STANDBY CURRENT BY THE SAME AMOUNT.
  - THE FOLLOWING DEVICES MAY BE PLACED ON THE REMOTE BUS:
 

GEM-RP1CAE2, GEM-RP2ASE, GEM-RP3DGT, GEM-RP2ASE2	GEM-RECV96	DX1, DX2, DX3
GEM-K1CA, GEM-K2AS, GEM-K3DGT, GEM-K4, GEM-K4RF	GEM-DXK432RF	DXK4RF-433, DXK4RF-319
GEM-DXRP1, GEM-DXRP2, GEM-DXRP3	GEM-DK1CA	LIB-DXK432RF
GEM-DXK1, GEM-DXK2, GEM-DXK3		LIBRA-RECV SERIES RECEIVERS
GEM-X10		RM3008
  - COMBINED STANDBY CURRENT = KEYPAD CURRENT + AUX CURRENT + PGM1 AND PGM2 CURRENT.
  - UNIT INTENDED TO BE MOUNTED VERTICAL ON WALL.
  - 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 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.
  - FOR PROGRAM OF FIRE DETECTION DEVICES REFER TO W11691.
  - INTRUDER & HOLD UP ALARM SYSTEM SUITABLE FOR EN50131-1 INSTALLATIONS.  
ENVIRONMENTAL CLASS: 3  
GRADE: 3

LA2744A



# LIB-P432EXT WIRING DIAGRAM



## LIB-P432EXT WIRING DIAGRAM

(REFER TO OPERATION AND INSTALLATION INSTRUCTIONS W11691)



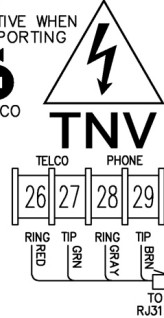
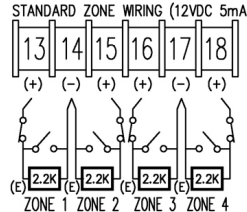
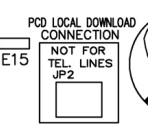
REFER TO INSTALLATION INSTRUCTIONS.

RESIDENTIAL AND COMMERCIAL BURGLARY					
16.5V TRANSFORMER	STANDBY BATTERY	COMBINED STANDBY CURRENT	ALARM CURRENT	STANDBY CURRENT TIME	STANDBY TIME
40VA/50VA	7AH	650mA	2.0A	4 HOURS	4 HOURS
20VA	4AH	500mA	2.0A	4 HOURS	4 HOURS
20VA	7AH	500mA	2.0A	6 HOURS	6 HOURS

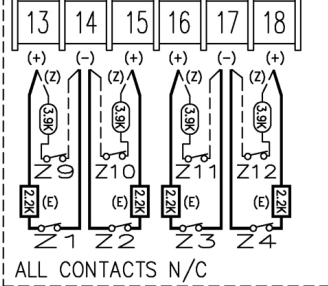
RESIDENTIAL FIRE					
16.5V TRANSFORMER	STANDBY BATTERY	COMBINED STANDBY CURRENT	ALARM CURRENT	STANDBY CURRENT TIME	STANDBY TIME
40VA/50VA	7AH	120mA	520mA(1)	24 HOURS	24 HOURS
40VA/50VA	2-7AH	360mA	280mA(1)	24 HOURS	24 HOURS
20VA	7AH	120mA	360mA(1)	24 HOURS	24 HOURS
20VA	2-7AH	360mA	120mA(1)	24 HOURS	24 HOURS

(1) ALARM CURRENT CAN BE INCREASED BY REDUCING STANDBY CURRENT BY THE SAME AMOUNT.

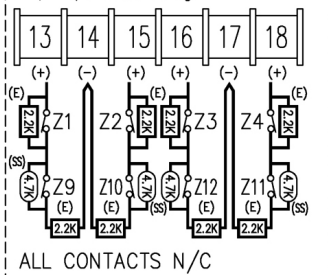
This equipment must be installed in accordance with local regulations.



### EZ Zone Doubling™ Wiring (ONLY FOR N.C. BURG. ZONES)



### Series Zone Doubling and Loop Supervision Wiring



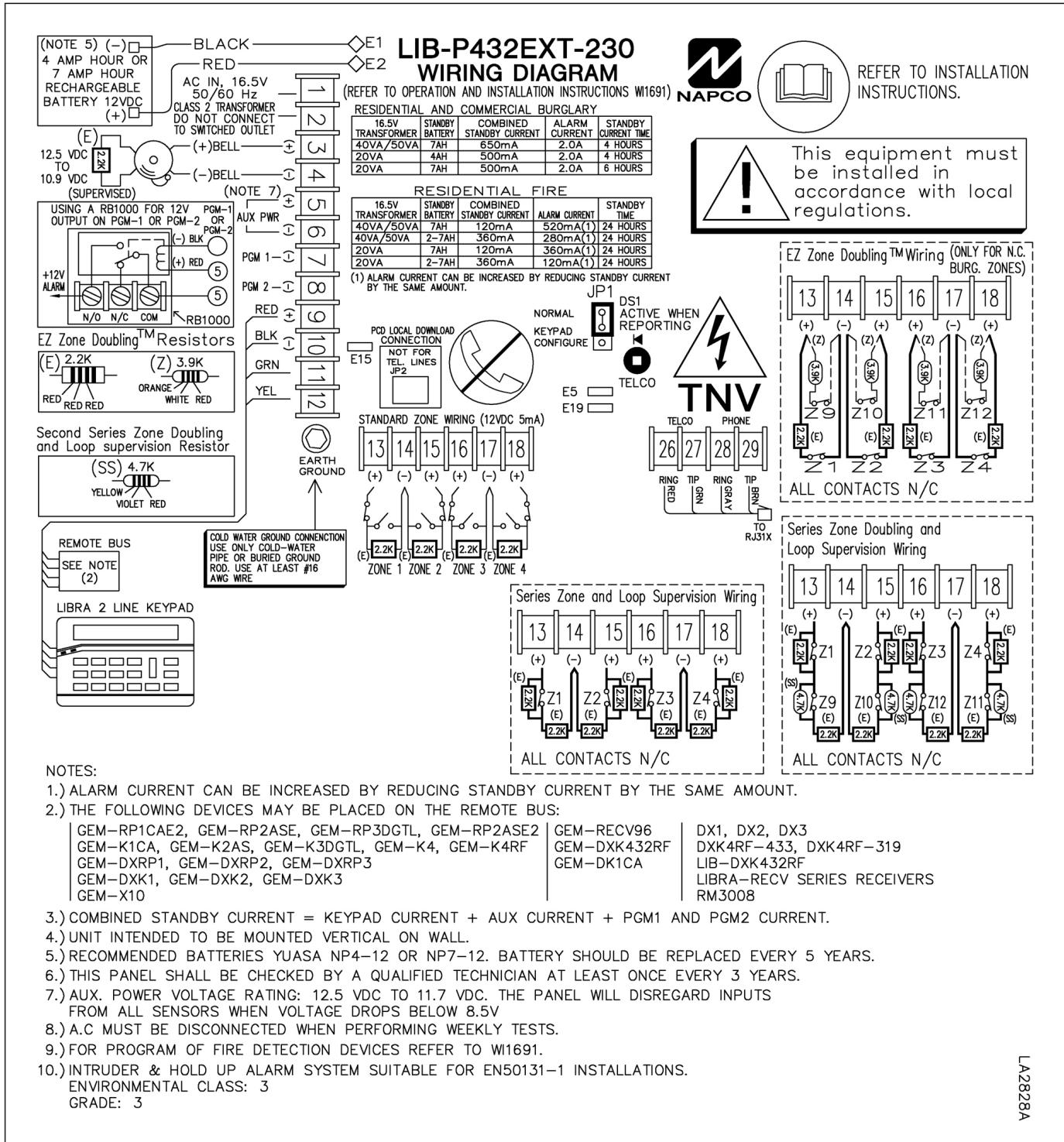
#### NOTES:

- ALARM CURRENT CAN BE INCREASED BY REDUCING STANDBY CURRENT BY THE SAME AMOUNT.
- THE FOLLOWING DEVICES MAY BE PLACED ON THE REMOTE BUS:
 

GEM-RP1CAE2, GEM-RP2ASE, GEM-RP3DGT, GEM-RP2ASE2	GEM-RECV96	DX1, DX2, DX3
GEM-K1CA, GEM-K2AS, GEM-K3DGT, GEM-K4, GEM-K4RF	GEM-DXK432RF	DXK4RF-433, DXK4RF-319
GEM-DXRP1, GEM-DXRP2, GEM-DXRP3	GEM-DK1CA	LIB-DXK432RF
GEM-DXK1, GEM-DXK2, GEM-DXK3		LIBRA-RECV SERIES RECEIVERS
GEM-X10		RM3008
- COMBINED STANDBY CURRENT = KEYPAD CURRENT + AUX CURRENT + PGM1 AND PGM2 CURRENT.
- UNIT INTENDED TO BE MOUNTED VERTICAL ON WALL.
- 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 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.
- FOR PROGRAM OF FIRE DETECTION DEVICES REFER TO W11691.
- INTRUDER & HOLD UP ALARM SYSTEM SUITABLE FOR EN50131-1 INSTALLATIONS.  
 ENVIRONMENTAL CLASS: 3  
 GRADE: 3

LA2827A

# LIB-P432EXT-230 WIRING DIAGRAM



# NOTES



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