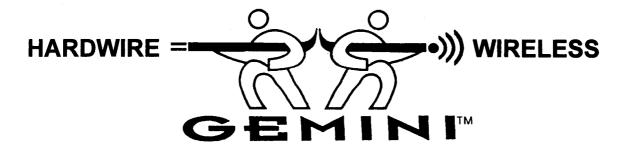


# PROGRAMMING INSTRUCTIONS

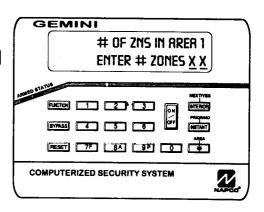


# G E M - P 1 6 3 2 CONTROL PANEL/COMMUNICATOR

#### **Quick Start:**

- 1. Refer to the wiring diagram, connect zone and keypad wiring.
- 2. Connect AC power and battery.
- 3. Install a keypad onto the system.
- 4. Configure the keypad (see page 40).

5.	Acccess Press	the Eas	y Menu Driven (Dealer Program) Mode:  5 6 7F 8A 9P FUNCTION  Dealer Code
	Press	PP:IOR/NO	Until "RCTIPATE PROGRAกี Y/ก" (GEM-RP1CAe2) or "TURNON PROG Y/ก" (GEM-RP2ASe2) appears on LCD screen.
	Press	NEXT/YES	to Enter Dealer Program Mode (see page 6)



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Refer to accompanying GEM-P1632 Installation Instructions (WI808) for installation information.

NOTE: THESE PROGRAMMING INSTRUCTIONS ARE INTENDED AND WRITTEN FOR THE PROFESSIONAL INSTALLER HAVING SUITABLE EXPERIENCE AND INSTALLATION EQUIPMENT. THE UNIT IS DESIGNED TO BE PROGRAMMED USING AN IBM-COMPAT-IBLE COMPUTER WITH NAPCO PCD3000 SOFTWARE. AFTER PROGRAMMING, BE SURE TO RUN THE PCD3000 ERROR-CHECK UTILITY TO GUARD AGAINST PROGRAMMING CONFLICTS FOR THE TYPE OF SERVICE SELECTED FOR THE INSTALLATION.





# SYSTEM PROGRAMMING OPTIONS

### INTRODUCTION

The GEM-P1632 control panel may be programmed by various means, each of which will be covered in detail in the sections that follow. Keypad displays shown first are for a GEM-RP1CAe2, the recommended keypad for programming, then for the GEM-RP2ASe2. The GEM-RP2ASe2 keypad functions similarly; however, because of its reduced display capabilities, messages are abbreviated and will scroll through two or more screens. Zone descriptions *cannot* be programmed using a GEM-RP2ASe2 keypad.

- **Downloading From a Computer.** The is the preferred method. The panel may be downloaded from (or uploaded to) an IBM PC-compatible computer, with a 386 (or higher) microprocessor, either locally or remotely. Napco's PCD3000 Quickloader software, Version Update 3.26 or later 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, zone doubling, number of fire zones (both 4-wire and 2-wire), central station reporting, number of entry/exit zones, number of interior 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 key fob transmitters and zone descriptions. 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 done 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 or 
  ☐ TESET 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 and Zone Descriptions.

### DOWNLOADING FROM A COMPUTER

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



#### Local Downloading

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

For a 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.** 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 then press the button or the YES (IMPRIOR) 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



## D

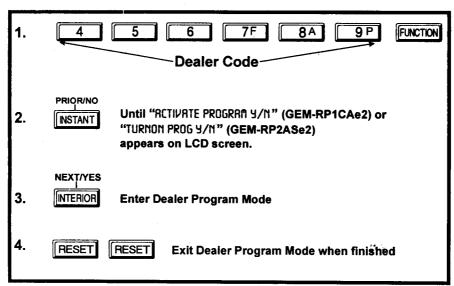
EALER	PROGRAM -	PRELIMINARY	INFORMATION	

- Only Keypad #1 may be used for programming, however this keypad may be located in any area.
- The Default Dealer Code is 4 5 6 7F 8A 9P. Use this code to enter the Dealer Program Mode to program a custom Dealer Code, which replaces the Default Dealer Code. If you clear your Dealer Code, use the Default Dealer Code once again to enter programming
- After entering codes or data, press the save 🕎 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. Silence the sounder by pressing the \*\* button to continue, or pressing the \*\* button to exit.

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

If a GEM-RP2ASe2 is used, configure address jumpers as Keypad #1 (see Configuring the GEM-RP2ASe2 Keypad.) Use the witten to manually scroll through each selected option and at the end of each programming line.

## ACCESSING DEALER PROGRAM MODE



## CUSTOMIZING A DEFAULT PROGRAM

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

If the number of zones in area 1

- Fire)
- reporting features (telephone number, account number, receiver format)

If the number of keypads in area 1

f rf transmitter information (zone, RF ID number, etc.)

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

NEW PANELS: The custom default program may be created for new panels only. Once the panel has been programmed by any means, the number of areas, zones and keypads 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 RESET to enter the Direct Address Program Mode; (b) access Location 1196 (Clear Program); (c) press



A. GEM-RP1CAe2 Keypad

To create your customized default program using a GEM-RP1CAe2 keypad, enter the following parameters and record your information on the Easy Menu Programming Worksheet at the back of this manual.

#	0 F	Z	N 5	IN	RR	?E	R	1
EI	TE	R	#	Z 0	NE	5		_

(Direct Entry)

Number of Zones in Area 1 (Appears for New Panel Only)

Directly enter the number of zones to be programmed for Area 1. Valid entries are from 01 to 32. Directly enter each zone number, including leading zeros. Use number buttons 1 through 99. NOTE: Press

the button for a zero. 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 [2] to save. Press NEXT (INTERIOR) to proceed.

NOTE: If you are programming a 2 Area system, enter the total number of zones required for Areas 1 & 2. The Direct Address Program Mode can then be used to remove zones from Area 1 and place them in Area 2. See Zone Options. If Programming a Wireless Only system, or using wireless only on Zones 9-32, enter the total number of zones in system. Enter the transmitter points in the RF Transmitter section of the Easy Menu Driven Programming Mode.

## Panel Zone Doubling (Appears for New Panel Only)

EZ ZONE DOUBLING

(Press YES or NO)

ENRBLED?

If the number of zones entered was 16 or less, press YES (MTERIOR) to effectively double the capacity of the control panel's hard wired zones from 8 to 16. The 16 zones will no longer be EOL zones, but will be designated for Normally Closed devices only. The terminal for Zone 1 will now support

Zones 1 and 9 with the use of the supplied EZ Zone Doubling™ resistors, E & Z supplied. (Refer to Wiring Diagram and Installation Instructions). If Panel Zone doubling is not desired, press NO ([INSTANT]).

## FIRE ZONES ENTER ZONE #

(Direct Entry)

## Fire Zones in Area 1 (Appears for New Panel Only)

Enter the number of any zones which are to be used as Fire Zones (both 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 NEXT (MTEROR) to proceed.

NOTE: If you are programming a 2 Area system, enter the total number of zones required for Areas 1 & 2. The Direct Address Program Mode can then be used to remove zones from Area 1 and place them in Area 2. See Zone Options.

#### 2-WIRE FIRE **ZNS** ENTER ZONE #

(Direct Entry)

#### 2-Wire Fire Zones in Area 1 (Appears for New Panel Only)

Enter the number of any Fire Zones (from previous question) which are to be used with 2-wire smoke detectors. The only valid entries are 07 and 08. Directly enter each zone number, including leading zeros. Press 🔀 to save, and then repeat for any additional zone(s).

NOTE: Only zones which have been designated as Fire Zones in the prior question may be programmed as 2 Wire Fire zones. Press NEXT (NTEROR) to proceed. NOTE: JP3 must be set to "2-WF" position for 2-wire fire zones (refer to Installation Instructions).

REPORT ALL ZONES TO CENTRAL? Y/N

(Press YES or NO)

Local or Central Station Reporting System (Appears for New Panel Only)

Press YES (INTERIOR) for all zones to report; press NO (INSTANT) for no zones to report (LOCAL SYSTEM).

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ENTRY/EXIT ZONES ENTER ZONE #	Exit/Entry Zones in Area 1 (Appears for New Panel Only)  Directly enter the number of any zones which are to be used as Entry/Exit zones. Valid entries are from 01 to 32. Directly enter each zone number,
(Direct Entry)	including leading zeros. Use number buttons 1 through 9P NOTE:
	Press the 🔼 button for a zero. Press 🗒 to save and then repeat for
any additional zone(s). <b>Press</b> NEXT (NTERIOR) to pro <b>NOTE:</b> Chime will automatically be programmed number of zones required for Areas 1 & 2. The D 1 and place them in Area 2. See Zone Options.	for all E/E zones. If you are programming a 2 Area system, enter the total irect Address Program Mode can then be used to remove zones from Area
	Interior Zones in Area 1 (Appears for New Panel Only)
INTERIOR ZONES ENTER ZONE #	Directly enter the number of any zones which are to be used as Interior Zones. Valid entries are from 01 to 32. Directly enter each zone number,
(Direct Entry)	including leading zeros. Use number buttons 1 through 9 NOTE:  Press the 0 button for a zero. Press to save and then repeat for
	ceed. Ily programmed as Exit/Entry Follower zones. If you are programming a 2 pured for Areas 1 & 2. The Direct Address Program Mode can then be used
# AREA 1 KEYPADS ENTER # KPS	Number of Keypads in Area 1 (Appears for New Panel Only)  Directly enter the number of Keypads to be installed in Area 1. Valid entries are from 01 to 07. Directly enter the number of keypads, including
(Direct Entry)	leading zeros. Use number buttons  through  P. NOTE: Press
the button for a zero. Press to save. Pre in Direct Address Programming. See Keypad Op	ess NEXT (MIERIOR) to proceed. <b>NOTE:</b> Area 2 keypads can only be assigned stions.
	Central Station Receiver 1 Telephone Number
CENTRAL PHONE #	Using number buttons, enter telephone number of up to 16 digits including
(Direct Entry)	prefix letters, if necessary, for receiver 1. Enter digits 1–9; enter ** 0
(Direct Entry)	for a zero and * 1 through * 5 for letters B–F, respec-
tively. <b>NOTE:</b> Pre-Dial Delay = "D"; Dial-Tone De	etection = "E". Pressing the  button will produce a blank space (•).
Press to save, then press NEXT (NTERIOR) to proonly 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. Use number buttons 1–9.  NOTE: Press the
NOTE: Central Station Receiver 2 and 3 Accoun	nt Numbers can only be entered in Direct Address Programming. See CS

Reporting Options.



# SEE WI FOR INFO RCVR FORMAT (0)

(Direct entry)

Central S	Station	Receiver	1 Format
-----------	---------	----------	----------

From t	he table	e below	, enter	the	central	station's	receiver	format.	Use
numbe	r button	s for dig	gits. NC	TE:	Press	the 🔲	button fo	or a zero	and

press *	ofor a	blank space (	). Enter	* 1	Ithrough	* 4

for B through E. Press to save. Press NEXT (NTERIOR) 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

DATA ENTRY	CS RECEIVER 1 FORMAT
5	Universal High Speed
В	SIA
С	Ademco Point ID
E	Pager

NOTE: Central Station Receiver 2 and 3 Formats can only be entered in Direct Address Programming. See CS Receiver Options.

	R_USER		_
U O 1	123	1 -	
Hoor #	Llear Code	Aron 1	Aron 2

Enter User Codes (Press the FUNCTION button to set cursor.) For default program, enter up to 32 User Codes, with Area 1 and Area 2 Options.

User # Press the FUNCTION button once to set the cursor to the User Code. Use the number buttons 1 through 9P to enter a code of up to 6 digits. Enter up to 6 digits (4 digits is recommended) in the first six boxes from left to right for each user code. Valid entries are: 0-9. **NOTE:** Press the \_\_\_\_ button for a zero. No blank spaces in between; leave blank (•) any trailing boxes.

If the programmed code was less than 6 digits, press the button once to set the cursor to the Area 1 Options Level. Refer to the table below for the available area options.

	 US	ER C	PTIO	NS		
	COD				EA 1	EA 2 IONS

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

USER AREA OPTIONS							
DATA ENTRIES OPTION							
ENABLED	R	L					
Disabled	• (blank)	• (blank)					
Arm/Disarm	1	• (blank)					
Arm Only	2	• (blank)					
Service	3	• (blank)					
Access	4	• (blank)					
_							

AREA OPTIONS: Up to 32 User Codes may be programmed.

A. Select the desired Area Options (Area 1 and Area 2) from the table shown and enter in the remaining four boxes for each user code.

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 "SERPICE DN" appears on the GEM-RP1CAe2 keypad (a "S" on the GEM-RP2ASe2 keypad) and the area can be disarmed with any valid User Code, including a Service Code. If the area is armed with OTHER than a Service Code, it CANNOT be disarmed with a Service Code. This is typically used to allow tradesmen access to premises under control of the owner.
Access	This is normally used to activate a door striker while an area is disarmed. Also program <access control="" on="" output="" pgm2=""> and <pgm2 access="" control="" output="" time="">.</pgm2></access>

For Area 2 Options, press the FUNCTION button once again. Refer to the table above for available options.

**NOTE:** Enter \* 0 for blank space (•).

Press to save each code. To proceed to the next User Code, press the FUNCTION button to set the cursor to the User Number and change it using the number buttons.

Program a new User Code as previously described. Remember to record your user codes in the Easy Menu Programming Worksheet at the back of this manual.

CHANGING OR CANCELLING 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 press 🖺

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	ZN# ZN01-	#TIMX	+ [ 9 ] : 0 -	P	RF Transmitter Points (Press the The button to set cursor.) (For wireless systems only. Also see Quick Method, which follows) For each transmitter (key fob transmitters also), enter the zone number
	Zone # Mapped to	Xmitter ID	Check Sum		(01–32) to which the transmitter will be mapped, the 6-digit RF ID #:1-digit checksum number printed on the transmitter and box, the number of points
(1–4); er	nter "9" for ur	supervised (al	l points)	. <b>NO</b>	TE: When programming the ID Code number, "A" = 💌 🔘; "B" = 🔻

1; "C" = * 2; "D" = * 3; "E"	'= * 4 "	F" = * 5.	Press 👺 t	o save. Pre	SS NEXT (INTERIO	<b>ച</b> ) to
continue.						
	Quick Method.	If a receiver is	already i	nstalled in	the panel, N	арсо

XMIT#+C5PZNO1-000000:0-0

XMIT#+CS ENROLL:A--ZN井 Z N O 1 -

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 the PYPASS button 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 or

#### GEM-TRANS4 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 1) or to selected zones point by point (Example 2).

Example 1. A 4-point transmitter has the RF ID number 410078:1. Map the first three points to Zones 11–13, respectively.

- 1. Enter the Enroll mode as described in step 2 above.
- Enter Zone "11".
- 3. Open the loops of points 1, 2 and 3.
- 4. Install the transmitter battery. The keypad will beep 3 times to indicate that three points have been programmed.
  - 礟 Transmitter 410078:1, point 1 will be mapped to Zone 11.
  - Transmitter 410078:1, point 2 will be mapped to Zone 12. 礟
  - Transmitter 410078:1, point 3 will be mapped to Zone 13. B

The keypad will now display Zone 13, the last zone enrolled.

Example 2. 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".
- 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: Keyfobs can also be assigned to zones to allow individual reporting. Each of the 4 keyfob buttons can be assigned to a zone. For example, On button = point 1; Off button = point 2; A1 = point 3; A2 = point 4. Up to 32 keyfobs can be assigned, providing multiple wireless panic buttons on a system, each reporting to the Central Station or a pager and/or annunciating on a keypad the keyfob zone number with description/location. To assign a keyfob to a zone. program the keyfob as you would a transmitter, entering the keyfob's ID code, check sum and point number at the appropriate

NOTE: If assigning a keyfob to a zone, the "ON/OFF" buttons on the key fob will no longer arm and disarm the system.





DEALER CODE <u>4</u>56789

(Direct Entry)

DEALER CODE RE-ENTER--

(Direct Entry)

Directly enter the Dealer Code, including leading zeros. Use number buttons 1 through 9 NOTE: Press the 0 button for a zero.

Press 🔀 to save.

Re-enter the Dealer Code to verify the previous code. Press 🔭 to save.

Press NEXT (INTERIOR) to proceed.

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

CLEAR PROGRAM: Should it be necessary to create a new custom default program, (a) from the Dealer Program Mode. press reser to enter the Address Program Mode; (b) access Location 1196 (Clear Program); (c) press and start over.

В.	GE	M-	RP	2A	<b>8e2</b>	Ke	ypad
----	----	----	----	----	------------	----	------

Enter the Dealer Security Code (456789) for a new panel or enter your custom Dealer Program Code if programmed. Press NO (INSTANT) repeatedly until "TURNON/PROG" is displayed. NOTE: If you pass "TURNON/PROG", you can scroll back by pressing the BYPASS button. Press YES (INTERIOR) to enter the Dealer Program Mode.

This keypad displays messages in multiple segments. Press the word button to scroll through each segment. To create your customized default program using a GEM-RP2ASe2 keypad, enter the following parameters and record your information on the Easy Menu Programming Worksheet.

Number of Zones in Area 1 (Appears for New Panel Only) Directly enter the number of zones to be programmed for Area 1. Valid ENT 81 entries are from 01 to 32. Directly enter each zone number, including leading zeros. Use number buttons 1 through 9P. NOTE: Press #ZN the o button for a zero. 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 (Direct Entry) to 20 zones. Press on to save. Press NEXT (NTEROR) to proceed. NOTE: If you are programming a 2 Area system, enter the total number of zones required for Areas 1 & 2. The Direct Address Program Mode can then be used to remove zones from Area 1 and place them in Area 2. See Zone Options. If Programming a Wireless Only system, or using wireless only on Zones 9-32, enter the total number of zones in system. Enter the transmitter points in the RF Transmitter section of the Easy Menu Driven Programming Mode. Panel Zone Doubling (Appears for New Panel Only) ZN DBL If the number of zones entered was 16 or less, press YES (MTEROR) to effectively double the capacity of the control panel's hard wired zones from 8 to 16. The 16 zones will no longer be EOL zones, but will be designated for Normally Closed devices only. The terminal for Zone 1 will now support ENABLA Zones 1 and 9 with the use of the supplied EZ Zone Doubling<sup>™</sup> resistors. E & Z supplied. (Refer to Wiring Diagram and Installation Instructions). If Panel Zone doubling is not desired, press NO ( NSTANT ). Y/N (Press YES or NO) Fire Zones in Area 1 (Appears for New Panel Only) ENT FR Enter the number of any zones which are to be used as Fire Zones (both 2-wire and 4-wire). Valid entries are from 01 to 32. Directly enter each zone number, including leading zeros, and Press 🖫 to save, and then 2 N # repeat for any additional zone(s). Press NEXT (MTERIOR) to proceed.

NOTE: If you are programming a 2 Area system, enter the total number of zones required for Areas 1 & 2. The Direct Address Program Mode can then be used to remove zones from Area 1 and place them in Area 2. See Zone Options.

(Direct entry)

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		2-Wire Fire Zones in Area 1 (Appears for New Panel Only)
	ENT2UF	Enter the number of any Fire Zones (from previous question) which are to be used with 2-wire smoke detectors. The only valid entries are 07 and
χ. Ε		08. Directly enter each zone number, including leading zeros. Press to
	ZN# _	save, and then repeat for any additional zone(s).  NOTE: Only zones which have been designated as Fire Zones in the prior
(Direct entry)		question may be programmed as 2 Wire Fire zones. Press NEXT (e) to
(Direct entry)		proceed. NOTE: JP3 must be set to "2-WF" position for 2-wire fire zones
		(refer to Installation Instructions).
		Annual Station Departing System (Annual for New Penel
* ************************************	DEDODT	Local or Central Station Reporting System (Appears for New Panel Only)
	REPORT	Press YES (MIERIOR) for all zones to report; press NO (INSTANT) for no zones to
		report (LOCAL SYSTEM).
	ALL ZN	
3		
		1
	4/r	
(Direct Entry)		
(Direct Entry)		
		Exit/Entry Zones in Area 1 (Appears for New Panel Only)
	ENT EE	Directly enter the number of any zones which are to be used as Entry/Exit
		zones. Valid entries are from 01 to 32. Directly enter each zone number,
P.		including leading zeros. Use number buttons 1 through 99 NOTE:
	ZN#	Press the button for a zero. Press to save and then repeat for
		any additional zone(s). <b>Press</b> NEXT (MICROR) to proceed. <b>NOTE:</b> Chime will automatically be programmed for all E/E zones. If you
(Direct Entry)	)	are programming a 2 Area system, enter the total number of zones
used to remove zones from A	rea 1 and place th	required for Areas 1 & 2. The Direct Address Program Mode can then be em in Area 2. See Zone Options.
used to remove zones from Ai	ea i and place th	en in Area 2. See 20ne Options.
•		
		Interior Zones in Area 1 (Appears for New Panel Only)
使 <sup>され</sup> 。 第25 <b>18</b> 6	ENTINT	Directly enter the number of any zones which are to be used as Interior
# x		Zones. Valid entries are from 01 to 32. Directly enter each zone number,
ii.	7044	including leading zeros. Use number buttons through P NOTE:
	ZN# _	Press the D button for a zero. Press to save and then repeat for
(Direct Entry	)	any additional zone(s). Press NEXT (NIEROR) to proceed.
,		<b>NOTE:</b> All Interior zones will also be automatically programmed as Exit/Entry Follower zones. If you are programming a 2 Area system, enter
		& 2. The Direct Address Program Mode can then be used to remove zones
from Area 1 and place them in	Area 2. See Zone	e Options.

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	ENT	81		(Appears for New Panel Only)  Keypads to be installed in Area 1. Valid  y enter the number of keypads, including	
			leading zeros. Use number butt	ons 1 through 9P. NOTE: Press	
	#K	P	proceed. NOTE: Area 2 keypad	ress to save. Press NEXT (MEROR) to s can only be assigned in Direct Address	
	(Direct Entry)		Programming. See Keypad Opti	ions.	
			Control Station Bossiner 4 Tol	lanhana Numbar	
	DUO	MELL	Central Station Receiver 1 Tell Using number buttons, enter tele	ephone Number ephone number of up to 16 digits including	
	PRU	NE#	prefix letters, if necessary, for re	ceiver 1. Enter digits 1–9; enter 🔭 0	
				ugh * 5 for letters B–F, respec- "D"; Dial-Tone Detection = "E". Pressing	
			the o button will produce a b	olank space (●).	
			Press to save, then press NEXT (INTERIOR) to proceed. NOTE: Central Station Receiver 2 and 3 Telephone Numbers can only be entered in Direct Address Programming. See CS Receiver Options.		
	(Direct Entry)				
	ACC	#	NOTE: Press thebutton for	to four digits. Use number buttons 1–9.  a zero and press * 0 for a blank	
	(	}}	space (•). Press to save. Press NEXT (NTERIOR) to proceed.  NOTE: Central Station Receiver 2 and 3 Account Numbers can only be entered in Direct Address Programming. See CS Reporting Options.		
	(Direct Entry)				
				<b>(</b> €3)	
	REC	FMT		rmat e central station's receiver format. Use E: Press the ① button for a zero and	
		(0)		ce (•). Enter * 1 through * 4 e. Press NEXT (RITEROR) to proceed.	
	(Direct Entry)		NOTE: Central Station Received Direct Address Programming. S	r 2 and 3 Formats can only be entered in ee CS Receiver Options.	
DATA ENTRY	CS RECEIVER 1 FORMAT	DATA ENTRY	CS RECEIVER 1 FORMAT		
• (blank)	Ademco Slow, Silent Knight Slow	5	Universal High Speed		
3	Radionics Fast Silent Knight Fast	В	SIA Ademco Point ID		
4	Radionics, DCI, Franklin Slow	E	Pager		
				•	

				WI897 8/97
	USE	KUI   Fo	nter User Code or default progra ptions.	es (Press the Function button to set cursor.) am, enter up to 32 User Codes, with Area 1 and Area 2
		R	Press the	button once to set the cursor to the User Code. Use
	(Direct Entry)		the number l	puttons through for each up to 6 a code of up to 6 up to 6 digits (4 digits is recommended) in the first six left to right for each user code. Valid entries are: 0-9.
	0P1	1		s the0_button for a zero. No blank spaces in between; •) any trailing boxes.
	(Direct Entry)		once to set the	nmed code was less than 6 digits, press the word button he cursor to the <i>Area 1 Options Level</i> . table below for the available area options
	0P1	.5	110101 10 1110	addie beleit for the divaliable died options
	(Direct Entry)			
USER CODE	ER OPTIONS  AREA 1 AREA 2 (IS) OPTIONS OPTIONS	USER AF	REA OPTIONS OPTION	AREA OPTIONS: Up to 32 User Codes may be programmed.
(UP TO 6 DIGIT	ris) OPTIONS OPTIONS	L R  • (blank) • (blank)  • (blank) 1  • (blank) 2	Arm/Disarm	A. Select the desired Area Options (Area 1 and Area 2) from the table shown and enter in the remaining four boxes for each user code.
		• (blank) 2 • (blank) 3 • (blank) 4 • (blank) Add 8	Arm Only Service Access User Program	Example: Program a code of "2222" for user 02, with area 1 options of "Arm/Disarm" and "User Program". Enter "2222" for a user code, "• (blank) 9" for area 1 options and "• (blank) • (blank)"" for area 2 options.
AREA OPTIONS	EXP	LANATION		
Disabled	User Code not active in this a	rea.		To Aug 2 Onting was the water by the
Arm/Disarm	Allows User Code to arm/disa			For Area 2 Options, press the word button once again. Refer to the table above for available op-
Arm Only Service	Prevents User Code from disa A Service Code has restricted armed with a Service Code, a RPICAe2 keypad (a "5" on the area can be disarmed with an Service Code. If the area is an Code, it CANNOT be disarmet typically used to allow trades control of the owner.	l arm/disarm rights "SERVICE ON" apper e GEM-RP2ASe2 k y valid User Code, med with OTHER t d with a Service Co	ars on the GEM- eypad) and the including a than a Service ode. This is	tions.  NOTE: Enter **   * 0   for blank space (•).
Access	This is normally used to active disarmed. Also program <acc <pgm2="" access="" control<="" output="" td=""><td>cess Control on Po</td><td>while an area is GM2 Output&gt; and</td><td></td></acc>	cess Control on Po	while an area is GM2 Output> and	

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	ZN# 01
	000000
(Direct Entry)	
	:0 PT.
(Direct Entry)	

RF Transmitter Points (Press the FINCTION button to set cursor.)
(For wireless systems only. Also see Quick Method, which follows)

For each transmitter (key fob transmitters also), enter the zone number (01–32) to which the transmitter will be mapped, the 6-digit RF ID #:1-digit checksum number printed on the transmitter and box, the number of points (1–4); enter "9" for unsupervised (all points). **NOTE:** When programming

the ID Code number, "A" = \* C; "B" = \* 1; "C" = \* 2

; "D" = \* 3; "E" = \* 4 "F" = \* 5. Press to save.

Press NEXT (MTERIOR) to continue.

Quick Method. If a receiver is already installed in the panel, Napco 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 the PYPASS button 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 or GEM-TRANS4 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 1) or to selected zones point by point (Example 2).

Example 1. A 4-point transmitter has the RF ID number 410078:1. Map the first three points to Zones 11–13, respectively.

- 1. Enter the Enroll mode as described in step 2 above.
- 2. Enter Zone "11".
- 3. Open the loops of points 1, 2 and 3.
- 4. Install the transmitter battery. The keypad will beep 3 times to indicate that three points have been programmed.
  - Transmitter 410078:1, point 1 will be mapped to Zone 11.
  - Transmitter 410078:1, point 2 will be mapped to Zone 12.
  - Transmitter 410078:1, point 3 will be mapped to Zone 13.

The keypad will now display Zone 13, the last zone enrolled.

Example 2. 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.)

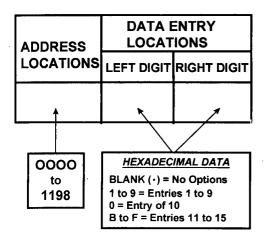
**NOTE:** If you are programming a 2 Area system, enter the rf transmitters to be mapped to the zones required for Areas 1 & 2. The Direct Address Program Mode can then be used to remove zones from Area 1 and place them in Area 2. See Zone Options.

**KEY FOB ZONE ASSIGNMENT:** Keyfobs can also be assigned to zones to allow individual reporting. Each of the 4 keyfob buttons can be assigned to a zone. For example, On button = point 1; Off button = point 2; A1 = point 3; A2 = point 4. Up to 32 keyfobs can be assigned, providing multiple wireless panic buttons on a system, each reporting to the Central Station or a pager and/or annunciating on a keypad the keyfob zone number with description/location. To assign a keyfob to a zone, program the keyfob as you would a transmitter, entering the keyfob's ID code, check sum and point number at the appropriate zone.

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		KF	080	וכ	Key Fob Transmitters (Press the Dutton to set cursor.) For each Key Fob Transmitter, enter::
動機が					the Key Fob Transmitter number (01–08).
		AR	ER	_	area number to which transmitter is assigned (1 or 2); enter 0 to disable keyfob.
	(Direct Entry)				the 6-digit RF ID # printed on the transmitter (enter all numbers and/or letters, including leading "0"s, if any).
Market to		00	00	00	1-digit checksum number printed on the transmitter (enter all numbers and/or letters, including leading "0"s, if any).
	(Direct Entry)			•	Aux-1 Option (see key fob aux 1 & aux 2 options).
All		:0	0	0	Aux-1 Option (see key fob aux 1 & aux 2 options).
	(Direct Entry)				Press to save. Press NEXT (NTERIOR) to continue.
	(Direct Entry)	DE			Dealer Code Directly enter the Dealer Code, including leading zeros. Use number buttons  through  PNOTE: Press the  button for a zero. Press to save.  Re-enter the Dealer Code to verify the previous code. Press  to save.  Press NEXT (NIEROR) to proceed.
Program Mode operation.	for further prog	gramm be ne	ning o	r pres	etes the custom default program. Press reset to enter the Direct Address is reset once again to end all programming and resume normal keypad create a new custom default program, (a) from the Dealer Program Mode, c; (b) access Location 1196 (Clear Program); (c) press and start over.

# **DIRECT ADDRESS PROGRAM MODE**

This is an extension of the Dealer Program Mode. This method of programming is used in conjunction with the Keypad Programming Worksheets that follow. Refer to these worksheets to identify the 4-digit location (address) of the feature to be programmed. An illustrative example is provided on the next page.

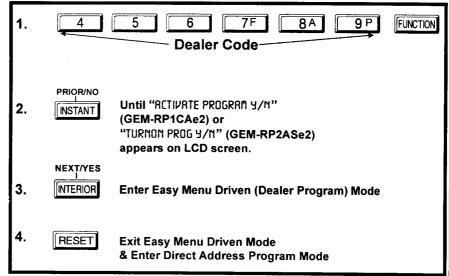


### KEYPAD PROGRAMMING OVERVIEW

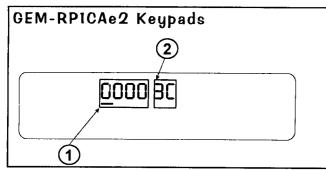
Direct Address Programming allows you to go directly to the address locations and change the data entries to customize your control panel options. Whereas the Easy Menu Program Mode is a simple quick start guide with limited options, the Direct Address Program Mode is more flexible allowing you to change all the options.

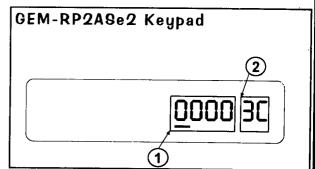
It consists of multiple address locations (up to 1198) with two data entry locations each (left and right) as shown in the adjacent diagram.

## ACCESSING DIRECT ADDRESS PROGRAM MODE



## WHAT YOU SEE ON THE KEYPAD





- 1 = ADDRESS LOCATION
- (2) = DATA ENTRY LOCATION

## DIRECT ADDRESS PROGRAM MODE KEYPAD COMMANDS

## A. GEM-RPICAe2 Keypads

0000 30 GEMIZI TO ACCESS, PRESS RESET 0000 3C IN DEALER PROGRAM MODE. 1. TOGGLE CURSOR TO 4-DIGIT ADDRESS FIELD USING FUNCTION BUTTON.-FUNCTION CURSOR 2. ENTER ADDRESS NUMBER DIRECTLY USING NUMBER BUTTONS. PRIOR/NO DISTANT BYPASS 4 5 6 3. ENTER DATA DIRECTLY USING NUMBER BUTTONS. 4. PRESS ON/OFF TO SAVE. NOTE: PRESS 0 TO CLEAR TO EXIT, PRESS RESET CHARACTER AT CURSOR. SELECT NEXT/PRIOR ADDRESS. (PRESS NEXT TO JUMP TO NEXT PROGRAMMING BLOCK \*PRESS "[\*10]"-"[\*15]" FOR 10-15 (A-F), RESPECTIVELY.

Fig. 1. Address Program Mode, GEM-RP1CAe2.

## B. GEM-RP2A8e2 Keypad

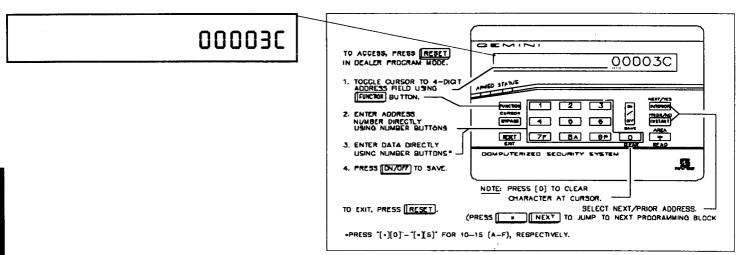


Fig. 2. Address Program Mode, GEM-RP2ASe2.

The displays shown below will appear after a brief delay.

- Use the Fusion button to toggle the cursor between the 4-digit address field and the data entry locations.
- Finter the address directly using the number buttons.
- The contents of the address will be read automatically, along with the feature name and programming information. The cursor will advance to the data field. Enter the required data directly using the number buttons.
- Press to save the contents of each address.

**EXIT DIRECT ADDRESS PROGRAM MODE:** When done, press reset to exit and resume normal keypad operation. The panel is now programmed with your default program.

## PROGRAMMING OVERVIEW

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 Quickloader software following any keypad programming and that the PCD3000's error-check feature be utilized to reduce the possibility of programming omissions or conflicts.

Note: Most of the addresses shown comprise two data entry locations, left and right digits. Program the left digits on the left data-display segment, and the right digit on the right segment. For those addresses having only one programmable nibble, program the right segment only; the left segment should display a blank (\*).

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 respec tive "address" boxes. Refer to the Programming Op tions and Worksheets for guidance in selecting the "data" (1,2,4,8) 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 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, enter \* 0 . To program 11 through 15, enter

\* 1 through \* 5, respectively.

	ENTRY RY VAL	UE CIR		ENTRY TOTAL	PRESS	KEYPAD DISPLAYS
8	4	2	1	blank	0	•
8	4	2	1	1	1	1
8	4	2	1	2	2	2
8	4	2	1	3	3	3
8	4	2	1	4	4	4
8	4	2	1	5	5	5
8	4	2	1	6	6	6
8	4	2	1	7	7F	7
8	4	2	1	8	<b>8</b> A	8
8	4	2	1	9	9 P	9
8	4	2	1	10	* 0	0
8	4	2	1	11	* 1	В
8	4	2	1	12	* 2	С
8	4	2	1	13	* 3	D
8	4	2	1	14	* 4	E
8	4	2	1	15	* 5	! !

Table 1. Determining data entry for a location (each "nibble"). Numbers in parentheses indicate data for selected zones or features. (See Programming Worksheets that follow.)

NOTE: See the Direct Address Programming Example on the following page.

Direct Ac	ddress	Programming	Examp	le
-----------	--------	-------------	-------	----

Example: Program Zones 6, 7 and 8 as Exit/Entry Follower Zones.

#### DETERMINE THE DATA ENTRIES

Referring to ZONE FEATURES in the Programming Worksheets that follow, Exit/Entry Follower for Zones 5 through 8 are located at address 0506, left digit. Circle so the data values for Zones 5-8.

Add the data values for Zones 6, 7 and 8: 2+4+8=14. From Tables 1 and 2, "14" is entered as \*\* 4\* (E). The right digit (for Zones 1 through 4, none of which are Exit/Entry Follower Zones) is entered as a blank (•).

ZONE FEATURES									
ZONE FEATURE	SUM:	= 14 (LEFT D	IGIT); CIRCI	.E 🖋	ADDRESS		BLANK" (LE	FT DIGIT); C	IRCLE 🖋
ZONE PLATORE	ZONE 8	ZONE 7	ZONE 6	ZONE 5	LOCATION	ZONE 4	ZONE 3	ZONE 2	ZONE 1
EXIT/ENTRY FOLLOWER	8	4	2	1	0506	8	4	2	1

#### PROGRAM THE DATA ENTRIES

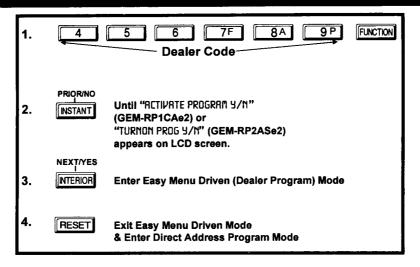
- 1. Enter the panel's Dealer Code (Address 0165), then press the FUNCTION button.
- 2. Answer NO ([INSTANT]) to all questions until "ACTIVATE PROGRAM אל" is displayed; then press YES ([INTERIOR]). Note: If you pass "RCTIVATE PROGRAM", scroll backward using the BYPASS button.
- 3. Press RESET to enter the Address Program Mode. Address "0000" will display.
- 4. Press 0 5 0 8A to access Address 0506. The data for both digits will display and the cursor will advance to the data field.
- 5. Press 4 to enter an "E" in the left digit; press 0 to enter a blank (•) in the right digit.
- 🖙 6. Press 🖫 to save.

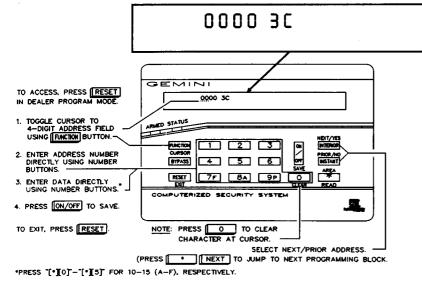
Address 0506 is now programmed with "E•".

7. Enter another 4-digit address to continue programming or press (RESET) to exit and resume normal keypad operation.

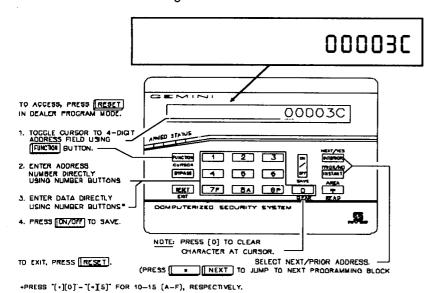


# PROGRAMMING OPTIONS & WORKSHEETS





Direct Address Program Mode: GEM-RP1CAe2.



ENTRY TOTAL	PRESS	KEYPAD DISPLAYS
blank	0	•
1		1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7		7
8		8
9	9 P	9
10	* 0	0
11	* 1	В
12	* 2	С
13	* 3	D
14	* 4	E
15	* 5	F

Determining data entry for an address location (left and right digits). (See Programming Worksheets that follow.)

Direct Address Program Mode: GEM-RP2ASe2.



## ADDRESS 0000 TO 0002, 0711 & 0715 (SYSTEM DELAYS & TIMEOUTS)

EXIT DELAY (sec.)	ADDRESS 0000		
	LEFT RIGHT		

1	RESS		
Т	F	LEFT	ENTRY DELAY 1
			DELATI

ENTRY DELAY 2	ADDRESS 0002		
	LEFT	RIGHT	
(sec.)			
1			

ABORT DELAY	ADDRESS 0715		
	LEFT	RIGHT	
(sec.)			

PGM2 Output	ADDRESS 0711		
Access Control	LEFT	RIGHT	
Timeout (sec.)			

[D

efault =	3C]	[[

255 sec.

[Defau	ılt =	1E]
--------	-------	-----

[Default = 1E]

DATA ENTRIES		DELAY/
LEFT	RIGHT	TIMEOUT
• (blank)	• (blank)	0 sec.
• (blank)	F	15 sec.
1	Ε	30 sec.
2	D	45 sec.
3	С	60 sec.
5	0	90 sec.
7	8	120 sec.
	İ	

- 1. Select delay/timeout (0-255 sec.) from the table shown.
- 2. Enter in corresponding address locations above (left and right digits).
- 3. For a desired delay/timeout not listed do the following:
  - A. Choose a desired delay/timeout, ex: 20 sec.

EXIT/ENTRY DELAYS: Apply only to zones programmed with the following options "Entry/Exit 1, Entry/Exit 2, Exit/Entry Follower". For UL Installations, the maximum exit delay is 60 seconds and the maximum entry delay is 45 seconds.

**PROGRAMMING TIMEOUTS:** Either use the tables provide or calculate your own timeout using the steps indicated.

## ADDRESS 0716 & 0717 (SYSTEM DELAYS & TIMEOUTS)

CHIME TIMEOUT (1/4sec.)	ADDRESS 0716							
	LEFT	RIGHT						

[Default = •(blank) 2]

DRESS 0716		AC Fail	ADDRESS 0717				
T	RIGHT	Report Delay	LEFT	RIGHT			
		(min.)					
lani	k) 2]	[Default	= •(blanl	k) • (blank	)]		

AC Fail Report Delay Options								
	NTRIES							
LEFT	RIGHT	DELAY						
• (blank)	• (blank)	0 min.						
• (blank)	1	1 min.						
• (blank)	2	2 min.						
• (blank)	3	3 min.						
• (blank)	4	4 min.						
• (blank)	5	5 min.						
• (blank)	6	6 min.						
F	F	255 min. = 4 Hr., 30 min.						

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

CHIME TIMEOUT OPTIONS							
DATA E	NTRIES	TIMEOUT					
LEFT	RIGHT	TIMEOUT					
• (blank)	• (blank)	0 ½sec. = 0 sec.					
• (blank)	2	2 1/4sec. = 1/2 sec.					
• (blank)	3	3 1/4sec. = 3/4 sec.					
• (blank)	4	4 1/4sec. = 1 sec.					
• (blank)	5	5 1/4sec. = 1.25 sec.					
• (blank)	6	6 1/4sec. = 1.5 sec.					
• (blank)	7	7 ½sec. = 1.75 sec.					
•(blank)	8	8 1/4sec. = 2 sec.					
		•					
F	F	255 1/4sec. = 63.25 sec.					

- 1. Select delay/timeout from the tables shown.
- 2. Enter in corresponding address locations above (left and right digits).
- 3. For a desired delay/timeout not listed do the following:
  - A. Choose a desired delay/timeout, ex: 20

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

PGM2	ADDRESS 0710						
Output Timeout	LEFT	RIGHT					
(min.)							

[Default = •(blank) •(blank)]

Alarm Output Timeout (min.)	ADDRESS 0712							
	LEFT	RIGHT						

[Default = 1 • (blank)]

Pulsed	ADDRESS 0713							
Alarm Output	LEFT	RIGHT						
Timeout								
(min.)								

[Default = 1 • (blank)]

PGM1 Output Timeout	ADDRESS 0714						
	LEFT	RIGHT					
(min.)							

[Default = •(blank) •(blank)]

DATA E	NTRIES	DELAY/
LEFT	RIGHT	TIMEOUT
• (blank)	• (blank)	0 min.
• (blank)	1	1 min.
• (blank)	2	2 min.
• (blank)	3	3 min.
• (blank)	4	4 min.
• (blank)	5	5 min.
• (blank)	6	6 min.
1	• (blank)	16 min.
1		

255 min.

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

2. Enter in corresponding address locations above (left and right digits).

3. For a desired timeout not listed do the following:

A. Choose a desired delay/timeout, ex: 20 min.

**OUTPUT TIMEOUTS:** If a timeout of "0 min." is selected, then the output will remain active (ON) until the system is reset or disarmed. For UL Residential Installations, the minimum timeout is 4 minutes. For UL Comercial Installations, the minimum timeout is 15 minutes.

## ADDRESS 1183 & 0236-0255 (DOWNLOAD/CALLBACK OPTIONS)

No.	ADDRESS 1183						
Rings Before	LEFT	RIGHT					
Pickup	blank (•)						

[Default = • (blank) • (blank)]

(B)	1	Enter	in riaht	digit	only	(left	diait i	is not	used).
4		Lillei	ni ilait	ululi		(ICIL	andit i	3 1101	uocu,

0.111						j.	AD	DRES	S 023	5-0255	(RIGI	IT DIG	ITS 1-	20)						
Caliback Telephone	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255
Number	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
(Digits 1-20)																				
				i I	l		ı	1												1

[Default = •(blank) from digits 1-20]

1. Enter in right digit only (left digit is not used).

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

3. Valid entries are: 1-9, B = 😿 button, C = ∰ button, D = 3 sec. pause, E = Wait for dial tone, F = ignore location



## ADDRESS 0450-0485 (SYSTEM OPTIONS)

SYSTEM RESPONSE	GLOB					ADDRESS		GLOBAL SYSTEM EVENT/TROUBLE					
ACTIVATED BY GLOBAL	LEFT	DATA VALU	JES (CIRCL	E 🖋)	0450-0459			RIGHT DATA VALUES (CIRCLE 🎤)					
EVENT/TROUBLE	Bell Superv.	EZM TAMPER	AC FAIL	LOW BATTERY	LEFT	ADDR	RIGHT	MEMORY FAILURE	RF RCVR. TROUBLE	TELCO FAILURE	TEST TIMER		
Alarm Output	8	4	2	1		0450		8	4	2	1		
Pulse Alarm Output	8	4	2	1		0451		8	4	2	1		
PGM1 Output	8	4	2	1		0452		8	4	2	1		
PGM2 Output	8	4	2	1		0453		8	4	2	1		
Report Event Telco 1	8	4	2	1	-	0454		8	4	2	1		
Report Restore Telco 1	8	£1 × , <b>4</b> .	2	1		0455		8	4	2	1		
Report Event Telco 3	8	4	2	1		0458		8	4	2	1		
Report Restore Telco 3	8		2	1		0459		8	4	2	1		

[Default = •(blank) •(blank) from address 0450-0459]

SYSTEM RESPONSE	AREA 1 SYSTEM EVENT/TROUBLE				ADDRESS			AREA 1 SYSTEM EVENT/TROUBLE					
ACTIVATED BY AREA 1	LEFT	DATA VALU	JES (CIRCL	E 🎤)	0470-0477			RIGHT DATA VALUES (CIRCLE 🎤)					
EVENT/TROUBLE	Keyfob Low Bat.	FAIL TO CLOSE	FAIL TO OPEN	KEYPAD TAMPER	LEFT	ADDR	RIGHT	KEYPAD AUX.	KEYPAD FIRE	KEYPAD PANIC	AMBUSH		
Pulse Alarm Output	8	4	2	1		0470		8	4	2	1		
Alarm Output	8	4	2	1		0471		8	4	2	1		
PGM1 Output	8	4	2	1		0472		8	4	2	1		
PGM2 Output	8	4	2	1		0474		8	4	2	1		
Report Event Telco 1	8	4	2	1		0475		8	4	2	1		
Report Event Telco 3	8	4	2	1		0477		8	4	2	1		

[Default = •(blank) •(blank) from address 0470-0477]

SYSTEM RESPONSE	AREA	AREA 2 SYSTEM EVENT/TROUBLE					ADDRESS			EVENT/TRO	UBLE
ACTIVATED BY AREA 2	LEFT	DATA VALU	JES (CIRCL	E 💅)	0478-0485		RIGHT	DATA VALI	UES (CIRCL	.E 🖋)	
EVENT/TROUBLE	Keyfob Low Bat.	FAIL TO CLOSE	FAIL TO OPEN	KEYPAD TAMPER	LEFT	ADDR	RIGHT	KEYPAD AUX.	KEYPAD FIRE	KEYPAD PANIC	AMBUSH
Pulse Alarm Output	8	4	2	1		0478		8	4	2	1
Alarm Output	8	4	2	1		0479		8	4	2	1
PGM1 Output	8	4	2	1	,	0480		8	4	2	1
PGM2 Output	. 8	4	2	1		0482		8	4	2	1
Report Event Telco 1	8	4	2	1		0483		*8	4	2	1
Report Event Telco 3	8	4	2	1		0485		8	4	2	1

[Default = •(blank) •(blank) from address 0478-0485]

- 1. Select the desired option by circling \*\* the data values for each digit (left and right).
- 2. Add the data values (ex: 15=1+2+4+8) from the selected options.
- 3. Enter in address location (left and right digits).
- NOTE: Dark shaded data value box shows option not avialable.





#### ADDRESS 0718, 0719, 0720, 0721 & 0722 (SYSTEM OPTIONS) LEFT DATA VALUES RIGHT DATA VALUES ADDRESS 0718 SYSTEM OPTIONS SYSTEM OPTIONS **LEFT DIGIT RIGHT DIGIT** (SUM OF (SUM OF DATA VALUES) (CIRCLE 🖋) (CIRCLE 🎤) Opening Report Only after Alarm Report RESERVED Closing Report Only on Conditional Close **Enable AutoArm if not** [Default = •(blank) •(blank)] 2 2 closed at end of windows Incl. Sel./Grp. Bypass in Cond. Close /Status Disable Time/Date 4 at Keypad Status Report RESERVED 8 RIGHT DATA LEFT DATA ADDRESS 0719 VALUES VALUES LEFT DIGIT RIGHT DIGIT (SUM OF DATA VALUES) SYSTEM OPTIONS SYSTEM OPTIONS (CIRCLE (CIRCLE Access Control on PGM2 Output **Auto Bell Test** on Arming Auto Reset after Burglary Maintained Keyswitch [Default = •(blank) •(blank)] 2 2 **Outout Timeout** Arming Suppress Bypass Enable Manager's Mode 4 4 Reminder when Armed Enable Local Alarm on First "ZoneAND" Trip Disable Instant Mode 8 8 ADDRESS 0720 RIGHT DATA VALUES **LEFT DATA** VALUES SYSTEM OPTIONS **SYSTEM OPTIONS LEFT DIGIT** RIGHT DIGIT (CIRCLE (CIRCLE M (SUM OF DATA VALUES) (SUM OF DATA VALUES Disable Function Interior 1 Normally Byapssed Mode Download Disable Enable 99 as [Default = •(blank) •(blank)] 2 Callback Download Ambush code Reset Day Zone with Arm/Disarm Only PGM2 Output Chirp on 4 **Keyfob Arming** Change Pulse Output to **Enable Residential Fire** 8 Cadence RIGHT DATA VALUES **LEFT DATA** ADDRESS 0721 VALUES SYSTEM OPTIONS SYSTEM OPTIONS **LEFT DIGIT RIGHT DIGIT** (CIRCLE ) (SUM OF (SUM OF DATA VALUES) (CIRCLE 🖋) Line-Fault Test only when **Enable Zone Doubling** Armed (Zones 9-16) Enable Line-Fault Test Wireless Trouble Default depends on Easy Menu Question 2 2 **Activates Telco 1** "EZ ZONE DOUBLING? Y/N" RESERVED Wireless Trouble Activates Telco 3 If yes, then [Default = • (blank) 1]. RESERVED RESERVED If no, then [Default = •(blank) •(blank)]. 8 **LEFT DATA** ADDRESS 0722 **RIGHT DATA VALUES VALUES** SYSTEM OPTIONS **LEFT DIGIT RIGHT DIGIT** SYSTEM OPTIONS (CIRCLE (SUM OF (SUM OF DATA VALUES) (CIRCLE Don't Clear PGM2 Output **Automatic** with Arm/Disarm Interior Bypass Two Ring Download Veriphone Zones trip PGM2 Output [Default = •(blank) •(blank)] 2 RESERVED Veriphone Zones over Priority Alarms

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

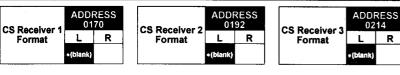
NOTE: Dark shaded data value box shows option not avialable.

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

RESERVED

RESERVED

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



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 in the corresponding right digit address location (left digit is not used) for each CS Receiver. **NOTE:** Dark shaded data value box shows option not avialable.

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

CS RECEIVER OPTIONS	LEFT DATA VALUES (CIRCLE 🎤)	ADDRESS 0171 (CS RECEIVER 1 OPTIONS)  LEFT DIGIT (SUM OF (SUM OF	RIGHT DATA VALUES (CIRCLE )	CS RECEIVER OPTIONS
Sum Check	1	DATA VALUES) DATA VALUES)	1	1400Hz Handshake/Kissoff *
3/1 with Extended Restores	2		<b>→</b> 2	2300Hz Handshake/Kissoff *
RESERVED		(Default = (ht-ul) (ht-ul)	4	Enable Zone Number on Pulse Alarn
RESERVED	8 4. 19	[Default = •(blank) •(blank)]	8	Single Digit Only
CS RECEIVER OPTIONS  Sum Check	LEFT DATA VALUES (CIRCLE )	ADDRESS 0193 (CS RECEIVER 2 OPTIONS)  LEFT DIGIT (SUM OF (SUM OF DATA VALUES)	RIGHT DATA VALUES	CS RECEIVER OPTIONS
3/1 with Extended Restores	2	DATA VALUES) DATA VALUES)	- (OINOLL D)	440011 11 11 11 11 11 11
RESERVED	4		1	1400Hz Handshake/Kissoff *
RESERVED	8	[Default = ∙(blank) ∙(blank)]	2	2300Hz Handshake/Kissoff * Enable Zone Number on Pulse Alarn
CS RECEIVER OPTIONS	LEFT DATA VALUES	ADDRESS 0215 (CS RECEIVER 3 OPTIONS)	RIGHT DATA	
Sum Check	(CIRCLE )	LEFT DIGIT RIGHT DIGIT (SUM OF	VALUES	CS RECEIVER OPTIONS
	1	DATA VALUES) DATA VALUES)	(CIRCLE	
3/1 with Extended Restores	2		1	1400Hz Handshake/Kissoff *
RESERVED	4	[Default = •(blank) •(blank)]	2	2300Hz Handshake/Kissoff *
RESERVED	8	[= order - (order / v (order / v)]	4	<b>Enable Zone Number on Pulse Alarm</b>

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

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

2. Add the data values (ex: 15=1+2+4+8) from the selected options.

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

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

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

CS Receiver 1					,					2-0191											Default for CS Receiver
Telephone	0172	0173	0174	0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	
Number	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Telephone Number
(Digits 1-20)		İ	i																		depends on Easy Menu
			L	<u> </u>	L	L	L		<u> </u>	<u> </u>	L	L						L.,,,			Question "CENTRAL
S Receiver 2							_ AD	DRES	S 019	4-0213	(RIGI	IT DIG	ITS 1-	20)							PHONE #". [Default =
Telephone	0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	0212	0213	•(blank)] across digits 1
Number Digits 1-20)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	for CS Receiver Teleph
Digita 1-20)																					Numbers 2 and 3.
								DDEC	C 024	0.0005	(DIC)	IT 010	120 4	•							
S Receiver 3										6-0235											
i otopiiotio j	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	
Number Digits 1-20)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
													- 1								

CS RECEIVER TELEPHONE NUMBERS: Enter telephone numbers for any of the three CS Receivers.

- 1. Enter in right digit only (lend digit is not used).
- 1. Enter up to 20 digits from left to right. NOTE: leave trailing boxes blank (•).
- 3. Valid entries are: 1-9, B = 🖹 button, C = # button, D = 3 sec. pause, E = Wait for dial tone, F = Ignore location

## ADDRESS 0259-0347 (CS REPORTING OPTIONS)

CS Telco 1		RESS SHT D		
Subscriber Opening/Closing	0259	0260	0261	0262
ID Number	R	R	R	R
(Area 1)				

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

CS Tel			RESS SHT D		
Subsci Opening/0		0279	0280	0281	0282
D Nun	nber -	R	R	R	R
(Area	11)				

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

CS Telco 3			0299- IGITS	
Subscriber Opening/Closing	0299	0300	0301	0302
ID Number	R	R	R	R
(Area 1)				

CS Telco 3			0307- IGITS	
Subscriber Event	0307	0308	0309	0310
ID Number	R	R	R	R
(Area 1)				
		l	l	

Opening/Closing 0263 0264 0265				CS Telco 1
	0266	0264 0265 02	0263	Subscriber Opening/Closing
	R		R	ID Number
(Area 2)				(Area 2)

CS Telco 1	ADDRESS 0271-0274 (RIGHT DIGITS 1-4)										
Subscriber Event	0271	0272	0273	0274							
ID Number	R	R	R	R							
(Area 2)											

CS Telco 2	(RIC	SHT D	0283- IGITS	1-4)
Subscriber Opening/Closing	0283	0284	0285	0286
ID Number	R	R	R	R
(Area 2)				

CS Telco 2		RESS SHT D		
Subscriber Event	0291	0292	0293	0294
ID Number	R	R	R	R
(Area 2)				

CS Telco 3		RESS GHT D						
Subscriber Opening/Closing	0303	0303 0304 0305						
ID Number	R	R	R	R				
(Area 2)								
		l		1				

CS Telco 3 Subscriber Event ID Number		ADDRESS 0311-0314 (RIGHT DIGITS 1-4)									
	0311	0312	0313	0314							
	R	R	R	R							
(Area 2)											

CS Telco 1 Subscriber		RESS GHT D		
Subscriber	0275	0276	0277	0278
ID Number	R	R	R	R
(System)				•

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

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

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

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

- 1. Enter in corresponding right digit address location (left digit is not used).
- 2. Enter 3 or 4 digits (depending on the CS receiver format) for each subscriber number from left to right. NOTE: Leave trailing boxes blank (.).
- 3. Valid entries are: 1-9, 0 and B-F. NOTE: A is not permitted.

CS REPORTING CODES	ADDRESS 0319-0330									
CODES	LEFT	ADDR	RIGHT							
Alarm Restore	•(blank)	0319								
Trouble	•(blank)	0320								
Trouble Restore	•(blank)	0321								
Xmitter Low Battery	•(blank)	0322								
Xmitter Supervision	•(blank)	0323								
Xmitter Tamper	•(blank)	0324								
Opening	•(blank)	0326								
Closing	• (blank)	0327								
Opening after Alarm		0328								
Conditional Close		0329								
Fail to Open		0330								

[Default = •(blank) •(blank) from address 0319-0330]

[Default = •(blank) •(blank) from address 0333-0347]

CS REPORTING CODES	ADDRESS 0333-0347									
	LEFT	ADDR	RIGHT							
Telco Fail		0333								
RF Rec. Trouble		0334								
Memory Fail		0335								
Low Battery		0336								
Panel AC Fail		0337								
EZM Tamper		0338								
Alarm Output Superv.		0339								
Ambush		0340								
Panic		0341								
Fire		0342								
Auxiliary		0343								
Tamper		0344								
Fail to Close		0345								
Test Timer		0346								
Keyfob Low Battery		0347								

#### **CS 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 avialable.



## ADDRESS 0358-0429 (CS REPORTING OPTIONS)

 ADDRESS 0358-0365 CONTROL PANEL ZONES REPORT CODE									G		ADDF P 1 Z					E	G				0370 S REF			E							
 ZONE 1 0358		ZONE 2 0359		ZONE 2 ZONE 3		NE 3 ZONE 4		<del></del>					ZONE 7 ZONE 8 0364 0365				IE 9 66	ZON 03		ZON 03		ZON 03	E 12 69	ZON			E 14	ZON			E 16
	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R

G	ADDRESS 0374-0377 GROUP 3 ZONES REPORT CODE					)E	G	ADDRESS 0378-0381 GROUP 4 ZONES REPORT CODE										0382 S REF			_					0386		COD			
	E 17	ZON		ZON		ZON		ZON		ZON		ZON		ZON		ZON		ZON			E 27		E 28	ZON			IE 30	ZON			E 32
L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R

ZONE REPORT CODE OPTIONS **DATA ENTRIES** RIGHT LEFT

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

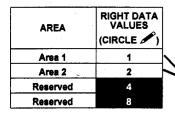
PULSE EVENT CODE will be the first digit of the 2 digit reporting code. the second digit will be the second digit of the reporting zone. For example, for zone 9 (address 0366), if the right digit is "3", then the reporting code is "39". For example, for zone 15 (address 0372), if the right digit is "4", then the reporting code is "45".

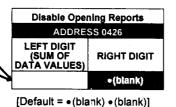
1. Enter the desired Pulse Event Code for each zone.

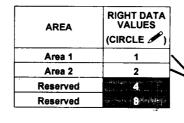
DATA ENTRIES	MODEM CODE
LEFT	
1	Fire *
2	Panic
3	Burglary
4	Hold up
7	Gas Alarm
8	Heat Alarm
0	Auxiliary Alarm
В	24 Hour Auxiliary

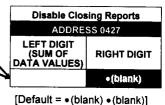
MODEM CODES determine the zone types reported for the following formats: SIA and ADEMCO Point ID.

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









CS REPORT OPTIONS	LEFT DATA VALUES (CIRCLE )
Cancel Next Test Timer on any Rpt.	1
Disable Wait for Silence	2
Disable Wait for Handshake	4
Disable DialTone Detect	8

ADDRE		
LEFT DIGIT (SUM OF DATA VALUES)	RIGHT DIGIT (SUM OF DATA VALUES)	
		1
[Default = •(b	lank) • (blank)]	

RIGHT DATA VALUES CIRCLE (1871)	CS RECEIVER OPTIONS
1	Backup Report on Telco 2
2	Touchtone Dialing Only *
4	Touchtone Dialing w/ Rotary Backup
8	Transmit "402" Open/Close Code
	VALUE\$

\* NOTE: If Touchtone Dialing or Touchtone w/Rotary Backup is not selected, then Rotary Dialing is automatically selected.

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

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

## ADDRESS 0430-0449 (CS REPORTING OPTIONS)

																ADD	₹ 0431	DICH	T DAT	A VAL	1166
	LEF	T DAT	A VAL	JES	AD	DR 04	30		IT DAT				T DAT			ADDI	7 0431	User	User	User	User
User Opening	User	User	User	User	LEFT		IGHT	User	User	User	User	User	User	User	User 13	LEFT	RIGHT	12	11	10	9
Telco 1	8	7	6	5				4	3	. 2	1	16	15	14					4	2	1
	8	4	2	1				8	4	1	1	8	4	2	1			8			1
	LEE	T DAT	A VALI	IFS	AD	DR 04	133	RIGH	HT DAT	A VAL	UES	LEF	T DAT	A VALI	JES	ADD	R 0432	RIGH	IT DAT	A VAL	UES
	User	User	User	User				User	User	User	User	User	User	User	User			User	User	User	Use
User Opening Telco 1	32	31	30	29	LEFT	.   E	IGHT	28	27	26	25	24	23	22	21	LEFT	RIGHT	20	19	18	17
	8	4	2	1				8	4	1	1	8	4	2	1			8	4	2	1
									07 -	- A. 140	Λrmi	ina/Di	sarmi	na.	L		1				1
	AL	DDR 04	34	User	User	A VAI User	1	ł				_	ming/l	-	mina		NOTE: Th	ese on	enina	events	s will
User Opening Telco 1	LEF'	T R	IGHT	00	99	98	97	l					_		_	1	report as t		_		
		M		8	4	2 1			er 00 =		•			igs in	ot apiii	cabic, [	report as the user number ones				
	T			<u> </u>				,									DR 0436 RIGHT DATA VALUES				
	_		A VALI	T	AD	DR 04	135		HT DAT		1		TDAT	A VAL	UES	ADD	R 0436	User	User	A VAL	Use
User Closing Telco 1	User	User	User 6	User 5	LEFT	F	RIGHT	User 4	User 3	User 2	User 1	User 16	User 15	14	13	LEFT	RIGHT	12	11	10	9
Telco i	8	7						8	4	1	1	8	4	2	1			8	4	2	1
	8	4	2	1				8	4		<u> </u>	L °	-		<u> </u>			<u> </u>		L	<u></u>
	LEF	T DAT	A VAL	UES	AD	DR 04	438	RIGI	HT DA	T	T .		T DAT	T	$\overline{}$	ADD	R 0437		IT DAT	1	1
User Closing	User	User	User	User	LEFT	r   F	RIGHT	User	User	User	User	User	User	User	User 21	LEFT	RIGHT	User 20	User 19	User 18	Use 17
Telco 1	32	31	30	29				28	27	26	25	24	23	22	†		<del> </del>	8	4	2	<b>†</b>
	8	4	2	1	<u></u>			8	4	1	1	8	<u> </u>		1	,		•	4		1
	ΑI	DDR 04	139	RIG	HT DAT	A VA	LUES	Use	r 97 =	· Auto	Armi	ng/Di	sarmii	ng							
User Closing	LEFT   RIGHT			RIGHT User User User				User 98 = Quickloader Arming/Disarming									NOTE: Th		-		
Telco 1	00		99	98	97	Use	User 99 = Easy Arming (Openings not aplicable) User 00 = Keyswitch Arming									he use	r numl	ber sh	own.		
	Mark (	1.		8	4	2	1														
		ــــــــــــــــــــــــــــــــــــــ		.1	<b>1</b>		<u> </u>	Use	r 00 =	Keys	switch	Armi	ng								
	LEF	T DAT	A VAL	UES	AD	DR 0	1	ř	r 00 = HT DA	<u>_</u>		т	ng T DAT	A VAL	UES	ADD	R 0441	RIGI	HT DAT	A VAL	.UES
User Opening	LEF User	T DAT	A VAL User	UES			440	ř		<u>_</u>	UES	LE	T DAT	1	T		ŀ	RIGI User	HT DAT	TA VAL	T
User Opening Telco 3			T	T	AD LEF1		1	RIGI	HT DA	ra val	UES	LE	T DAT	User 14	T	ADD LEFT	R 0441 RIGHT			Γ	T
	User	User	User	User			440	RIGI User	HT DA	TA VAL	UES	LE! User	T DAT	User	User		ŀ	User	User	User	Use
	User 8 8	User 7 4	User 6	User 5	LEFT		440 RIGHT	RIGI User 4 8	User	User 2	UES User 1	LEI User 16 8	User	User 14 2	User 13	LEFT	ŀ	User 12 8	User 11	User 10 2	Use 9
Telco 3 User Opening	User 8 8	User 7 4	User 6 2	User 5	LEF1	DDR 0	140 RIGHT	RIGI User 4 8	User 3	User 2	UES User 1 1	LEI User 16 8	User 15	User 14 2	User 13 1 UES	LEFT	RIGHT	User 12 8	User 11 4	User 10 2	Use 9 1 UES
Telco 3	User 8 8 LEF	User 7 4 T DAT	User 6 2 A VAL	User 5 1 UES	LEFT	DDR 0	440 RIGHT	RIGI User 4 8	User 3 4	User 2 1	UES User 1 1	LEI User 16 8	User 15 4	User 14 2 A VAL	User 13 1 UES	LEFT	RIGHT	User 12 8 RIG	User 11 4 HT DAT	User 10 2	Use 9 1 UES Use
Telco 3 User Opening	User 8 8 LEF User	User 7 4 T DAT User	User 6 2 A VAL User	User 5 1 UES User	LEF1	DDR 0	140 RIGHT	RIGI User 4 8 RIGI User	User 3 4 HT DA	TA VAL User 2 1 TA VAL	UES User 1 1 UES User	LEI User 16 8 LEI User	User 15 4 FT DAT	User 14 2 A VAL User	User 13 1 UES User	LEFT	RIGHT	User 12 8 RIGI User	User 11 4 HT DAT	User 10 2 TA VAL User	Use 9 1 UES Use
Telco 3 User Opening	User 8 8 LEF User 32 8	User 7 4 T DAT User 31	User 6 2 A VAL User 30 2	User 5 1 UES User 29 1	LEF1	DDR 0	440 RIGHT 443 RIGHT	RIGI User 4 8 RIGI User 28	User 3 4 HT DA User 27 4	TA VALUSER  1 TA VALUSER 26 1	UES User 1 1 UES User 25	LEI User 16 8 LEI User 24	User 15 4 FT DAT User 23	User 14 2 A VAL User 22 2	User 13 1 UES User 21	LEFT	RIGHT	User 12 8 RIGI User 20	User 11 4 HT DAT User 19	User 10 2 TA VAL User 18	Use 9 1 -UES Use 17
Teico 3 User Opening Telco 3 User Opening	User 8 8 LEF User 32 8	User 7 4 T DAT User 31 4 DDR 04	User 6 2 A VAL User 30 2	User 5 1 UES User 29 1 RIG	AD	DDR 0	440 RIGHT 443 RIGHT	RIGI User 4 8 RIGI User 28 8 Use	User 3 4 HT DA User 27 4 er 97 =	User 2 1 TA VAL User 26 1	UES User 1 1 UES User 25 1 Armi	LEI User 16 8 LEI User 24 8	User 15 4 FT DAT User 23	User 14 2 A VAL User 22 2	User 13 1 UES User 21	LEFT	RIGHT R 0442 RIGHT	User 12 8 RIGI User 20	User 11 4 HT DAT User 19 4	User 10 2  TA VAL User 18 2	Use 9 1 USE 17
Telco 3 User Opening	User 8 8 LEF User 32 8 ALEF	User 7 4 T DAT User 31 4 DDR 04	User 6 2 A VAL User 30 2	User 5 1 UES User 29 1 RIG	AD LEFT	DDR 0	440 RIGHT 443 RIGHT	RIGI User 4 8 RIGI User 28 8 Use	User 3 4 HT DA User 27 4 er 97 = er 98 =	TA VAL User 2 1 TA VAL User 26 1 = Auto	UES User 1 1 UES User 25 1 Armickload	LEI User 16 8 LEI User 24 8 ing/Di	User 15 4 FT DAT User 23 4 sarmi	User 14 2 A VAL User 22 2 ng Disarr	User 13 1 UES User 21 1	LEFT	RIGHT	User 12 8 RIG User 20 8	User 11 4 HT DAT User 19 4	User 10 2 TA VAL User 18 2	Use 9 1 UES Use 17 1
Teico 3 User Opening Telco 3 User Opening	User 8 8 LEF User 32 8	User 7 4 T DAT User 31 4 DDR 04	User 6 2 A VAL User 30 2	User 5 1 UES User 29 1 RIG User	AD LEFT	DDR 0	443 RIGHT  LUES User	RIGI User 4 8 RIGI User 28 8 User Use Use	User 3 4 HT DA User 27 4 er 97 = er 98 =	TA VAL User 2 1 TA VAL User 26 1 = Auto	UES User 1 UES User 25 1 Armickload	LEI User 16 8 LEI User 24 8 ing/Di ler Ari	User 15 4 FT DAT User 23 4 sarmi ming/l	User 14 2 A VAL User 22 2 ng Disarr	User 13 1 UES User 21 1	ADD LEFT	RIGHT R 0442 RIGHT	User 12 8 RIG User 20 8	User 11 4 HT DAT User 19 4	User 10 2 TA VAL User 18 2	Use 9 1 UES Use 17 1
Teico 3 User Opening Telco 3 User Opening	User 8 8 LEF User 32 8 ALEF	User 7 4 T DAT User 31 4 DDR 04 T F	User 6 2 A VAL User 30 2	User 5 1 UES User 29 1 RIG User 00 8	LEFT LEFT HT DAT User 99 4	DDR 0	A443 RIGHT  LUES User 97 1	RIGI User 4 8 RIGI User 28 8 Use Use Use Use	User 3 4 HT DA User 27 4 er 97 = er 98 = er 99 =	TA VAL User 2 1 TA VAL User 26 1 = Auto = Quice = Easy = Keys	UES USER 1 1 UES USER 25 1 O Armickload y Arm	LEI User 16 8 LEI User 24 8 ing/Di Ier Ari	User 15 4 FT DAT User 23 4 sarmi ming/l	User 14 2 A VAL User 22 2 ng Disarr	User 13 1 UES User 21 1 ming ot aplice	ADD LEFT	RIGHT R 0442 RIGHT	User 12 8 RIGI User 20 8	User 11 4 HT DAT User 19 4	User 10 2  TA VAL User 18 2 event ber sh	Use 9 1 Use 17 1
User Opening Telco 3  User Opening Telco 3	User 8 8 LEF User 32 8 ALEF	User 7 4 T DAT User 31 4 DDR 04 T F	User 6 2 A VAL User 30 2 444 RIGHT	User 5 1 UES User 29 1 RIG User 00 8	LEFT  HT DAT  User 99 4	T FA VA User 98 2	443 RIGHT  LUES User 97 1	RIGI User 4 8 RIGI User 28 8 Use Use Use Use	User 3 4 HT DA User 27 4 er 97 = er 98 = er 99 = er 00 =	TA VAL User 2 1 TA VAL User 26 1 = Auto = Quice = Easy = Keys	UES USer 1 1 UES User 25 1 Armickload y Arm	LEI User 16 8 LEI User 24 8 ing/Di ler Ari	User 15 4 FT DAT User 23 4 sarmi ming/I penir	User 14 2 A VAL User 22 2 ng Disarr	USER 13 1 UES User 21 1 ning ot aplice	LEFT LEFT Cable)	R 0442 RIGHT  NOTE: Treport as	User 12 8 RIGI User 20 8	User 11 4 HT DAT User 19 4	User 10 2  TA VAL User 18 2 event	Use 9 1 LUES Use 17 1
User Opening Telco 3	User 8 8 LEF User 32 8 LEF	User 7 4 T DAT User 31 4 DDR 04 T F	User 6 2 A VAL User 30 2 444 RIGHT	User 5 1 UES User 29 1 RIG User 00 8	LEFT LEFT HT DAT User 99 4	T FA VA User 98 2	A443 RIGHT  LUES User 97 1	RIGI User 4 8 RIGI User 28 8 Use Use Use Use RIGI	User 3 4 HT DA User 27 4 er 97 = er 98 = er 99 = er 00 = HT DA	TA VAL User 2 1 TA VAL User 26 1 E Auto E Quice E Easy Keys	UES USer 1 1 UES User 25 1 Armickload y Arm	LEI User 16 8 LEI User 24 8 ing/Di ler Ari	User 15 4 FT DAT User 23 4 sarmi ming/I Dpenir ing FT DAT	User 14 2 TA VAL User 22 2 ng Disarr ngs no	USER 13 1 UES User 21 1 ning ot aplice	ADD LEFT	RIGHT R 0442 RIGHT NOTE: The report as	User 12 8 RIGI User 20 8 nese of the use	User 11 4 HT DAT User 19 4 Deninger num	User 10 2 FA VAL User 18 2 event ber sh	Use 9 1 LUES Use 17 1
User Opening Telco 3  User Opening Telco 3	User 8 8 LEF User 32 8 LEF User	User 7 4 T DAT User 31 4 DDR 04 T F	User 6 2 A VAL User 30 2 144 RIGHT TA VAL User	User 5 1 UES User 29 1 RIG User 00 8 UES User	LEFT  HT DAT  User 99 4	T FA VA User 98 2	443 RIGHT  LUES User 97 1	RIGI User 4 8 RIGI User 28 8 Use Use Use Use RIGI User	User 3 4 HT DA User 27 4 er 97 = er 98 = er 00 = er 00 = HT DA User	TA VAL User 2 1 TA VAL User 26 1 = Auto = Quic = Easy = Keys TA VAL User	USER  1 USER 25 1 O Armickload y Armswitch UES USER	LEI User 16 8 LEI User 24 8 ing/Di ler Arri	User 15 4 FT DAT User 23 4 sarmi ming/I Dpenir ing FT DAT User	User 14 2 A VAL User 22 2 Disarr ngs no	USER 13 1 UES User 21 1 ning ot aplic	LEFT LEFT Cable)	R 0442 RIGHT  NOTE: Treport as	RIGI RIGI User 20 8 RIGI RIGI RIGI User	User 11 4 HT DAT User 19 4 Deninger num HT DAT User	User 10 2 TA VAL User 18 2 event ber sh	Use 9 1 LUES 17 1 ts will nown
User Opening Telco 3 User Opening Telco 3 User Closing	User 8 8 LEF User 32 8 LEF User 8 8	User 7 4 T DAT User 31 4 DDR 04 T F T DAT User 7 4	User 6 2 A VAL User 30 2 MACHE STATE	User 5 1 UES User 29 1 RIG User 00 8 UES User 5	LEFT  HT DAT  User 99 4  AD	T FA VA User 98 2 DDR 0	A443 RIGHT  LUES User 97 1 4445 RIGHT	RIGI User 4 8 RIGI User 28 8 Use Use Use Use RIGI User 4 8	User 3 4  HT DA User 27 4  er 97 = er 98 = er 00 = er 00 = HT DA User 3 4	TA VAL User 2 1 TA VAL User 26 1 E Auto E Easy Keys TA VAL User 2 1	UES USer 1 1 UES User 25 1 Armickload y Arm switch UES User 1	LEI User 16 8 LEI User 24 8 ing/Di ler Arni Ing (Con Armi LEI User 16 8	User 15 4 FT DAT User 23 4 Sarmi ming/IDpeniring FT DAT User 15 4	User 14 2 A VAL User 22 2 Disarr ngs no A VAL User 14 2	UES User 21 1 ues a plice of aplice of aplice ues user 13 1	LEFT Cable)  ADD	RIGHT  R 0442  RIGHT  NOTE: TI report as  R 0446  RIGHT	RIGI User 20 8 RIGI User 20 RIGI RIGI User 12 8	User 11 4 HT DAT User 19 4 Deninger num HT DAT User 11 4	User 10 2 TA VAL User 18 2 event ber sh User 10 2	Use 9 1 LUES Use 177 1 Use 99 1
User Opening Telco 3  User Opening Telco 3  User Closing Telco 3	User 8 8 LEF User 32 8 LEF User 8 8	User 7 4 T DAT User 31 4 DDR 04 T F T DAT User 7 4	User 6 2 A VAL User 30 2 144 RIGHT A VAL User 6 2	User 5 1 UES User 29 1 RIG User 00 8 UES User 5 1	LEFT  HT DAT  User 99 4  AD	T FA VA User 98 2	A443 RIGHT  LUES User 97 1 4445 RIGHT	RIGI User 4 8 RIGI User 28 8 Use Use Use Use RIGI User 4 8	User 27 4 er 97 = er 99 = er 00 = HT DA	TA VAL User 2 1 TA VAL User 26 1 E Auto E Easy Keys TA VAL User 2 1	UES USer 1 1 UES User 25 1 Armickload y Arm switch UES User 1 1	LEI User 16 8 LEI User 24 8 ing/Di ler Arni ing (Ci Armi LEI User 16 8 LEI	User 15 4 FT DAT User 23 4 sarmi ming/I Denir ing FT DAT User 15 4 FT DAT	User 14 2 A VAL User 22 2 Disarr ngs no A VAL User 14 2	UES USER 21 1 UES User 21 1 UES USER 13 1 UES	LEFT Cable)  ADD	R 0442 RIGHT  NOTE: Treport as	RIGI User 20 8 RIGI User 20 RIGI RIGI RIGI User 12 RIGI	User 11 4 HT DAT User 19 4 Deninger num HT DAT User 11 4 HT DAT	User 10 2 TA VAL User 18 2 TA VAL User 10 2 TA VAL User 10	Use 177 1 ts will nown
User Opening Telco 3 User Opening Telco 3 User Closing	User 8 8 LEF User 32 8 LEF User 8 LEF User 8 LEF	User 7 4 T DAT User 31 4 DDR 04 T F T DAT User 7 4	User 6 2 A VAL User 30 2 144 RIGHT A VAL User 6 2	User 5 1 UES User 29 1 RIG User 00 8 UES User 5 1	LEFT  HT DAT  User 99 4  AD	FA VA User 98 2 DDR 0	A443 RIGHT  LUES User 97 1 4445 RIGHT	RIGI User 4 8 RIGI User 28 8 Use Use Use RIGI User 4 8 RIGI	User 3 4  HT DA User 27 4  er 97 = er 98 = er 00 = er 00 = 4  User 3 4  HT DA User 3 4	TA VAL User 2 1 TA VAL User 26 1 = Auto = Quic = Easy = Keys TA VAL User 2 1	UES USer 1 1 UES User 25 1 Armickload y Arm switch UES User 1 1	LEI User 16 8 LEI User 24 8 ing/Di ler Arni ing (Ci Armi LEI User 16 8 LEI	User 15 4 FT DAT User 23 4 sarmi ming/I Denir ing FT DAT User 15 4 FT DAT	User 14 2 A VAL User 22 2 Disarr ngs no (A VAL User 14 2 A VAL	UES USER 21 1 UES User 21 1 UES USER 13 1 UES	LEFT Cable)  ADD	RIGHT  R 0442  RIGHT  NOTE: TI report as  R 0446  RIGHT	RIGI User 20 8 RIGI User 20 RIGI RIGI User 12 8	User 11 4 HT DAT User 19 4 Deninger num HT DAT User 11 4	User 10 2 TA VAL User 18 2 event ber sh User 10 2	Use 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
User Opening Telco 3  User Opening Telco 3  User Closing Telco 3	User 8 8 LEF User 32 8 LEF User 8 LEF User 8 8 LEF	User 7 4 T DAT User 31 4 DDR 04 T F T DAT User 7 4 T DAT User User	User 6 2 A VAL User 30 2 144 RIGHT  A VAL User 6 2 A VAL User	USER 5 1 UES USER 29 1 RIG USER 00 8 UES USER 5 1 UES USER	LEFT  HT DAT  User 99 4  AD	FA VA User 98 2 DDR 0	A443 RIGHT  LUES User 97 1  445 RIGHT	RIGI User 4 8 RIGI User 28 8 Use Use Use RIGI User 4 8 RIGI	User 3 4  HT DA User 27 4  Er 97 = 27 98 = 27 99 = 27 00 = 27	TA VAL User 2 1 TA VAL User 26 1 = Auto = Quic = Easy = Keys TA VAL User 2 1 TA VAL User	USER 1 1 1 USER 25 1 1 O Armickload y Arm Switch USER 1 1 USER 1 USER USER USER USER USER USER USER USER	LEI User 16 8 LEI User 24 8 ing/Di ler Arti ing (Ci Armi LEI User 16 8 LEI User	User 15 4 FT DAT User 23 4 Sarmi ming/I Denir 15 User 15 4 FT DAT User 15 4 FT DAT User 15	User 14 2 A VAL User 22 2 Disarr ngs no (A VAL User 14 2 A VAL User	UES USER 21 1 UES USER 21 1 UES USER 13 1 UES USER USER	LEFT Cable)  ADD	R 0442 RIGHT  NOTE: Treport as  R 0446 RIGHT	RIGI User 20 8 RIGI User 20 RIGI RIGI User 12 RIGI User 12 RIGI User	User 11 4 HT DAT User 19 4 Deninger num HT DAT User 11 4 HT DAT User	User 10 2  TA VAL User 18 2  TA VAL User 10 2  TA VAL User	Use 17 1 1 Use 17 1 Use 17 1 Use 17 1 Use 17 1 Use 17 1 Use 17 1 Use 17 17 Use 17 17 Use 17 Use 18 U
User Opening Telco 3  User Opening Telco 3  User Closing Telco 3	User 8 8 LEF User 32 8 LEF User 8 LEF User 8 8 LEF User 8 8	User 7 4 T DAT User 31 4 DDR 02 T F T DAT User 7 4 T DAT User 31 4	User 6 2 A VAL User 30 2 144 RIGHT  A VAL User 6 2 A VAL User 30 2	USER 5 1 UES USER 29 1 RIG USER 00 8 UES USER 5 1 UES USER 29 1	LEFT  HT DAT  User 99 4  AD  LEFT	T FA VA User 98 2 DDR 0 T F	A443 RIGHT LUES User 97 1 4445 RIGHT	RIGI User 4 8 RIGI User 28 8 Use Use Use Use RIGI User 4 8 RIGI User 28 8	User 3 4  HT DA User 27 4  er 97 = er 98 = er 00 = er 00 = 4  HT DA User 3 4  HT DA User 3 4  User 4	TA VAL User 2 1 TA VAL User 26 1 E Auto E Easy Keys TA VAL User 2 1 User 2 1 User 1 User 1	UES USer 1 1 UES User 25 1 Armickload y Arm switch UES User 1 1 UES User 1 1	LEI User 16 8 LEI User 24 8 ing/Di ler Armi LEI User 16 8 LEI User 24 8	User 15 4 FT DAT User 23 4 Sarmi ming/IDpeniring FT DAT User 15 4 FT DAT User 23 4	User 14 2 A VAL User 22 2 Disarr ngs no A VAL User 14 2 A VAL User 22 2	UES User 21 1 UES User 21 1 UES User 13 1 UES User 13 1	LEFT Cable)  ADD	R 0442 RIGHT  NOTE: Treport as  R 0446 RIGHT	RIGIUSER 20 RIGIUSER 20	User 11 4 HT DAT User 19 4 Deninger num HT DAT User 11 4 HT DAT User 19	User 10 2 TA VAL User 18 2 TA VAL User 10 2 TA VAL User 10 18	Use 9 1 1 UES Use 9 1 1 UES Use 17 1 UES 17 1 UES 17 1 UES 17 1 UES 17 17 UES 17 17 UES 17 17 17 17 17 17 17 17 17 17 17 17 17
User Opening Telco 3  User Opening Telco 3  User Closing Telco 3  User Closing Telco 3	User 8 8 LEF User 32 8 LEF User 8 8 LEF User 8 8 Al	User 7 4 T DAT User 31 4 DDR 04 T F T DAT User 7 4 T DAT User 31 4 DDR 04	User 6 2 A VAL User 30 2 MAA RIGHT CA VAL User 6 2 A VAL User 30 2	USER 5 1 UES USER 29 1 RIG USES USER 5 1 UES USER 29 1 RIG	LEFT  HT DAT  User 99 4  AD  LEFT  AD  LEFT	T FA VA User 98 2 DDR 0 T F	443 RIGHT LUES User 97 1 445 RIGHT	RIGI User 4 8 RIGI User 28 8 Use Use Use RIGI User 4 8 RIGI User 28 8	User 3 4  HT DA User 27 4  er 97 = er 98 = er 00 = er	TA VAL User 2 1 TA VAL User 26 1 = Auto = Quic = Easy = Keys TA VAL User 2 1 TA VAL User 2 1 User 2 1	USES USER 25 1 O Armickload y Arm Switch UES USER 1 1 UES USER 25 1 1 UES USER 1 1 UES	LEI User 16 8 LEI User 24 8 ing/Di ler Arti ing (Ci Armi LEI User 16 8 LEI User 24 8 ik) from	User 15 4 FT DAT User 23 4 Sarming/IDpeniring FT DAT User 15 4 FT DAT User 23 4 address	User 14 2 A VAL User 22 2 Disarr ngs no A VAL User 14 2 A VAL User 22 2 A VAL User 22 2 S 0430	UES USer 21 1 UES User 21 1 UES USER 13 1 UES USER 21 1 -0449	LEFT Cable)  ADD LEFT ADD LEFT	RIGHT  R 0442 RIGHT  NOTE: The report as R 0446 RIGHT  R 0447 RIGHT	RIGI User 20 8 RIGI User 20 RIGI User 12 RIGI User 12 8 RIGI User 12 8	User 11 4 HT DAT User 19 4 HT DAT User 11 4 HT DAT User 11 4 HT DAT User 19 4	User 10 2  TA VAL User 18 2  TA VAL User 10 2  TA VAL User 10 2  TA VAL User 18 2	Use 9 1 UES 17 1 UES Use 9 1 USE 17 1 USE 17 1 USE 17 1
User Opening Telco 3  User Opening Telco 3  User Closing Telco 3	User 8 8 LEF User 32 8 LEF User 8 LEF User 8 8 LEF User 8 8	User 7 4 T DAT User 31 4 DDR 04 T F T DAT User 7 4 T DAT User 31 4 DDR 04	User 6 2 A VAL User 30 2 144 RIGHT  A VAL User 6 2 A VAL User 30 2	USER 5 1 UES USER 29 1 RIG USER 00 8 UES USER 5 1 UES USER 29 1	LEFT  HT DAT  User 99 4  AD  LEFT  AD  LEFT	T FA VA User 98 2 DDR 0 T F	443 RIGHT LUES User 97 1 445 RIGHT	RIGI User 4 8 RIGI User 28 8 Use Use Use RIGI User 4 8 RIGI User 28 8	User 3 4  HT DA User 27 4  1 1 97 = 1 98 = 1 99 = 1	TA VAL User 2 1 TA VAL User 26 1 = Auto = Quice = Easy = Keys TA VAL User 2 1 TA VAL User 2 1 User 2 1 User 2 1 User	USER  1 USER 25 1 O Armickload y Armswitch USER USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1 USER 1	LEI User 16 8 LEI User 24 8 ing/Di ler Arni ing (C Armi LEI User 16 8 LEI User 24 8 ik) from esired	User 15 4 FT DAT User 23 4 Sarming/IDpeniring FT DAT User 15 4 FT DAT User 23 4 address	User 14 2 A VAL User 22 2 Disarr ngs no A VAL User 14 2 A VAL User 22 2 A VAL User 22 2 S 0430	UES USer 21 1 UES User 21 1 UES USER 13 1 UES USER 21 1 -0449	LEFT Cable)  ADD LEFT ADD LEFT	R 0442 RIGHT  NOTE: Treport as  R 0446 RIGHT	RIGI User 20 8 RIGI User 20 RIGI User 12 RIGI User 12 8 RIGI User 12 8	User 11 4 HT DAT User 19 4 HT DAT User 11 4 HT DAT User 11 4 HT DAT	User 10 2  TA VAL User 18 2  TA VAL User 10 2  TA VAL User 10 2  TA VAL User 18 2	Use 9 1 LUES 17 1 ts will nown.  Use 9 1 LUES Use 9 1 LUES 17 1
User Opening Telco 3  User Opening Telco 3  User Closing Telco 3  User Closing Telco 3	User 8 8 LEF User 32 8 LEF User 8 8 LEF User 8 8 Al	User 7 4 T DAT User 31 4 DDR 04 T F T DAT User 7 4 T DAT User 31 4 DDR 04 T F	User 6 2 A VAL User 30 2 MAA RIGHT CA VAL User 6 2 A VAL User 30 2	USER 5 1 UES USER 29 1 RIG USER 5 1 UES USER 5 1 UES USER 1 USER 29 1 RIG USER	LEFT  HT DAT  User  99  4  LEFT  AD  LEFT  HT DAT	T FA VA User  TA VA User  TA VA User	443 RIGHT LUES User 97 1 445 RIGHT  448 RIGHT  LUES	RIGI User 4 8 RIGI User 28 8 Use Use Use RIGI User 4 8 RIGI User 4 8 RIGI	User 3 4  HT DA User 27 4  er 97 = er 98 = er 99 = er 00 = HT DA User 3 4  HT DA User 3 4  HT DA User 3 ( )	TA VAL User 2 1 TA VAL User 26 1 E Auto E Easy Keys TA VAL User 2 1 TA VAL User 2 1 Collank Gelect eft an	UES USer 1 1 UES User 25 1 Armickload y Arm switch UES User 1 UES User 1 1 UES User 1 1 UES User 1 O Armickload y Arm switch UES User 1 O Armickload y Arm switch UES User 1 O Armickload y Arm switch UES User 1 O Armickload y Arm switch	LEI User 16 8 LEI User 24 8 ing/Di Ier Arni Ing (C) Armi LEI User 16 8 LEI User 24 8 ak) from esirecont).	User 23 4 Sarmi ming/IDpening 15 4 FT DAT User 15 4 FT DAT User 23 4 address d opticing	User 14 2 CA VAL User 22 2 Disarr 14 2 CA VAL User 14 2 CA VAL User 22 2 SS 0430 On by	UES User 21 1  UES User 21 1  UES User 13 1  UES User 13 1  UES User 13 1  UES User 21 1  -0449]	LEFT  ADD  LEFT  ADD  LEFT	RIGHT  R 0442 RIGHT  NOTE: The report as R 0446 RIGHT  R 0447 RIGHT	RIGIUser 12 8 RIGIUser 12 8 RIGIUser 20 8	User 11 4 User 19 4 Deninger num HT DAT User 11 4 HT DAT User 11 4 Or eac	User 10 2 ITA VAL User 18 2 ITA VAL User 10 2 ITA VAL User 10 2 ITA VAL User 18 2	Use 9 1 LUES 17 1 ts will nown.  Use 9 1 LUES Use 9 1 LUES 17 1



User 99 = Easy Arming (Openings not aplicable)

User 00 = Keyswitch Arming



## ADDRESS 0737 TO 0742 (ENABLE EZM GROUP OPTIONS)

Group 1 (Zns. 9,10,11,12) ADDRESS 0737 LEFT RIGHT •(blank)

Group 2 (Zns. 13,14,15,16)							
ADDRE	SS 0738						
LEFT	RIGHT						
•(blank)							

Grou (Zns. 17,	up 3 18,19,20)
ADDRE	SS 0739
LEFT	RIGHT
•(blank)	

Group 4 (Zns. 21,22, 23,24)							
ADDRESS 0740							
LEFT	RIGHT						
•(blank)							

Group 5 (Zns. 25,26,27,28)						
ADDRESS 0741						
LEFT	RIGHT					
•(blank)						

Group 6 (Zns. 29,30,31,32)							
ADDRES	SS 0742						
LEFT	RIGHT						
•(blank)							

[Default = •(blank) •(blank)] [Default = •(blank) •(blank)] [Default = •(blank) •(blank)] [Default = •(blank) •(blank)] [Default = •(blank) •(blank)]

•	
EZM	TYPE
DATA ENTRIES	OPTION
RIGHT	
• (blank)	Not Used
1	4-Zone EZM
4	2-Zone FZM

**EZM TYPES:** Up to 6 Groups of 4 Zones each may be programmed depending on the number of zones used and which EZM modules are connected. **NOTE:** Each 4 zone EZM represents 1 group; each 8 zone EZM represents 2 groups. *If Zone Doubling is enabled* (Address 0721), then the basic zone configuration increases from 8 to 16. In this case, groups 1 and 2 must not be used.

1. Select EZM type from the table shown.

2. Enter in corresponding address locations above (right digit only).

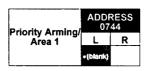
NOTE: Dark shaded data value box shows option not avialable.

## ADDRESS 0743 & 0744 (AREA ARMING OPTIONS)



[Default = •(blank) •(blank)]

PIRORITY ARMING/AREA 1							
DATA E	DATA ENTRIES						
LEFT	RIGHT	OPTION					
• (blank)	• (blank)	Not Used					
• (blank)	2	Enabled					



[Default = •(blank) •(blank)]

PIRORITY ARMING/AREA 2							
DATA ENTRIES OPTION							
LEFT	RIGHT	OFTION					
• (blank)	• (blank)	Not Used					
• (blank)	1	Enabled					

#### PRIORITY AREA ARMING:

- 1. Select option from the table shown.
- 2. Enter in corresponding right digit address location (left digit is not used).

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

#### ADDRESS 0745 TO 0749 (AREA BELL CONTROL OPTIONS) Burglary Output Turns Off upon Disarm RIGHT DATA VALUES **Pulse Output Turns Off RIGHT DATA Output Turns Off Output Turns Off** upon Disarm VALUES when when this Area Disarms this Area Disarms (CIRCLE ADDRESS 0745 ADDRESS 0746 (CIRCLE 🖋 **RIGHT DIGIT RIGHT DIGIT** 1 Area 1 Area 1 **LEFT DIGIT** (SUM OF DATA VALUES **LEFT DIGIT** (SUM OF DATA VALUES 2 Area 2 2 Area 2 4 (blank) Reserved •(blank) 4 Reserved 8 Reserved 8 Reserved [Default = •(blank) •(blank)] [Default = •(blank) •(blank)] **PGM1 Output Turns Off RIGHT DATA PGM2 Output Turns Off** RIGHT DATA **Output Turns Off Output Turns Off** upon Disarm **VALUES** upon Disarm VALUES when this Area Disarms (CIRCLE 🖋 ADDRESS 0747 ADDRESS 0749 this Area Disarms (CIRCLE 🖋 **RIGHT DIGIT RIGHT DIGIT** Area 1 Area 1 **LEFT DIGIT** (SUM OF DATA VALUES LEFT DIGIT (SUM OF DATA VALUES) 2 Area 2 2 Area 2 Reserved •(blank) • (blank) 4 Reserved

[Default = •(blank) •(blank)]

OUTPUT TURNS OFF UPON DISARM: Select options for any of the 4 Outputs.

8

1. Select the desired option by circling \* the data values for right digit only (left is not used).

Reserved

- 2. Add the data values (ex: 15=1+2+4+8) from the selected options.
- 3. Enter in right digit address location.

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

[Default = •(blank) •(blank)]

Reserved

## ADDRESS 0723 TO 0736 (KEYPAD OPTIONS)



[Default = •(blank) 1]

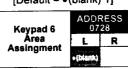
Keypad 5 Area	ADD8	RESS 27
Årea Assingment	L	R
7.55mg	•(blenk)	

[Default = •(blank) 1]

(				
KEYPAD	AREA ASS	IGNMENT		
DATA E	NTRIES	OPTION		
LEFT	RIGHT	OFTION		
• (blank)	1	Area 1		
• (blank)	2	Area 2		

Keypad 2	ADDR 072	
Area	L	R
Assingment	- (Marik)	

[Default = • (blank) 1]



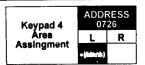
[Default = •(blank) 1]

Keypad 3 Area	ADDF 07	
	L	R
Assingment	+(btank)	

[Default = •(blank) 1]



[Default = • (blank) 1]



[Default = •(blank) 1]

KEYPAD AREA ASSIGNMENT: Up to 7 keypads may be programmed, if they are connected. NOTE: Keypad Number is configured by setting its jumper settings. By default from the factory, each

keypad is configured as number 1.

1. Select area assignment for each keypad from the table shown.

2. Enter in corresponding right digit address locations above (left digit is not used).

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

KEYPAD OPTIONS						ADDRESS		KEYPAD OPTIONS						
KEYPAD	LEFT	DATA VALI	JES (CIRCL	E 🐠)		0730-0736			RIGHT DATA VALUES (CIRCLE					
NO.	RSRVD	PANEL ACCESS	EASY ARMING	AMBUSH	LEFT	ADDR	RIGHT	RSRVD	KEYPAD PANIC	KEYPAD AUX.	KEYPAD FIRE			
1		4	2	1		0730			4	2	1			
2	Hair Walt	4	2	1		0731			4	2	1			
3	Granding To 194	4	2	1		0732		Berteiter Britister	4	2	1			
4	ALL PROPERTY.	4	2	1		0733			4	2	1			
5	OH WA	4	2	1		0734		11.	4	2	1			
6		4	2	1		0735			4	2	1			
7	The Harman	4	2	1		0736			4	2	1			

[Default = •(blank) •(blank) from address 0730-0736]

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

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

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

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

## ADDRESS 0490 TO 0592 (ZONE OPTIONS - ZONES 1 TO 16)

ZONE OPTIONS	ZONES LEFT DATA VALUES (CIRCLE )		S ADDRESS 0546-0592 RIGHT DATA VAL			`	ZONES LEFT DATA VALUES (CIRCLE )				ADDRESS 0490-0537		S 7	ZONES RIGHT DATA VALUES (CIRCLE 🖋)								
0, 1,0,10		ZN15			-	ADDR	R	1		ZN10		1		ZN06	T	L	ADDR	R	ZN04		ZN02	T
50ms Loop Response (1)	8	4	2	1		ADDIT		8	4	2	1	8	4	2	1	_	0490	N	8	4	2	1
Priority	8	4	2	1		0546		8	4	2	1	8	4	2	1		0491		8	4	2	i
Priority with Bypass	8	4	2	1		0547		8	4	2	1	8	4	2			0492		8	4	2	i
Auto-Bypass	8	4	2	1		0548		8	4	2	1	8	4	2	1		0493		8	4	2	1
Selective Bypass	8	4	2	1		0549		8	4	2	1	ě	4	2	1		0494		8	4	2	1
Keyswitch Arming	8	4	2	1	l	0550		8	4	2	i	8	4	2	i		0495		8	4	2	1
Auto-Bypass Re-entry	8	4	2	1		0551		8	4	2	1	8	4	2	i		0496		8	4	2	
Pre-Alarm Warning	8	4	2	1		0552		8	4	2	1	8	4	2	i		0497		8	4	2	Ιi
Never Arm	8	4	2	1		0553		8	4	2	1	8	4	2	1		0498		8	4	2	;
24-Hour Zone	8	4	2	1		0554		8	4	2	1	8	4	2			0499		8	4	2	1
Alarm Output	8	4	2	1		0555		8	4	2	1	8	4	2	1		0500		8	4	2	1
Pulse Alarm Output	8	4	2	1		0556		8	4	2	1	8	4	2	1		0501		8	4	2	1
PGM1 Output	8	4	2	1		0557		8	4	2	1	8	4	2			0502		8		2	1 1
PGM2 Output	8	4	2	1		0558		8	4	2	1	8	4	2			0502			4		1
Entry/Exit 1	8	4	2	1		0559		8	4	2	1	8	4	2					8	4	2	1
Entry/Exit 2	8	4	2	1		0560	•	8	4	2	1	8	4	2	1		0504		8	4	2	1
Exit/Entry Follower	8	4	2	1	1	0561		8	4					1	1		0505		8	4	2	1
Auto Reset	8	4	2			0562		8	1 '	2 2	1	8	4	2	1		0506		8	4	2	1
Swinger Shutdown	8	4	2	1		0562	ŀ	II.	4		1	8	4	2	1		0507		8	4	2	1
Chime	8	4	2	1		0564		8 8	4	2 2	1	8	4	2	1		0508		8	4	2	1
Abort Delay	l å	4	2	1		0565		li .	4	1	1 1	8	4	2	1		0509		8	4	2	1
Power-up Delay	8	4	2	1		0566		8	4	2	1	8	4	2	1		0510		8	4	2	1
Day Zone Open	ů	1	2					8	4	2	1	8	4	2	1		0511		8	4	2	1
Day Zone Short	8	4	2	1	1	0567		8	4	2	1	8	4	2	1		0512		8	4	2	1
Alarm on Day Zone	l °	4		1		0568		8	4	2	1	8	4	2	1		0513		8	4	2	1
Alarm Telco 1	8		2	1		0569		8	4	2	1 1	8	4	2	1		0514		8	4	2	1
Alarm Restore 1	8	4	2	1		0570		8	4	2	1	8	4	2	1		0515		8	4	2	1
		4	2	1		0571		8	4	2	1	8	4	2	1		0516		8	4	2	1
Trouble Telco 1	8	4	2	1		0572		8	4	2	1	8	4	2	1		0517		8	4	2	1
Trouble Restore 1	8	4	2	1		0573		8	4	2	1	8	4	2	¹ 1 ∥		0518		8	4	2	1
Alarm Telco 3	8	4	2	1		0574		8	4	2	1	8	4	2	1		0519		8	4	2	1 1
Alarm Restore 3	8	4	2	1		0575		8	4	2	1	8	4	2	1		0520		8	4	2	1
Trouble Telco 3	8	4	2	1		0576		8	4	2	1	8	4	2	1		0521		8	4	2	1
Trouble Restore 3	8	4	2	1		0577		8	4	2	1	8	4	2	1		0522	Ī	8	4	2	1
No EOL Resistor	8	4	2	1		0578		8	4	2	1	8	4	2	1		0523		8	4	2	1
Trouble on Open	8	4	2	1		0579	İ	8	4	2	1	8	4	2	1		0524		8	4	2	1
Trouble on Short	8	4	2	1		0580		8	4	2	1	8	4	2	1		0525		8	4	2	1
Zone Area 1	8	4	2	1		0581		8	4	2	1	8	4	2	1		0526		8	4	2	1
Zone Area 2	8	4	2	1		0582		8	4	2	1	8	4	2	1		0527	i	8	4	2	1
Interior Bypass	8	4	2	1		0583		8	4	2	1	8	4	2	1		0528	ŀ	8	4	2	1
Keypad Sounder on Alarm	8	4	2	1		0584		8	4	2	1	8	4	2	1		0529	1	8	4	2	1
2-Wire Smoke Detectors (2)	0		<b>16</b> 7114								<b>武</b> 簿	8	4				0530	15" 13			Name of the last	***
Fire	8	4	2	1		0586	l	8	4	2	1	8	4	2	4		0531		8	4	2	1
Fire Alarm Verification (3)	8	4	2	1		0587		8	4	2	1	8	4	2	1		0532		8	4	2	1
RF Car Alarm	8	4	2	1		0588		8	4	2	1	8	4	2	1		0533		8	4	2	1
Zone ANDing Group 1	8	4	2	1		0589		8	4	2	1	8	4	2	1		0534		8	4	2	1
Zone ANDing Group 2	8	4	2	1		0590		8	4	2	1	8	4	2	1		0535		8	4	2	i
Zone ANDing Group 3	8	4	2	1		0591	Į.	8	4	2	1	8	4	2	1		0536	i	8	4	2	1
Zone ANDing Group 4	8	4	2	_1_		0592		8	4	2	1	8	4	2	1		0537		8	4	2	;
1	t_				1		1	1			_	Ł			ٔ ﴿	1		1	Ĺ			•
<b>1</b> 1		B	² 2	ı	B	4	B.	4	Ę	I ₹2			æ€	2	ı		4 D	ॐ ५ ∎	4	I <b>⊋</b>	P 2	

1. Select the desired zone option.

1 2. Enable desired options for each zone by drawing a circle around its corresponding binary data

NOTE: No circle = feature

disa	abled			
ZN04	ZN03	ZN02	ZN01	
8	4	2	1	Draw Circle

🖙 3. Look up table for data entry.

DIGIT VALUE	DATA ENTRY	DIGIT VALUE	DATA ENTRY
8 4 2 1	Blank (•)	8 4 2 1	8
8 4 2 ①	1	8 4 2 1	9
8 4 2 1	2	8 4 2 1	0
8 4 2 1	3	8 4 2 1	В
8 4 2 1	4	8 4 2 1	С
8 4 2 1	5	8 4 2 1	D
8 4 2 1	6	8 4 2 1	E
8 4 2 1	7	8421	F

4. Enter data in address locations (left and right digits).

ADDR	ESS LOC	ATION
L	ADDR	R
•(blank)	0490	1

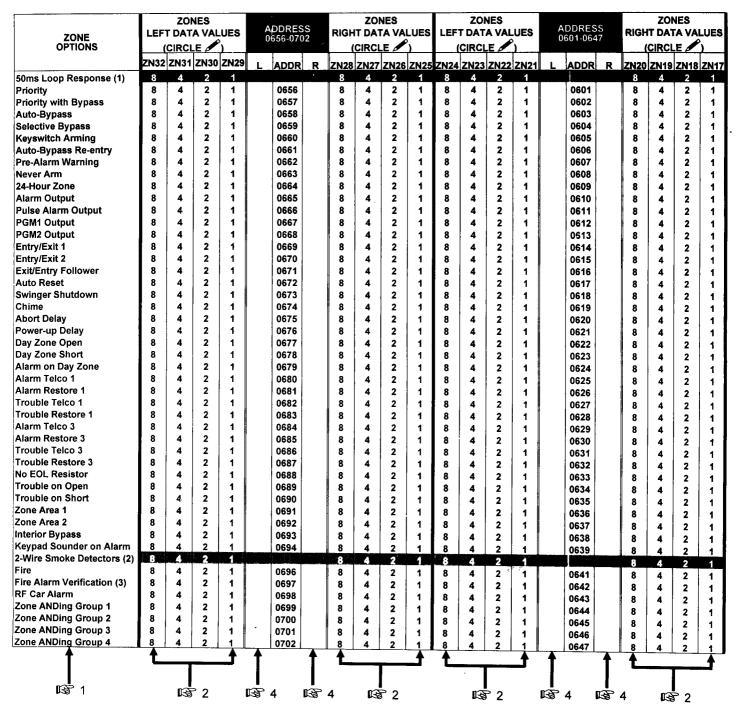
NOTE: Dark shaded data value box shows option not avialable.

NOTE: See Direct Address Programming Example on page 20.

NOTES: 1. 50ms Loop Response only available for zones 1-8.

- 2. 2-wire Smoke Detectors only available for zones 7 & 8.
- 3. If Fire Alarm Verification is selected, then Fire must also be selected





1. Select the desired zone option

zone option.
ZONE OPTIONS
50ms Loop Response
Priority
Priority with Bypass
Auto-Bypass
Selective Bypass

2. Enable desired options for each zone by drawing a circle around its corresponding binary data

NOTE: No circle = feature

aisa	abled	1.		<b>(4)</b>
ZN20	ZN19	ZN18	ZN17	
8	4	2	1	Draw Circle

13. Look up table for data entry.

DIGIT VALUE	DATA ENTRY	DIGIT VALUE	DATA ENTRY
8 4 2 1	Blank (•)	8 4 2 1	8
8 4 2 ①	1	8 4 2 1	9
8 4 2 1	2	8 4 2 1	0
8 4 2 1	3	8 4 2 1	В
8 4 2 1	4	8 4 2 1	С
8 4 2 1	5	8 4 2 1	D
8 4 2 1	6	8 4 2 1	E
8 4 2 1	7	(8)(4)(2)(1)	F

4. Enter data in address locations (left and right digits).

ADDR	ADDRESS LOCATION						
L	ADDR	R					
•(blank)	0603	1					

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

NOTES: 1. 50ms Loop Response only available for zones 1-8.

value

- 2. 2-wire Smoke Detectors only available for zones 7 & 8.
- 3. If Fire Alarm Verification is selected, then Fire must also be selected.

NOTE: See Direct Address Programming Example on page 20.







## ADDRESS 1038 TO 1053 & 1180 (RF RECEIVERS & SUPERVISORY TIMERS)

Number of		RESS 80	DATA ENTRIES	Number of RF Receivers
RF Receivers	L	R	RIGHT	Receivers
	*(blank)		• (blank)	None
			1	1
			2	2

Default for Number of Receivers depends on Easy Menu Question for RF Transmitters. RF RECEIVERS: Up to 2 RF Receivers may be programmed. NOTE: This adds wireless capability to the system, increasing up to 32 the number of zones.

- 1. Select the number of receivers from the table shown.
- 2. Enter in corresponding right digit address location shown (left digit is not used).

RF SUPERVISORY	RF TRANSMITTER	ADDRESS 1038-1045		
TIMER		LEFT	ADDR	RIGHT
Type 0	Window/Door, 2 Pt.		1038	
Type 1	Window/Door, 2 Pt.		1039	
Type 2	Window/Door, 2 Pt.		1040	
Type 3	Window/Door, 2 Pt.		1041	
Type 4	Window/Door, 4 Pt.		1042	
Type 5	PIR		1043	
Type 6	PIR		1044	
Type 7	Smoke detector		1045	

RF SUPERVISORY	RF TRANSMITTER	ADDRESS 1046-1053		
·		LEFT	ADDR	RIGHT
Type 8	Smoke Detector		1046	
Type 9	Keyfob		1047	
Type A	Dual Tech.		1048	
Type B	Keyfob		1049	
Type C	Window/Door, 2 Pt.		1050	
Type D	PIR		1051	
Type E	Smoke Detector		1052	
Type F	Napco Glass Break		1053	

[Default = •(blank) •(blank) from address 1038-1045]

[Default = •(blank) •(blank) from address 1046-1053]

RF SI	RF S			
DATA ENTRIES		DELAY	prog	
LEFT	RIGHT	DELAI		
• (blank)	• (blank)	0 min.		
• (blank)	1	10 min.	<b>13</b>	
• (blank)	2	20 min.		

30 min. • (blank) (blank) 4 40 min • (blank) 5 50 min.

• (blank) 6 60 min 7 70 min. (blank) 8 80 min. • (blank) 9 90 min. • (blank) • (blank) 0 100 min В 110 min. • (blank) C • (blank) 120 min.

D

(blank)

1

1

1 1

1

1

2

2

130 min.

250 min.

260 min.

270 min.

280 min.

290 min.

300 min.

310 min 320 min.

330 min.

Ε 140 min. • (blank) F 150 min. • (blank) • (blank) 160 min. 1 1 170 min. 2 180 min. 1 190 min 1 4 200 min 1 210 min. 6 220 min. 1 1 230 min. 1 8 240 min.

9

0

В

C

D

E

F

• (blank)

RF SUPERVISORY TIMERS: RF Supervisory Timers may be rammed for each type of transmitter used. 1. Select delay (70-2550 min.) from the table shown.

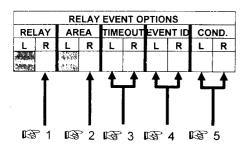
- Enter in corresponding address location shown (left and right digits).
- 3. For a desired timer not listed do the following:
  - A. Choose a desired timer (intervals of 10), ex: 200 min.
  - B. Divide it by 10, ex: 200/10 = 20
  - C. Divide it by 16

① Quotient -Left Digit 16 20 Remainder → Right Digit

RF SUPERVISORY TIMERS					
DATA E	NTRIES	DELAY			
LEFT	RIGHT	DELAT			
2	- 2	340 min.			
2	3	350 min.			
2	4	360 min.			
2	5	370 min.			
2	6	380 min.			
2	7	390 min.			
2	8	400 min.			
1	1				
F	F	2550 min. = 42 Hr., 30 min.			

## ADDRESS 0750 TO 0829 (EXTERNAL RELAY CONTROL)

ADDRESS 0750-1002 (RELAY EVENT 1)							
0750	0751	0752	0753	0754			
L R	L R	L R	L R	L R			
≠(blank)	e (blank)						
	المسائل			l I			
ADDRESS 0765-0769 (RELAY EVENT 4)							
0765	0766	0767	0768	0769			
L R	L R	L R	L R	L R			
• Golank)	(blank)						
ADDRESS 0780-0784 (RELAY EVENT 7)							
0780	0781	0782	0783	0784			
L R	L R	L R	L R	L R			
• (tolank)	+(blank)						
ADD	RESS 0750	0-0799 (RE	LAY EVEN	T 10)			
0795	0796	0797	0798	0799			
L R	L R	L R	L R	L R			
Egitarik)	(Distance)						
ADD	RESS 0750	0-0814 (RE	LAY EVEN	IT 13)			
0810	0811	0812	0813	0814			
L R	L R	L R	L R	L R			
ADD	RESS 0825	-0829 (RE	LAY EVEN	T 16)			
0825	0826	0827	0828	0829			
		1					



				•				
ADD	ADDRESS 0755-0759 (RELAY EVENT 2)							
0755	0756	0757	0758	0759				
L R	L R	L R	L R	L R				
• (blank)	·(blank)							
ADD	ADDRESS 0750-0774 (RELAY EVENT 5)							
0770	0771	0772	0773	0774				
L R	L R	L R	L R	L R				
- (chamb)								
ADD	ADDRESS 0750-0789 (RELAY EVENT 8)							
0785	0786	0787	0788	0789				
L R	L R	L R	L R	L R				
• (chamb)								
ADDI	RESS 0800	)-0804 (RE	LAY EVEN	T 11)				
0800	0801	0802	0803	0804				
L R	L R	L R	L R	L R				
ADDI	RESS 081:	-0819 (RE	LAY EVEN	IT 14)				
0815	0816	0817	0818	0819				
L R	L R	L R	L R	L R				

ADD	RESS 076	0-0764 (R	ELAY EVE	NT 3)				
0760	0761	0762	0763	0764				
L R	L R	L R	L R	L R				
- (blank)	•(Marik)							
ADD	ADDRESS 0750-0779 (RELAY EVENT 6)							
0775	0776	0777	0778	0779				
L R	L R	L R	L R	L R				
•	(despite)							
ADD	RESS 079	0-0794 (R	ELAY.EVE	NT 9)				
0790	0791	0792	0793	0794				
L R	L R	L R	L R	L R				
-(hlemb)	+(Marik)							
ADD	RESS 0805	5-0809 (RE	LAY EVEN	IT 12)				
0805	0806	0807	0808	0809				
L R	L R	L R	L R	L R				
•(blanks	(dentk)							
ADDRESS 0820-0824 (RELAY EVENT 15)								
ADD	VE 00 0020							
ADD 0820	0821	0822	0823	0824				

[Default = • (blank) • (blank) from address 0750-0829]

RELAY EVENT RELAY # OPTIONS: Each relay event can be assigned to any of the 8 available relay numbers.

1. Select the relay from the table shown; enter in corresponding right digit address location (left digit is not used).

RELAY EVENT AREA OPTIONS: Each relay event can be assigned to Area 1 or Area 2. RELAY EVENT AREAS

2. Select the area from the table shown; enter in corresponding right digit address location (left digit is not used).

	RELAY EVENT AREAS		
g	DATA ENTRIES	OFF/ON AREA DISARM	
	RIGHT		
	• (blank)	NONE	
	1	Area 1	
	2	Area 2	

RELAY EVENT RELAY #	
RELAY#	
NONE	
1	
2	
3	
4	
5	
6	
7	
8	

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

3. If Alarm Type (see next page) is selected for timeout in minutes or seconds, select the timeout from the table shown in minutes or seconds and enter in corresponding address location (left digit and right digits).

RELAY EVENT TIMEOUTS (Alarm Type is selected for Timeout Type in min. or sec.)			
TIMEOUT	NTRIES	DATA E	
	RIGHT	LEFT	
0 min./sec	• (blank)	• (blank)	
1 min./sec	1	• (blank)	
2 min./sec	2	• (blank)	
3 min./sec.	3	• (blank)	
4 min./sec.	4	• (blank)	
5 min./sec.	5	• (blank)	
6 min./sec.	6	• (blank)	
7 min./sec.	7	• (blank)	
8 min./sec.	8	• (blank)	
9 min./sec.	9	• (blank)	
10 min./sec	0	• (blank)	

RELAY EVENT TIMEOUTS (Alarm Type is selected for Timeout Type In min. or sec.)			
DATA E	DATA ENTRIES		
LEFT	RIGHT	TIMEOUT	
• (blank)	В	11 min./sec.	
• (blank)	С	12 min./sec.	
• (blank)	D	13 min./sec.	
• (blank)	E	14 min./sec.	
• (blank)	F	15 min./sec.	
11	• (blank)	16 min./sec.	
1	1	17 min./sec.	
1	2	18 min./sec.	
1	3	19 min./sec.	
1	4	20 min./sec.	
1	5	21 min./sec.	

for Tim	for Timeout Type in min. or sec.)		
DATA E	NTRIES	TIMEOUT	
LEFT	RIGHT		
11	6	22 min./sec.	
1	7	23 min./sec.	
1	8	24 min./sec.	
1	9	25 min./sec.	
1	0	26 min./sec.	
1	В	27 min./sec.	
1	С	28 min./sec.	
1	D	` 29 min./sec.	
1	1	1	
F	F	2550 min./sec.	

**RELAY EVENT TIMEOUTS** 

NOTE: For a desired timeout not listed do the following:

- A. Choose a desired timeout, ex: 20 sec.
- B. Divide it by 16
- ① Quotient —— Left Digit
- 16
  - Remainder → Right Digit



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

4. Select Event ID from the table shown; enter in corresponding address locations (left and right digit).

RELAY EVENT ID CODES			
DATA E		OPTION	
LEFT	RIGHT		
• (blank)	●(blank)	Area 1 Arm/Disarm	
	1	Area 2 Arm/Disarm	
• (blank)	8	Zone 1	
• (blank)	9	Zone 2	
• (blank)	0	Zone 3	
● (blank)	В	Zone 4	
• (blank)	С	Zone 5	
• (blank)	D	Zone 6	
• (blank)	E	Zone 7	
• (blank)	F	Zone 8	
1	• (blank)	Zone 9	
1	1	Zone 10	
1	2	Zone 11	
1	3	Zone 12	
1	4	Zone 13	
1	5	Zone 14	
1	6	Zone 15	
11	7	Zone 16	
1	8	Zone 17	
11	9	Zone 18	
1	0	Zone 19	
11	В	Zone 20	
1	С	Zone 21	
1	D	Zone 22	
1	E	Zone 23	
1	F	Zone 24	
2	• (blank)	Zone 25	
2	1	Zone 26	
2	2	Zone 27	
2	3	Zone 28	
2	4	Zone 29	
2	5	Zone 30	
2	6	Zone 31	
2	7	Zone 32	
3	• (blank)	Area 1 Keypad Ambush	
3	1	Area 1 Keypad Panic	
3	2	Area 1 Keypad Fire	
3	3	Area 1 Keypad Medical	
3	4	Area 1 Keypad Tamper	
3	5	Area 1 Fail to Open	
	6	Area 1 Fail to Close	
3	8	Area 2 Keypad Ambush	
3	9	Area 2 Keypad Panic	
3	0	Area 2 Keypad Fire	
3	B C	Area 2 Keypad Medical	
3	<u> </u>	Area 2 Keypad Tamper	
3	<u>D</u>	Area 2 Fail to Open	

RELAY EVENT ID CODES			
DATA ENTRIES		OPTION	
LEFT	RIGHT	Or HOIL	
3	Ε	Area 2 Fail to Close	
4	• (blank)	Test Timer	
4	2	Bus Fail	
4	3	Guarded RAM Fail	
4	4	Low Battery	
4	5	AC Fail	
4	6	EZM Tamper	
4	D	RFEZM Trouble (Fail Tamper)	
4	E	RXTx Tamper	
4	F	RXTx Trouble (LB/Supervisory)	
D	• (blank)	Keypad Fail	
D	1	EZM Fail	
D	2	Quickloader Device Control	
D	4	Quickloader System Reset	
D	5	General System Reset	
D	8	Area 1 General System Alarm	
D	9	Area 2 General System Alarm	
F	●(blank)	Relay Group 1	
F	1	Relay Group 2	
F	8	Area 1 Entry Relay	
F	9	Area 2 Entry Relay	

**RELAY EVENT CONDITION OPTIONS:** Each relay event can be assigned an alarm type; and an activation condition; also, select a timeout type for each.

5A. Select Alarm Type and Timeout Type from the table shown; enter in corresponding address location (left digit). **NOTE:** Select timeout from previous page.

5B. Select Activation from the table shown; enter in corresponding address location (right digit).

	RELAY EVENT ALARM TYPE OPTIONS		
LEFT DATA ALARM TYPE TIMEOUT TENTRIES		TIMEOUT TYPE	
• (blank)	Burglary	Minutes	
1	Fire	Minutes	
4	Day Zone	Minutes	
8	Burglary	Seconds	
9	Fire	Seconds	
С	Day Zone	Seconds	

RELAY EVENT ACTIVATION CONDITIONS	
RIGHT DATA OPTIONS ENTRIES	
1	Alarm
2	Restore
3	Trouble
4	Trouble Restore
5	Follow Zone







## ADDRESS 1196 & 1198 (SYSTEM RESET FEATURES)

1196 XX

GEM-RP1CAe2 Keypads

Clear Dealer Program (Erases Dealer Program)



Erases the dealer program. Use this feature to start a custmomized default program.

Access Location 1196, then press [ the button. Data entry is not allowed.

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

GEM-RP2ASe2 Keypad

1198 XX

**GEM-RP1CAe2** Keypads

Cold Start (Erases Entire Program)



Erases the entire program (codes, schedules, etc), leaving the panel as it came right out of the box.

1198XX

1196XX

GEM-RP2ASe2 Keypad

Access Location 1198, then press [ the button. Data entry is not allowed.

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

# **USER PROGRAM MODE**

# W1897 8/97 GENTINA SETEN ANNO GUL/51 1/2000 GUL

# PRELIMINARY INFORMATION

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

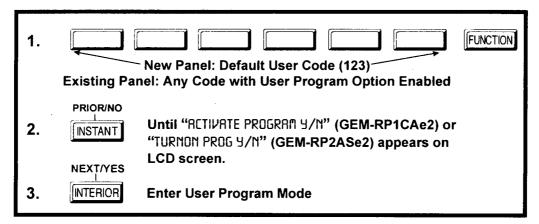
- Only Keypad #1 may be used for programming, however this keypad may be located in any area.
- The Program Mode cannot be accessed while the communicator is transmitting except during the first three minutes after power-up.
- After entering codes or data, press the save button. Data will not be stored into memory unless this button is pressed.
- If the keypad is in the Program Mode and no activity is detected for longer than 4 minutes, a steady tone will sound.

  Press the FESET to silence the sounder and exit the User Program Mode.

**Note:** For ease of programming, it is recommended that a GEM-RP1CAe2 be used as Keypad #1. (A new GEM-RP1CAe2 is automatically configured as Keypad #1.)

If a GEM-RP2ASe2 is used, configure address jumpers as Keypad #1 (see the section of this manual Configuring the GEM-RP2ASe2 Keypad). Use the function button to manually scroll the display at the end of each programming line.

### **ACCESSING USER PROGRAM MODE**



#### USER CODES

UO1 123 -E3-ENTER USER CODE

GEM-RP1CAe2 Keypad: (Direct Entry)

Up to 32 User Codes may be programmed. Refer to Figs. 3 & 4. (In this mode, *only* the code is programmable; the accompanying Authority Level and Access-Control Byte must be programmed in the Dealer Program Mode.)

- Use the [DECTION] button to place the cursor over the User Number.
- Enter a User Number (01–32) using the number buttons. The cursor will then advance to the User Code and read the existing code, if any.

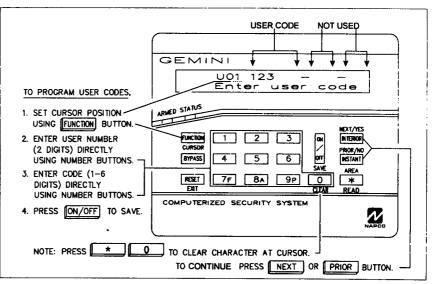


Fig. 3. User Program Mode: Programming User Codes.

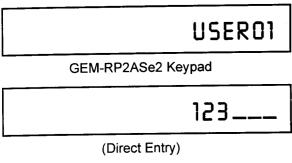




Enter the new User Code using the number buttons (0-9). If an old code is displayed, program over it. To erase the digit at the cursor, press \* 0.

Press the button to save the code in memory.

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



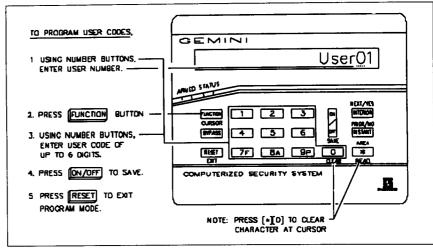
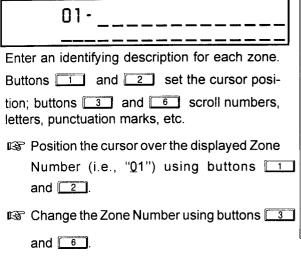


Fig. 5. User Program Mode: Programming Zone Descriptions.

# ZONE DESCRIPTIONS (GEM-RPICAe2 KEYPADS ONLY)



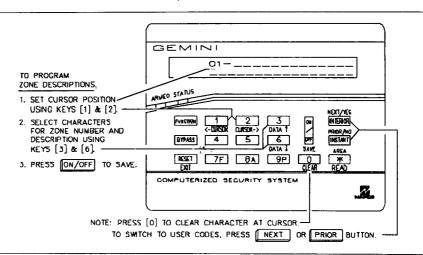


Fig. 5. User Program Mode: Programming Zone Descriptions.

- Position the cursor over the first character of the description field. Advancing the cursor between characters, program a description of up to two lines for the new zone using buttons 3 and 6.
- Press the button to save. Advance to the next zone as in Steps 1 and 2 above and repeat this procedure until all zones have been programmed.

# **KEYPAD CONFIGURATION MODE**



This section will focus on configuring the GEM-RP1CAe2 and GEM-RP2ASe2 Keypads. If there is more than one keypad in the system, only Keypad No. 1 may be used for programming.

#### KEYPAD INSTALLATION

Two types of keypads may be used with the GEM-P1632: the GEM-RP1CAe2 and the GEM-RP2ASe2. Each must be assigned an address number (1-7) and each requires its own configuration procedure (see CONFIGURING THE KEYPADS, which follows, and DIRECT ADDRESS KEYPAD AREA OPTIONS). At least 1 keypad must be used; only 1 is required for a single-area Commercial Burglary installation.

GEM-RP1CAe2 - is a 2-line combination fire/burglary/access keypad capable of supporting 4 EZM zones and a PGM output. A GEM-RP1CAe2 is recommended for use as Keypad #1.

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

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

# CONFIGURING THE KEYPADS

A total of up to 7 keypads may be connected to the panel. GEM-RP1CAe2 and GEM-RP2ASe2 keypads may be intermixed but require different configuration procedures, as described in the following paragraphs.

### Configuring the GEM-RP1CAe2 Keupad

Each GEM-RP1CAe2 keypad must be configured for (a) keypad tactile beep; (b) entry sounder; (c) keypad address; (d) compatibility number; (e) EZM address; and (f) zone response.

#### To enter the GEM-RP1CAe2 Configuration Mode:

1. Remove the back cover and move jumper JP1 (located at the upper-right corner of the control panel board) from Pins 2-3 (bottom two) to Pins 1-2 (top two).

**KEYPAD** CONFIGURE

NORMAL

2. After about 15 seconds, the display will read "XX OUT OF SYSTEM", where XX indicates the keypad address.

3. Press 1 1 2 3 Fuctor and proceed as follows. (Repeat the following procedure for all keypads.)

KEYPAD BEEP 0 NKeypad Tactile Beep Upon entering the Keypad Configuration Mode, "KEYPRO 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 the ENCTON button to continue or press the RESET button to exit. ENTRY SOUNDER ON **Entry Sounder** To turn off the keypad sounder during entry time, press the liming button (the button will toggle the tactile beep on and off). Press the FUCTON button to continue or press the RESET button to exit. KP ADDRESS  $\Pi$ Keypad Address If more than one keypad is installed, each must be assigned a unique

keypad address (that is, no two keypads may be numbered alike):

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

only Keypad No. 1 may be used for programming.

To assign the keypad number, proceed as follows:

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



NEW COMPAT# 0000

#### Compatibility Number

The compatibility number is a 4-digit security code that, if programmed into both the control panel and each GEM-RP1CAe2 keypad, dedicates

the keypad to only that panel. That is, (a) similar keypads not having the correct compatibility number will not operate in the system and (b) a keypad may not be removed for use on a system with a different compatibility number. **Note:** (1) If assigning compatibility numbers, record and store them in a safe place. (2) The GEM-RP2ASe2 Keypad will function with or without a Compatibility Number.

While the compatibility number may be changed, the old number must be known in order to program the new number. **NOTE:** If neither the control panel nor the keypad is given a compatibility number, both default to "0000" (thereby maintaining compatibility).

To program the compatibility number, press the button until "NEW COMPRT# 0000" is displayed. Enter the 4-digit compatibility number that is programmed into the panel. **Note:** If the keypad had been previously programmed for a compatibility number other than "0000", the display would read "OLD COMPRT# XXXX". Enter the existing number before attempting to change it.

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

01

EZM ADDRESS

#### **EZM Address**

The keypad's internal EZM (Expansion Zone Module) may be utilized to provide four additional wired zones. Whether used alone or in conjunction with optional GEM-EZM series modules or other keypad EZMs, it must be

assigned a unique address (or *Group* number, see Keypad Programming Workbook) similar to its keypad address. If no other EZMs are to be used, designate the keypad as Group "01" at the "EZM RODRESS 00" display. In multiple-EZM systems, enter an assigned group number "01" through "06". (Each EZM must have a unique assigned group number, starting with "01" and proceeding consecutively.) Press the without to continue or press the reserved button to exit.

ZN RESPONSE OO

#### Zone Response

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

1. Of the following, circle the number(s) in parentheses associated with the zone(s) to be changed:

Zone 1=(1); Zone 2=(2); Zone 3=(4); Zone 4=(8)

- 2. Add up the circled numbers.
- 3. At the keypad, enter the sum as a two-digit number "01" through "15" on the display, then press the [ON/OFF] Button. *Example.* Change Zones 2, 3 and 4 to 50mS response.
- 1. Circle numbers for Zones 2, 3 and 4: (2), (4) and (8).
- 2. Add up the circled numbers: 2 + 4 + 8 = 14.
- 3. Enter "14" at the keypad, then press the button.

Press the [METON] button to continue or press the [RESET] button to exit the Keypad Configuration Mode (display will read "01 OUT OF SYSTEM"). Then replace Jumper JP5 across Pins 1–2 (top two).



Configuring the GEM-RP2ASe2 Keypad

Up to 7 GEM-RP2ASe2 keypads may be connected to the panel (Keypads 1–7). Each must be configured for a keypad address. In addition, the keypad may be configured to disable (a) touchpad backlight; (b) LCD backlight; and (c) entry sounder. Keypads are configured by the proper selection of jumpers. Refer to the label on the circuit board fishpaper (LA1390) for jumper locations and a summary of settings.

KEYPAD		ADD	RESS JU	MPER
NO.	1	2	3	PARK
1	OFF or ON *	OFF	OFF	
2	OFF	ON	OFF	STORE SPARE
3	ON	ON	OFF	JUMPER IN THIS
4	OFF	OFF	OFF	POSITION
5	ON	OFF	ON	]
6	OFF	ON	ON	İ
ĭ	ON	ON	ON	

#### Keypad Address

If more than one keypad is installed,

- each must be assigned a unique address (that is, no two keypads may be numbered alike);
- keypads must be addressed consecutively (that is, missing numbers are not permitted); and
- only Keypad No. 1 may be used for programming. (However, for ease of programming, it is recommended that a GEM-RP1CAe2 be selected as Keypad #1.)

Assign the keypad address number by selecting Jumpers J1-3 in accordance with the table at left.

\*Note: (1) Keypads are factory supplied with no jumpers installed and a as such are automatically configured as Keypad No. 1. (2) Only one keypad in the system may be configured as Keypad No. 1, otherwise none will function.

#### Touchpad Backlight

Cut Jumper A to disable touchpad backlighting to conserve 11mA standby current.

#### LCD Backlight

Cut Jumper B to disable LCD backlighting.

#### **Entry Sounder**

Cut Jumper C to disable the sounder. (Do not disable in UL applications.)



# GEM-P1632 EASY MENU PROGRAMMING WORKSHEET - 1 of 3

NAPCO

	· · · · · · · · · · · · · · · · · · ·
Name:	Address:
Account Number:	Installer:
Zone Doubling?: Yes, No	; NOTE: Area 2 zones are selected in Direct Address Mode.
Enter Fire Zones (1-32):	2-Wire Fire Zones?: Zone 7 Yes, No; Zone 8 Yes, No;
Enter Entry/Exit Zones (1-32):	Enter Interior Zones (1-32):
Report All Zones to Central?: Yes,	□ No
Central Station Phone Number:	
Central Station Account Number:	
Central Station Receiver Format:	
— =Ademco Slow; Silent Knight	☐ 5=Universal High Speed
Slow	☐ B=SIA
2=Radionics Fast	C=Ademco Point ID
3=Silent Knight Fast	☐ E=Pager
4=Radionics, DCI, Franklin Slow	
Haar Cadaa	

#### User Codes:

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

USER #	CODE (up to 6 digits)	AREA 1 OPTIONS	AREA 2 OPTIONS
17	(up to 8 digits)	OPTIONS	OPTIONS
18	35		
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			

# GEM-P1632 EASY MENU PROGRAMMING WORKSHEET - 2 of 3



# RF Transmitter Points:

XMTR.	ZONE #	 	RF	ID			CHECK SUM	# OF POINT
1								
2								
3			,					
4						i		
5								
6								
7			! i					
8				į	i			

XMTR.	ZONE #		RF	ID		CHECK SUM	# OF POINT
9							
10					ļ		
11							
12		İ			ı		,
13							
14					'		
15							
16					 		

XMTR.	ZONE #	 	RF	ID		CHECK SUM	# OF POINT
17					,		
18							
19							
20							
21							
22							
23							
24							<u> </u>

XMTR. #	ZONE #		R	FID	 	CHECK	# OF POINT
25							
26							
27						1	
28							
29						i	
30		İ					
31		1		Ì	i	!	
32							

# Key Fob Transmitters:

KF #			RF ID			CHECK SUM	OPTION 1	OPTION 2
1			1					
2								
3	1			!				
4			i Į					
				1	İ			
₹.		1						
			İ					
8								

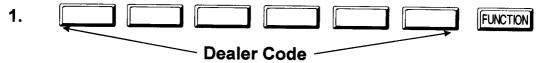
# GEM-P1632 EASY MENU PROGRAMMING WORKSHEET - 3 of 3



Zone Descriptions (GEM-RP1CAe2 Keypads Only):

711													CHAF 13	RACTI	RS A	VAIL	ABLE			,	,	,		,			γ		
ZN	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
01																				İ									
02																												'	1
03									i	İ						i					İ	i							
04					ŀ	İ																			ı			'	
05																													
06					1		1																			•			
07 08		:						ł																					
09												İ							1										
10			ĺ						ĺ							ĺ													
11																													
12			İ																	İ	ĺ								
13		1											,																
14			ĺ								l					i									İ				
15																						•							
16		İ					l																						
17																					1			1					
18																									i				
19							-																						
20		-	l																		ļ				,				
21																													
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23		İ				İ																							
24				1																									
25				1				•																					
26					ĺ															i									l
27		ŀ																											İ
28																								ĺ					
29		1																										, 1	
30																													
31																													
32		l	l																										

# Access Easy Menu Driven (Dealer Program) Mode:



2. Until "RETIVATE PROGRAM Y/N"
(GEM-RP1CAe2) or
"TURNON PROG Y/N" (GEM-RP2AS2)
appears on LCD screen.

3. INTERIOR Enter Dealer Program Mode

**NEXT/YES** 

4. RESET Exit Dealer Program Mode when finished

# PROGRAMMING OPTIONS INDEX

PROGRAMMING OPTION	PROGRAM MODE	ADDRESS LOCATION	PAGE NUMBER
3/1 with Extended Restores	Direct Address	0171, 0193 & 0215	26
Abort Delay	Direct Address	0715	12
AC Fail Report Delay	Direct Address	0717	12
Access Control on PGM2 Output	Direct Address	0719	22
Alarm Ouptut Timeout	Direct Address	0712	23
Auto Bell Test on Arming	Direct Address	0719	25
Auto Reset after Burglary Output Timeout	Direct Address	0719	25
Automatic Interior Bypass	Direct Address	0722	25
Backup Reporting on Telco 2	Direct Address	0429	28
Callback Telephone Number	Direct Address	0236-0255	23
Cancel Next Test timer on any Report	Direct Address	0429	28
Change Pulse Output to Cadence	Direct Address	0719	25
Chime Timeout	Direct Address	0716	22
Closing Report only on Conditional Close	Direct Address	0718	25
CS Receiver 1, 2 & 3 Telephone Numbers	Direct Address	0172-0191, 0194-0213 & 0216-0235	26
CS Receiver 1, 2 & 3 Ferephone Numbers  CS Receiver 1, 2 & 3 Formats	Direct Address	0170, 0192 & 0214	26
CS Telco 1, 2 & 3 Subscriber Event ID Numbers (System)	Direct Address	0275-0278, 0295-0298 & 0315-0318	27
CS Telco 1, 2 & 3 Subscriber Event ID Numbers (System) CS Telco 1, 2 & 3 Subscriber Event ID Numbers (Area 1)	Direct Address	0227-0270, 0287-0290 & 0307-0310	27
CS Telco 1, 2 & 3 Subscriber Event ID Numbers (Area 1) CS Telco 1, 2 & 3 Subscriber Event ID Numbers (Area 2)	Direct Address	0271-0274, 0291-0294 & 0311-0314	27
	Direct Address	0259-0262, 0279-0282 & 0299-0302	27
CS Telco 1, 2 & 3 Subscriber Opening/Closing ID Numbers (Area 1)	Direct Address	0263-0266, 0291-0294 & 0303-0306	27
CS Telco 1, 2 & 3 Subscriber Opening/Closing ID Numbers (Area 2)	Easy Menu Driven	N/A	10
Dealer Code	Direct Address	0720	25
Disable Callback Download	Direct Address	0427	28
Disable Closing Reports	Direct Address	0720	28
Disable Function Mode Download	Direct Address	0426	28
Disable Opening Reports	Direct Address	0429	28
Disable Wait for Handshake	Direct Address	0429	28
Disable Wait for Silence	Direct Address  Direct Address	0719	25
Enable Manager's Mode	Direct Address  Direct Address	0713	25
Enable 99 as Ambush Code	Direct Address  Direct Address	0718	25
Enable Auto Arm if not closed	Direct Address  Direct Address	0713	25
Enable Line Fault Test	Direct Address  Direct Address	0720	25
Enable Residential Fire	Direct Address  Direct Address	0721	25
Enable Transmitter Telco 1	Direct Address  Direct Address	0721	25
Enable Transmitter Telco 3	Direct Address	0721	25
Enable Zone Doubling	Direct Address  Direct Address	0171, 0193 & 0215	26
Enable Zone Number on Pulse Alarm	Direct Address	0001	22
Entry Delay 1		0002	22
Entry Delay 2	Direct Address		
Exit Delay	Direct Address	0000	22
Enable EZM Group	Direct Address	0737-0742	30
Include Select/Group Bypass in Conditional Close/Status	Direct Address	0718	25
Interior 1 Normally Bypassed	Direct Address	0720 N/A	25
Key fob Transmitters	Easy Menu Driven	N/A 1193	10
Number of Rings before Pickup	Direct Address	1183	23 25
Opening Report only after Alarm Report	Direct Address	0718	*****
PGM1 Output Timeout	Direct Address	0714	23
PGM2 Output Timeout	Direct Address	0710	23
PGM2 Output Access Control Timeout	Direct Address	0711	22
PGM2 Output Chirp on Key fob Arming	Direct Address	0722	25
PGM2, Don't Clear Output with Arm/Disarm	Direct Address	0722	25
Pulsed Alarm Output Timeout	Direct Address	0713	23

PROGRAMMING OPTION	PROGRAM MODE	ADDRESS LOCATION	PAGE NUMBER
Reset Day zone with Arm/Disarm only	Direct Address	0720	25
RF Transmitter Points	Easy Menu Driven	N/A	9
Status Report	。 Direct Address	0718	25
Sum check	Direct Address	0171, 0193 & 0215	26
Suppress Bypass Reminder when Armed	Direct Address	0719	25
Touchtone Dialing Only	Direct Address	0429	28
Touchtone Dialing w/Rotary Backup	Direct Address	0429	28
Transmit "402" Open/Close Code	Direct Address	0429	28
Two Ring Download	Direct Address	0722	25
User Codes	Easy Menu Driven	N/A	8
User Opening/Closing Telco 1 & 3 (Users 00-32 & 97-99)	Direct Address	0430-0449	29
Veriphone Zones over Priority Alarms	Direct Address	0722	25
Veriphone Zones trip PGM2 Output	Direct Address	0722	25
Zone Descriptors	Easy Menu Driven	N/A	10
Zones Report Code (Zones 1-32)	Direct Address	0358-0389	28

# **GLOSSARY**

#### Abort Delay (Do not program for UL Applications.)

A delay period that allows cancellation of the central-station report. This is done by disarming the control panel within the delay period. Program zones for *Abort Delay*; see *Time Selection* for delay time.

**Note:** If Abort Delay is selected for a 24-Hour Zone, the zone must be cleared before disarming the area.

#### Ac Failure; Ac-Fail Report Delay

If ac power is removed from the control panel, "E01-00 AC POWER FAIL" will display at the keypad with a flashing "SYS/TRBL" reminder and a pulsing sounder. Press the [RESET] Button to silence the sounder; the "SYS/TRBL" reminder will remain on and "SYSTEM READY" will appear in the display. If a User Code is entered within 5 minutes, the panel may be armed successfully. After 5 minutes, the system trouble will again display.

Ac Failure may be programmed to activate the burglary output or any external relay, and/or report to a central station (program Panel AC-Fail Report). An alarm and/or restore report to the central station will occur immediately unless an Ac-Fail Report Delay is programmed (see Time Selection). Ac Failure is logged immediately upon detection.

# Access Control; Access Control (Panel Access) on PGM2 Output; PGM2 Output Access Control Time; Keypad Access; Access Only; Access Logging

Note: The GEM-P1632 has not been evaluated by UL for compliance with UL294 (Access Control Systems).

If Access Control on Auxiliary Output is selected, entering the Access Code while disarmed will trip the panel's Auxiliary output. This is commonly used to activate a door strike for the purposes of remotely unlocking a door. Each keypad is individually selected for Panel Access (see Keypad Features). Also program Auxiliary Relay Access Control time (see Time Selection). Note: Do not program the Auxiliary Relay as an output on alarm. Also, do not program Enable Brownout Limits on Ac Failure.

Keypad Access is selectable for any keypad 1–8 by appropriate programming of the Access Byte of any User Code; program the Access Byte for those keypad numbers (1–8) that are to respond to the User Code (see Access-Control Keypads herein and User Codes, Authority Levels & Keypad Access Control Byte in the Programming Workbook, WI818). Note, however, that if the Access Byte is programmed, the code will no longer function as an Arm/Disarm Code. Also, if Access Only is programmed for any keypad, that keypad will be dedicated for keypad access. It will then display "ENTER CODE" and will no longer be capable of arming or disarming.

Entering a valid code at the keypad will cause a 5-second output on the keypad's PGM line with a pulsing sounder and the display "\*\*ENTER NOW\*\*" (or other customized message). If *Access Logging* is programmed, keypad access control will be added to the event log, by keypad.

An RB1000 Relay may be used to activate a door strike. Power to the door strike should be supplied from an independent source.

#### **Access Number for Outside Line**

Some subscribers will have a telephone system that requires one digit to access an outside line. Also, the first dial tone encountered (prior to the access number) may have a frequency that is different from that of the accessed dial tone (440Hz). One or more 4-second Pre-Dial Delay "D"s may be entered before the access number instead of a dial tone with frequency "E". See *Pre-Dial Delay; Telephone Numbers*. (**Note:** The panel features automatic dial-tone detection and will normally not require any "E"s. To disable this feature, see address 0429.)

If the subscriber's system uses an access number, contact the telephone-equipment supplier to find out if a dial tone other than 440Hz is received prior to dialing the access number. If the communicator must delay before dialing the access number instead of attempting to recognize the dial tone, find out how many 4-second delays must be programmed.

#### Alarm on Day Zone See Day Zone

Alarm Outputs (See Wiring Diagram for UL requirements.)

The GEM-P1632 has three outputs: *Bell, PGM1* and *PGM2*. The following table summarizes wiring for signalling an alarm in typical installations. See *Time Selection* for timeout durations.





OUTPUT	WIRING	REMARKS
Bell Output	3(+) & 4(-)	Single bell; program Burg Relay for Burg; Pulsed Burg for Fire
PGM1 Output	5(+) & 7(-)	Programmable Output
PGM2 Output	5(+) & 8(-)	Programmable Output

#### **Alarm Outputs**

In UL installations, (1) see *Time Selection* for timeout requirements; (2) combination residential burglary/fire systems require distinctly different signals for burglary and fire.

Note: All relays are "wet" contacts. For dry contacts, cut respective jumper (see Wiring Diagram).

Alarm: Alarm Restore Telco 1/Telco 3 See Report Telco 1/Telco 3

Alarm; Alarm Restore Telco 2 See Backup Report on Telco 2

#### Alarm Verification (Not for use in California.)

An alarm on any Fire Zone programmed for Alarm Verification will cause all zones to power down for 12 seconds. (All devices must be wired with + power on Terminal 25.) After this time, power is restored and a 4-second power-up time is started. Thereafter, the zone will be active again. This represents a total processing delay of 16 seconds from the time the alarm is first detected. If an alarm condition still exists at this time or reoccurs within 2 minutes, an alarm will be initiated, otherwise the zone will return to its original state. **Note:** A zone programmed for *Alarm Verification* must be programmed as a *Fire Zone* as well.

#### **Ambush**

A two-digit code that is entered immediately prior to (and as part of) the regular Disarm Code. This will access the Ambush Zone, typically causing 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. The Ambush Zone will automatically report when programmed to report on alarm.

To program, (a) program Ambush to report on alarm; (b) enter two digits as the Ambush Code; and (c) enter an Ambush-Zone Alarm Report Code. Each keypad is enabled for Ambush individually (see *Keypad Features*).

Inform the user what the Ambush Code is, and that his Arm/Disarm Code must be entered less than 10 seconds after the Ambush Code for an ambush report to be sent.

Answering Machine Pickup Without Line Seizure See Callback-Method Download.

#### **Anti-Jam Time**

If the communicator does not detect a dial tone within 12 seconds, the *Anti-Jam* feature will be activated. That is, the communicator will go off line for a 16-second anti-jam interval in order to free the telephone circuit from an incoming call, then make another 12-second attempt at dial-tone detection. If still unsuccessful, the communicator will again go off line for 16 seconds, then proceed to dial anyway.

#### Areas; Zone Area 1-Zone Area 2; Priority Area Arming

Although the default program will automatically set up Zones 1 through 8 for *Zone Area 1*, the panel may be partitioned into two areas. Each zone must be assigned to at least one area. At least one zone must be assigned to Area 1. If a zone is selected for both areas, that common zone will not arm until both areas are armed. If any zone disarms, the common zone will disarm.

In a multiple-area system, be sure to also program

- ✓ Subscriber Opening/Closing ID Numbers and Event ID Numbers (if reporting);
- System Trouble Subscriber ID Number

If Priority Area Arming is selected, the Priority Area must be armed before the Arming Area can be armed.







# Auto Bell Test on Arming (Required for UL Mercantile installations.).

This will activate the Burglary Output briefly 10 seconds after the area is armed. If the alarm does not sound, the device may be defective.

# Auto-Bypass (Do not program for UL installations.); Auto-Bypass Re-entry

Zones programmed for *Auto-Bypass* will be bypassed (automatically removed) if in trouble when arming. A momentary beep will sound at the keypad to warn that the system has been armed without the protection of the auto-bypassed zone. (Note that the exit/entry door must be closed before arming, otherwise the Exit/Entry Zone will be auto-bypassed.) **Note:** A zone in trouble that is not programmed for *Auto-Bypass* will cause an alarm on arming after a 10-second arming delay.

If Auto-Bypass Re-entry is selected, securing a zone that is programmed for Auto-Bypass, while armed, will cause that zone to re-enter the system in an armed state.

#### **Auto Disarm Rearm Delay**

If the panel was auto-disarmed on schedule and a rearm delay is programmed (see *Time Selection*), the panel will automatically rearm after the delay if no activity has been detected.

Auto Interior Bypass See Interior Zones by Area

# Auto-Reset; Auto-Reset After Burglary Output Timeout

If a zone signals an alarm and is selected for *Auto-Reset*, it will automatically rearm itself as soon as the alarm condition is cleared. Auto-Reset may be delayed to occur after the Burglary Output timeout period by selecting *Auto-Reset After Burglary Output Timeout* and *Auto-Reset*. Zones that are not programmed for *Auto-Reset* will not be capable of signalling another alarm until (a) the cause of the alarm has been corrected and (b) the control panel is disarmed. Also see *Swinger Shutdown*.

#### Auxiliary Relay See Alarm Outputs

#### **Backup Report on Telco 2**

If *Backup Reporting* is selected and the communicator does not reach the first telephone number after two attempts, seven attempts will be made to reach the second telephone number. Enter *Subscriber Identification Numbers* for Telephone 2 and other information required for Telephone 2. Also program *Backup Report on Telco 2*. Any zone programmed to report to Telco 1 will backup report to Telco 2. **Note:** Subscriber Identification Numbers for both Telephones 1 and 2 must be entered, even if they are the same.

#### **Battery**

12Vdc standby power source in the control panel to provide backup protection in the event of a power loss. Napco's RBAT4 (optional) is rated at 4 ampere-hours, the RBAT6 (optional) at 6 ampere-hours. The battery is an integral part of the system and must be installed, even if ac power is present. Change the battery every 5 years or as required.

#### **Bell Control**

In any system, the ability to silence any combination of alarm devices (outputs) initiated from any area. *Bell Control* must be programmed for all systems to be able to silence an alarm. For example, in a two-area system, each area could be programmed to silence only those alarms initiated within its own area; or both areas could be programmed to silence an alarm initiated from either area.

#### Burglary Output See Alarm Outputs

#### **Bus Failure**

Communication failure on the 4-wire bus will cause a system trouble and a report to the central station. Program System Trouble Reports and Report Codes for the 4-Wire Bus.

#### **Bypass Faulted Zones**

If programmed, pressing the [\*] and [BYPASS] Keys simultaneously will bypass all zones in trouble (except Fire and PIR Zones) that are also programmed for Selective Bypass. The message, "BYPASSED ALL ZONE FAULTS" will display.





#### Call Waiting See Disable Call Waiting

Callback-Method Download; Answering Machine Pickup Without Line Seizure; Disable Callback Download (Required for UL installations); Disable Answering Machine Download (Required for UL installations); Disable Function-Mode Download; Number of Rings Before Pickup

Data may be downloaded remotely to the panel after a programmed number of rings (3 to 15) and a control-panel confirmation callback. Program the number of rings; if not programmed, the panel will pick up after 15 rings.

This method will accommodate an answering machine at the site. (Disable Answering Machine Download must not be programmed.) The answering machine will pick up on its programmed number of rings, as usual. The panel will then listen for the signal from the PCD3000 software and seize the line from the house phones as well as the answering machine and the connection will subsequently be established. Note: The number of rings programmed into the panel must exceed that of the answering machine.

Program Disable Callback Download to prevent unauthorized downloading to an unattended panel. Program Disable Answering Machine Download to inhibit downloading to a telephone connected to an answering machine. Program Disable Function-Mode Download to prevent downloading at the keypad.

#### Cancel Next Test Timer Report on Any Report See Test Timer

**Chime** (Displays "MONITOR" on GEM-RP2ASe2 Keypads)

This annunciator feature may be used on any zone to sound a tone at the keypad while disarmed when the zone goes into trouble. Access the ACTIVATE CHIME function to enable or disable the Chime Mode. This feature is programmable by zone and for duration of tone (see Time Selection). A time must be programmed for the chime to function.

#### Clear Program

Caution: Erases the dealer program. Use this feature to start a new customized default program. Access Location 1196, then press the [ON/OFF] Button.

### Closing Report; Closing Report Only on Conditional Closing; Conditional Closing; Include Selective/Group Bypass In Conditional Closing/Status; Status Report

On arming, the communicator can transmit a unique Closing Code for each user and a status report that identifies the problem zone to the central station. Note that Subscriber Identification Numbers and a Closing Code must be entered for any closing report.

Select which users will report closings for each telephone number, even if Closing Report Only on Conditional Closing is selected. Normally, a closing report will consist of the Closing Code and the number of the user that armed. If the user armed with an auto-bypassed zone (or selective/group bypassed zone if Include Selective/Group Bypass In Conditional Closing/Status was programmed), the Conditional Closing Code will also be sent.

Select Closing Report Only on Conditional Closing to report only when arming with an auto-bypassed zone (and selective-/group-bypassed zone if Include Selective/Group Bypass in Conditional Closing/Status is programmed).

Select Status Report to send a closing followed by a status report that identifies the problem zone(s). A typical Status Report is represented by the following example.

Example (4/2 Format). A burglar breaks into a commercial establishment during the night, breaking the window foil on Zone 5. The Open/Close Subscriber Identification Number is "1234"; the Alarm Code for Zone 5 is "3,5" (Burglary Zone 5); the Subscriber Identification Number is "6789"; the Closing Code is "C". The communicator will send the following report to the central station.

When alarm occurs:

"6789 35" - Alarm. Zone 5

Closing Report:

"1234 C1" - Closing, User 1 (User 1 returned, inspected damage & rearmed; the same transmission would occur for User 11, 21, 31, etc.)

"1234 F5" - Trouble, Zone 5 (zone status at time of closing: Window foil still broken; Zone 5 auto-bypasses, repair required; the same transmission would occur for Zone 15, 25, 35, etc.)







#### **Cold Start**

Caution: Erases the entire program (codes, schedules, etc.), leaving the panel as it came right out of the box. Access Location 1198, then press the [ON/OFF] Button.

#### **Data Format**

Ask the central station which of these formats to use.

Two-Digit or 4/2 Format. Some central-station receivers require that a four-digit Account Code followed by a two-digit Alarm Code be sent in each report. **Example.** In a certain installation, the Alarm Subscriber Number is "1234"; a burglary alarm occurs on Zone 1. The Alarm Code for Zone 1 is "3". The communicator will send "1234 31" (Account No. 1234; Alarm, Zone 1). 1400Hz Handshake/Kissoff. 1400Hz Handshake overrides 2300Hz Handshake if both are selected.

2300Hz Handshake/Kissoff. Used with the following receiver formats: Radionics, DCI & Franklin Slow; Radionics Fast; Sescoa, Vertex, DCI & Franklin Fast; Radionics BFSK. 1400Hz Handshake overrides 2300Hz Handshake if both are selected.

**Zone Number on Pulse Alarm.** If selected, an Alarm Code need not be programmed (the zone number will replace the Alarm Code), however codes for restore, trouble, etc. are still required. Thus, in the foregoing example, if "E" is the designated Restore Code, and Zone 24 trips and is restored, the communicator will send "1234 24" (Account No. 1234; Alarm, Zone 24) followed by "1234 E6" (Account No. 1234; Zone 24 Restored).

**Single-Digit Event Code Format.** The single digit sent for a particular event can be either the Event Code or the units digit of the zone number.

**Sum-Check Format.** Sum Check is a sophisticated data format used to enhance the speed and check the accuracy of the received transmission. This format should be preferred whenever the central station is capable of receiving it. After transmitting the Subscriber Identification Number and the Alarm Code, the communicator sends a verifying digit that is the sum of both. The receiver compares the verifying digit with the sum of the other numbers to check transmission accuracy.

**3/1 with Extended Restores.** Some receivers require a three-digit Account Code followed by a single-digit Alarm Code. *Example.* In another installation, the Alarm Subscriber Number is "123"; an alarm on Zone 1 is restored. The Restore Code for Zone 1 is "*E*,1". The communicator will send "123 *E*" (Account No. 123 Restored); followed by "*EEE 1*" (Restored, Zone 1).

**Modem Formats.** Modem formats (SIA, Point ID, Express, 4/3/1, Modem 2) are preset and automatic but require a Type for each zone. Program **Zone Type** as follows: Fire\* = "1" (**Note:** Not for Modem 2 Receivers); Panic = "2"; Burglary = "3"; Holdup = "4"; Gas Alarm = "7"; Heat Alarm = "8"; Auxiliary Alarm = "A" (Keypad displays "0"); 24-Hour Aux. Alarm = "B".

**Pager Formats.** The control panel has provisions for dialing a pager phone number. The panel will wait for ringing, wait for silence, then send its data. *Caution:* Because there is no handshake/kissoff, *this feature should only be used for Double Reporting; it may not be used for Backup Reporting.* Only one report is sent for any call. Pager digits are limited to "0" through "9". Digits represented by "A" through "F" will be converted to "0"s for transmission purposes. Pager formats are 10 digits, arranged as illustrated by the following examples.

Alarms, restores, etc. are transmitted in a 3-3-4 arrangement representing Report Code, Descriptor and Account Number.

Example 1. Burglary, Zone 22 (Report Code = "3".)

Transmits: 003 022 1234, where

003 = Report Code (always two zeros + programmable Report-Code digit, 0-9);

022 = Descriptor (always one zero + 2-digit descriptor, zone number: 01–32);

1234 = Account Number (4 digits, programmable).

Openings, closings, etc. are transmitted in a similar arrangement

Example 2. Closing, User 12 (Closing Code = "8")

Transmits 008 012 1234, where

008 = Report Code (always two zeros + programmable Opening/Closing digit, 0–9)

012 = Descriptor (always one zero + 2-digit descriptor (user number: 01–32);

1234 = Account Number (4 digits, programmable).

Keypad Report Codes and System Report Codes are transmitted in the same format.





Compatible Receivers. The following receivers are compatible with the GEM-P1632.

- ☑ FBI CP220. Formats: Ademco Slow; Silent Knight Slow; Silent Knight Fast; Sescoa; Vertex; DCI; Franklin Slow; Franklin Fast; SIA; Radionics Slow; Radionics Fast; Radionics BFSK; FBI 4/3/1; Universal High Speed.
- Ademco 685. Formats: Ademco Slow; Silent Knight Slow; Silent Knight Fast; Sescoa; Vertex; DCI; Franklin Slow; Franklin Fast; Radionics Slow; Radionics Fast; Radionics BFSK; Universal High Speed; Ademco Point ID; Ademco Express.
- ☑ Radionics 6500. Formats: Ademco Slow; Silent Knight Slow; Silent Knight Fast; Sescoa; Vertex; DCI; Franklin Slow; Franklin Fast; Radionics Slow; Radionics Fast; Radionics BFSK; Universal High Speed.
- ☑ Osborne-Hoffman Quickalert. Formats: Ademco Slow; Silent Knight Slow; Silent Knight Fast; Sescoa; Vertex; DCI; Franklin Slow; Franklin Fast; SIA; Radionics Slow; Radionics BFSK; Universal High Speed; Ademco Point ID; Ademco Express.
- ✓ Silent Knight 9000. Formats: Ademco Slow; Silent Knight Slow; Silent Knight Fast; Sescoa; Vertex; DCI; Franklin Slow; Franklin Fast; Radionics Slow; Radionics Fast; Radionics BFSK; Universal High Speed; SIA.

# Day Zone(Open; Short); Alarm on Day Zone; Disable Auto-Reset on Day Zone; Reset Day Zone with Arm/Disarm Only; Enable Watch, Areas 1-2 (By Area)

A Day Zone will give an audible and visual indication at the keypad if there is a problem on the loop while disarmed. Openand short-circuit conditions are programmed separately, by zone. This feature may be used to warn of a problem (a break in a window foil, for example) during the day, when the panel is not normally armed. When the Day Zone is tripped, "DAY ZONE TRBL" and the zone number(s) will alternately display at the keypad and the sounder will pulse. Press the [RESET] Button to silence the sounder and reset the keypad. "ZONE FAULT" will be displayed until the condition is corrected. If Reset Day Zone With Arm/Disarm Only is programmed, arm and disarm the panel to reset the Day-Zone indication at the keypad.

If Alarm on Day Zone is programmed for a zone, a Day Zone condition will cause the alarm outputs programmed for that zone (sirens, relays) to activate.

**Note:** (1) If a zone is programmed for both *Day Zone Open* and *Day Zone Short*, either condition must be reset before the other can activate. (2) *Day Zone Short* will not function if *No EOL Resistor* is also programmed.

Report Trouble or Trouble Restore is programmed in conjunction with Day Zone Open/Day Zone Short and Trouble on Open/Trouble on Short (the trouble reported will be that programmed under Day Zone Open and/or Day Zone Short).

**Note:** Do not program a Day Zone for 24-hour protection. The keypad will annunciate as a Day Zone but the panel will transmit an Alarm Code and a Trouble Code when tripped.

Program *Disable Auto-Reset on Day Zone* to prevent repeated Day-Zone trips. This will cause the keypad display and sounder to activate only once in any arm/disarm period.

If *Enable Watch* is selected (by area), zones programmed for Day Zone can only be activated when *ACTIVATE WATCH* is accessed. (See Section 3.) Arming and disarming will turn off the Watch Mode. If Report Trouble is selected, a trouble on a Day Zone will be reported only when the Watch Mode is on.

#### Dealer Security Code See Master Security Code

### Dial-Tone Detection; Disable Auto Dial-Tone Detection

The panel features automatic dial-tone detection to ensure that a dial tone is present before the communicator dials. To disable this feature, program an "8" in Location 0429.

When an "E" is programmed before the first digit of an outside telephone number, the communicator dial-tone detection circuit is set to detect the standard 440Hz dial tone. The "E" is generally entered in the location immediately preceding the telephone number.

It may be necessary to program at least one 4-second pre-dial delay before a dial-tone detection "E". With certain nonstandard exchanges, pre-dial delay "D"s may be used without a dial-tone detection "E". (See Access Number for Outside Line; Pre-Dial Delay; Telephone Numbers.)

#### **Digital Dialer Test**

Activating the digital dialer test from the Function Menu (ACTIVATE DIALER TEST) will send the programmed report code to the central station. Program DD TEST for SYSTEM-TROUBLE REPORTS and enter a DD TEST Report Code. Note that in this case the report code received is not indicative of a system trouble, but is an indication of a successful transmission.





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Should the transmission fail, the keypad will display "E03-00 COMM FAIL". This system trouble may be reset by pressing the [RESET] Button. Any successful subsequent report will also clear the system trouble.

Disable Answering Machine Download See Callback-Method Download

Disable Auto-Reset on Day Zone See Day Zone

#### **Disable Auto Status**

Non 24-Hour Zones that are open (or shorted) normally display "ZONE FAULTS" (while disarmed) followed by the zone number(s) and description(s). In high-security applications, program *Disable Auto Status*. Unsecured zones will then be indicated by a "CHECK STATUS" display. Status may be displayed manually using the *DISPLAY STATUS* function, however a valid user code will be required.

#### **Disable Auto-Unbypass on Disarming**

Normally, manually bypassed zones revert to active (disarmed) zones on disarming. Select this feature to maintain bypassed zones on disarming until manually unbypassed.

#### Disable Call Waiting (TouchTone® Dialing Only)

A digital communicator connected to a telephone line with *Call Waiting* may be disrupted by this feature. However, most lines with *Call Waiting* also have *Selective Call Waiting*, which permits the feature to be turned off by dialing a "\*70" just before the telephone number. A "\*" will be dialed by programming a "B".

If the installation has the *Call Waiting* feature, be sure that it also has *Selective Call Waiting*, and confirm the disable code with the telephone company. Then program this code ("B70") directly before the phone numbers (after dial-tone detection or pre-dial delay) in the telephone-number locations. See *Telephone Numbers*.

Caution: Should the user cancel his Call Waiting service, the communicator will dial a wrong number unless the phone number is corrected.

Disable Callback Download See Callback-Method Download

Disable Code Required for Easy Bypass See Selective Bypass (Do not program in UL Installations)

#### Disable Fire Reset (by Area)

Normally, pressing the [RESET] Button will momentarily remove power to the smoke detectors. If *Disable Fire Reset* is selected for any area, the [RESET] Button will no longer activate the Reset Output so that the integrity of the smoke detector's Alarm Memory feature (LED indication) will be maintained. Also see *Alarm Outputs; Smoke Detectors*.

Disable Function-Mode Download See Callback-Method Download

#### Disable Openings/Closings

Provides the flexibility of disabling openings and/or closings from any area(s).

#### Disable Wait-for-Handshake/Kissoff

Causes data transmission to start immediately after the telephone number.

#### **Disable Wait-for-Silence** (Pager Format)

Causes data transmission to start immediately after the pager telephone number.

**Double Reporting** See Report Telco 3

Download Security Code See Master Security Code





"E" Lugs (E5, E7, E19)

E5 -

E7 -

E19 - See Veri-Phone: Silence All Outputs During Audio Session

Use Napco Part No. WL1 for field wiring.

#### **Easy Arming**

Permits quick arming by simply pressing the [ON/OFF] Button. Each keypad may be individually programmed for *Easy Arming* (see *Keypad Features*). Disarming still requires entry of a valid user code. Do not program *Easy Arming* in UL installations. If closings are reported, *Easy Arming* will report as User 99.

#### **Enable Burg Output Warning On Entry**

Causes the Burglary Output to "chirp" if the entry door is opened within 60 seconds after exit time has elapsed. This feature may be useful in cases where a keypad is not within audible range to remind a user to disarm if inadvertently exiting after exit delay has expired.

#### Enable Exit Delay Restart See Entry/Exit Delay

#### **Enable Line Fault Test**

Enable Line Fault Test will cause the panel to monitor the phone line. A failure will display as "E08-00 TELCO LINE1 FAIL". Program this system trouble to activate the Burglary Output.

Enable Local Alarm on First Zone "AND" Trip See Zone ANDing (Do not program in UL installations.)

Enable User Code by Area See User Codes/Authority Levels/Access Bytes

#### Entry/Exit Delay; Entry/Exit 1; Entry/Exit 2; Entry Relay; Enable Exit-Delay Restart

Delays permit exit and entry through the Entry/Exit Zone(s) after the system is armed without setting off an immediate alarm. Entry delay allows the user time to enter and disarm the panel. Exit delay allows the user to leave the premises after the panel has been armed. Unless the keypad has been configured otherwise, the sounder will come on and will pulse during the last 10 seconds of entry delay to remind the user to disarm.

Two individually-programmable entry-delay times are provided to accommodate different entry zones. If two or more Exit/Entry Zones are entered in succession, the delay programmed for the last Exit/Entry Zone entered will take precedence over all others. Exit-Delay time and Entry-Delay time may each be programmed for up to 255 seconds (41/4 minutes). See *Time Selection*.

An external relay may be programmed to trip upon entry (see Programming Manual: Relay Event ID Codes, Area Entry Relays), and remain on for a programmed duration.

If the system has been armed with *Exit-Delay Restart* enabled, when the exit door is opened and then closed, the programmed exit delay will restart at 60 seconds. Thus, if a long exit delay is programmed, it will be reduced to 60 seconds after exiting, yet still allow reentry before entry time starts. If re-entry occurs within that 60 seconds, exit delay will restart once again (and *only* once again) at 60 seconds.

If re-entry occurs within 60 seconds after exit delay has expired, the alarm will sound a 2-second warning (with the entry sounder) to remind the user to disarm. (*Exit-Delay Restart* may be useful in reducing false alarms caused by a user who re-enters the premises shortly after exiting.)

**Note:** In UL installations, maximum exit delay is 60 seconds; maximum entry delay is 45 seconds. In UL Mercantile installations, maximum entry delay is 60 seconds.

Entry delay may be cancelled by pressing the [INSTANT] Button prior to arming, however it will be restored automatically upon disarming. (When armed with Instant protection, an "I" will appear at the right side of the display.)







#### **Exit/Entry Follower**

A zone programmed as an *Exit/Entry Follower* will ignore detection during the exit delay, and only during entry delay if the Exit/Entry Zone is entered first. Thus, detection devices (passive infrared detectors, for example) along the path between the keypad and the exit/entry door will not signal an alarm during exit/entry delay under normal conditions. However, if a device in the Exit/Entry Follower Zone detects a violation when the exit/entry door has *not* first been entered, there will be no entry delay and the Exit/Entry Follower Zone will go into an instant alarm.

If the panel is armed with the entry delays cancelled (Instant protection), any violation on the Exit/Entry Zone or the Exit/Entry Follower Zone will cause an immediate alarm.

#### Expansion Zones; EZM Type; EZM Tamper See Tamper

Zones 9–32 or 17-32 are expansion zones added to the basic system using expansion zone modules (EZMs). Any combination of GEM-EZM4 (4 zones), GEM-EZM8 (8 zones) and/or the 4-zone modules integral to each GEM-RP1CAe2 keypad may be used. Refer to Section 2: ADDING EXPANSION ZONES and the Wiring Diagram. Also see the instructions accompanying each module for wiring information.

Regardless of how the modules are arranged, the expansion zones are divided into consecutively-numbered groups of four. Each 4-zone module comprises one group of zones; each 8-zone module comprises two groups. Each group is assigned a number.

For each EZM group, program *EZM Type* (two nibbles, left and right), as follows: *EZM Not Used:* leave both nibbles blank (••); *Burglary EZM:* enter "1" in the right nibble (•1).

#### **Extended Format** See Data Format

**EZ Zone Doubling** allows the hardwired zones to be expanded from 8 to 16 without the use of an EZM. Additional EZMs may be connected to increase zones from 16 to 32.

#### Fire; Keypad Fire

Any zone may be programmed for *Fire*. Connect normally-open devices across a Fire Zone. (The EOL2.2K end-of-line resistor must be installed.) A short across the zone will cause a fire alarm, which will be indicated at the keypad by a "FIRE" LCD display and pulsing sounder. An open circuit on the Fire Zone will identify a trouble and cause flashing "FIRE" LCD display and pulsing sounder after a 10-second delay. The sounder may be silenced using the [RESET] Button. The LED will go off within 30 seconds after reset if the alarm or trouble is cleared. For Smoke-Detector Reset, see *Alarm Outputs*.

A fire condition that has not been restored will cause the zone number and description to scroll. To reset (acknowledge) the condition, enter a valid code, then press [RESET]. If *Keypad Fire* is programmed, pressing both [F] and [\*] keypad buttons at the same time will sound a fire panic alarm and display "\*\*\*\*\*\*FIRE\*\*\*\*\*\*\*\* at the keypad. The Keypad Fire function is supplementary to the hardwired zones. **Note:** This feature shall not be considered a substitute for listed manual initiating devices.

# Include Selective/Group Bypass In Conditional Closing/Status See Closing Report; Interior Zones by Area; Interior Normally Bypassed; Auto Interior Bypass

Removal of a programmed group of interior zones from the system will permit freedom of movement throughout the premises but still afford protection from intrusion through armed perimeter zones. Pressing the [INTERIOR] Button prior to arming will select the Interior Zones, then arm to bypass. The next time the control panel is disarmed, all bypassed zones will automatically revert to non-bypassed (disarmed) zones. When the [INTERIOR] Button is pressed, the "BYPASSED" reminder will come on.

The bypassed zones may be displayed on the keypad (see GEM-RP1CAe2 FUNCTION MODE).

If Interior Normally Bypassed is selected, all Interior Zones will always be inactive. The "BYPASSED" reminder will always display, indicating that only partial protection will be provided upon arming. To temporarily restore interior protection, press the [INTERIOR] Button; the "BYPASSED" reminder will go out upon arming, denoting full protection, however Interior Zones will once again be bypassed the next time the panel is disarmed.

If Auto Interior Bypass is programmed, all Interior Zones will automatically provide protection if the Exit/Entry doors are opened during exit delay. (**Note:** Interior Normally Bypassed must be programmed.) If [INTERIOR] is pressed while armed, exit delay will restart and Exit/Entry doors may be opened to permit someone to exit (while others remain on premises) without causing an alarm.





Jumpers (Refer to Wiring Diagram for UL configuration.)

JP1: Keypad Configuration Jumper (top-right corner, above micro shield) is installed across top and center pins for normal operation. When configuring GEM-RP1CAe2 keypads, move jumper across center and lower pins.

JP3: 2-Wire Fire jumpers. Select Zones 7 and/or 8 for use as either 2-Wire Fire Zones or Burglary Zones. Note: If customizing a single-area default program, Zone 8 is configured as a 2-Wire Fire Zone. In a two-area default program, Zones 7 and 8 are configured as 2-Wire Fire Zones common to both areas; be sure to move JP7 Zone-7 jumper to the 2-WF position (see Wiring Diagram).

#### **GEM-RP1CAe2** Keypad Jumpers.

Refer to label LA1374 on the circuit board fishpaper for jumper locations and a summary of settings.

JP1: Cut to enable Keypad Tamper.

W1 & W3: Cut both to disable touchpad backlighting.

W2: Cut to disable LCD backlighting.

#### **GEM-RP2ASe2** Keypad Jumpers.

Refer to label LA1390 on the circuit board fishpaper for jumper locations and a summary of settings. See Section 3: Configuring the GEM-RP2ASe2 Keypad for jumper selection.

#### **Key Fob Transmitters**

Aux. Output Chirp on Key-Fob Arming

Don't Clear Aux. Relay with Arm/Disarm

Aux. Output Chirp on Key-Fob Arming will cause a 1-second chirp to sound on arming and a 2-second chirp on disarming. Use the steady output of a siren driver. Do not use a voice siren driver.

Programming a "C as the Key-Fob Aux-1 or Aux-2 option will provide the ability to toggle the Aux. Relay on or off. If there is an Aux. Relay timeout programmed, it will follow this timeout unless toggled off by the key fob. To provide key-fob-only control, program no timeout. Program Don't Clear Aux. Relay with Arm/Disarm to prevent a disarm from resetting the Aux. Relay. Key-fob users can report openings and closings. Key fobs 1–8 report as Users 25–32, respectively.

#### Keypad Access see Access Control

#### **Keypad Area Assignments**

In multiple-area systems, assign an Area Number ("1" or "2") to each keypad. Note that each address comprises 2 nibbles; enter the Area Number in the right nibble.

#### **Keypad Features**

The following programmed system features will activate only if they have also been enabled at the keypad.

- Easy Arming
- Keypad (Police) Panic

#### Keypad Panic See Panic Zone

#### **Keypad Sounder on Alarm**

If a programmed zone goes into alarm, the keypad sounder will activate and will remain activated until the [RESET] Button is pressed or the system is disarmed.

#### Keypad Tamper See Tamper





#### **Keyswitch Arming**

The area will arm/disarm when the programmed zone is momentarily shorted (momentary keyswitch). To supervise the keyswitch, program the zone for Day Zone on Open.

#### Line-Reversal Module, M278

The Line-Reversal Module allows the panel to be monitored by a central station through leased lines. On alarm, the module reverses normal line-voltage polarity. For details, refer to the instructions furnished with the module.

#### Loop Response (750mS required for UL installations)

Loop response is the amount of time in milliseconds (mS) that a normally-closed circuit must remain open, or a normally-open circuit must remain closed, to trigger an alarm. The slower the loop response, the more immune the system will be to intermittents ("swingers"). Loop response times for Zones 1 through 8 are programmed into the control panel; those for Zones 9 through 32 are selected at the respective keypad or expansion module. (Refer to keypad instructions and EZM Installation Instructions.)

Selectable loop-response times for Zones 1–8 are:

750mS (.75 sec.): The slowest loop-response time, recommended for use with magnetic contacts, window foil, etc. Unless programmed otherwise, loop-response time will be 750mS for all zones.

50mS (.05 sec.): Used for momentary Panic Buttons and area-protection devices, such as photoelectric eyes, passive infrared sensors, floor mats, etc.

10mS (.01 sec.): An extremely fast loop response used primarily for window bugs.

#### Low Battery (Required for UL Mercantile installations)

A low-battery system trouble will annunciate at the keypad when the battery terminal voltage drops below normal. This condition may signal a local sounding device, report to a central station (program Panel Low Bat Report Code), or both. If a battery is installed and low terminal voltage is detected, a restore will not occur until the battery is recharged to its specified level and passes a dynamic test. The dynamic test may be initiated manually by pressing the [RESET] Button, or it will be initiated automatically, every four hours, by the panel.

In wireless installations, when displaying rf transmitter status, a "LoBatt" indication denotes a low-battery condition at the transmitter.

#### Master Security Code; Dealer Security Code; Download Security Code

The factory-programmed Master Security Code (printed on the label affixed to the micro can) is unique and cannot be changed. Use this code to enter the Program-2 Mode (Dealer Program Mode) to program (or change) the Dealer Security Code. If a Dealer Security Code is programmed, both the Dealer Security Code and the Master Security Code will work. However, should system RAM fail, only the Master Security Code will work.

The Dealer Security Code is needed to enter the Program-2 Mode, thus allowing the dealer to program codes, zone features. reporting features and zone descriptions (see Programming Manual WI818). This code may be changed as required.

Important! The label containing the Master Security Code should be removed. Record the code in a secure place for reference as programming changes cannot be made without it (or the Dealer Security Code).

To change the Dealer Security Code, access the PROGRAM 2 Mode. Advance to the "PROG" screen, then change the 6-digit code as required.

The Download Security Code is the six-digit code required to establish connection to the PCD3000 Software.

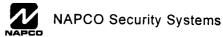
#### Memory Failure

A User or Dealer Memory error will cause the sounder to pulse, the "SYS/TRBL" reminder to flash, and the display to read "E19-00 USER MEM ERROR" OF "E20-00 DEALER MEM ERROR". Press the [RESET] Button to silence the sounder ("SYSTEM READY" will display, along with the "SYS/TRBL" reminder). Activate RESET SYSTEM TROUBLE to manually reset the system trouble. A Memory Failure can be programmed to activate an alarm output and/or report using its associated system Report Code.

#### **Never Arm** (Do not use for primary Burglary protection)

A zone programmed as Never Arm cannot go into alarm. If tripped, it will display at the keypad when the DISPLAY STATUS function is selected. A chime will sound at the keypad while armed or disarmed if Chime is also programmed for that zone. and enabled. This feature is suggested for use as a garage-door or driveway monitor, or similar application.





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#### No EOL Resistor

Program for any zone not wired with a  $2200\Omega$  end-of-line resistor (Napco Part No. EOL2.2K). This will disable any zone-short indication (if programmed, *Day Zone Short* is disabled). If not programmed, an end-of-line resistor must be installed. **Note:** This selection is automatically disabled for zones selected as *Fire*.

Number of Rings Before Pickup See Callback-Method Download

One-Button Arming See Easy Arming

#### Opening Report; Opening Report Only After Alarm Report (Do not program for UL installations)

Opening and closing reports are generally used in commercial installations. On disarming, the communicator can send an Opening Code for Users 1–32 (*Opening Report*), or it may transmit only when the control panel is disarmed after an alarm has been reported (*Opening Report Only After Alarm Report*). (**Note:** Key Fobs 1–8 report as Users 25–32.) Subscriber Identification Numbers and Opening Codes must be entered for either opening report.

Program Opening Report Only After Alarm Report to report only when disarming after an alarm report. This feature may be used by the central station to verify that the subscriber has responded and disarmed the panel. If Opening Report Only After Alarm Report is selected, also select Opening Report for each user.

### Panic Zone; Keypad Aux Panic; Keypad (Police) Panic; Keypad Fire Panic See Fire; Remote Panic

The *Panic Zone* is always a 24-Hour Zone. Each keypad is individually selectable for keypad panics (see *Keypad Features*). If *Keypad Panic* is programmed for a keypad, police panic is activated by simultaneously pressing the [P] and [\*] Buttons. If *Keypad Aux*. is programmed, pressing [A] and [\*] Buttons simultaneously will trip an auxiliary emergency alarm. If *Keypad Fire* is programmed, pressing [F] and [\*] at the same time will activate fire panic.

A remote panic button may be connected to a GEM-RP2ASe2 Keypad. Splice the two white wires from the keypad to a normally-open momentary-contact pushbutton. Additional panic buttons may be wired in parallel with the first. If remote panic will not be used, insulate both white wires, as a short across them will cause a panic alarm. (In UL installations, remote-panic buttons must be located within 3 feet of the keypad, with no intervening walls or barriers.

#### Power-Up Delay

If programmed, power-up will be delayed for 5 minutes to allow devices such as PIRs time to stabilize (warm up). This will prevent false alarms when ac power is restored after a long power outage and the backup battery is discharged.

#### Pre-Alarm Warning (Not for UL applications)

Programmable by zone, this feature will cause an alarm to sound only at the keypad for the duration of the programmed abort delay (see *Abort Delay; Time Selection*). After the delay has elapsed, the alarm output will activate and a report will be sent. **Note:** If no Abort Delay time is programmed, *Pre-Alarm Warning* time will be 10 seconds.

#### **Pre-Dial Delay**

A *Pre-Dial Delay* may be used whenever a delay is required before dialing. It may be required when programming *Dial-Tone Detection*, which causes the communicator to wait before it attempts to detect a dial tone (see *Dial-Tone Detection*). Certain telephone exchanges send a nonstandard dial tone that the communicator may not be able to detect. With these nonstandard exchanges, it is possible to program *Pre-Dial Delay* rather than *Dial-Tone Detection*. This will cause the communicator to wait for a predetermined period of time before dialing rather than look for a nonstandard dial tone.

Contact the telephone-equipment supplier to find out how long a delay is required before dialing. Select *Pre-Dial Delay* by programming one "D" for each 4-second delay required immediately before the telephone number. **Note:** In UL installations, do not program more than one "D" before the telephone number.

See Backup Report on Telco 2; Report Telco 3 (Double or Split Reporting). Also see Access Number for Outside Line; Telephone Numbers.

#### **Priority Area Arming**

Prevents area arming if the alternate *Priority Area* has not yet been armed.







#### **Priority Zone** (Required for all zones in UL installations.)

A zone that will prevent arming if in trouble. If an attempt is made to arm, the sounder will come on and "ZONES NOT NORMAL / CAN'T ARM" will be displayed for 4 seconds. The keypad may be reset by simply pressing the [ON/OFF] Button. The problem on a Priority Zone must be corrected before the panel can be armed.

Any zone may be selected as a Priority Zone. A zone in trouble that is neither a Priority Zone nor an Auto-Bypass Zone will cause an alarm on arming.

#### **Priority Zone with Bypass**

A Priority Zone that will permit arming if the priority condition is bypassed. If the system is so programmed, the zone will auto-bypass and (optional) the condition will be reported to a central station.

As above, if an attempt is made to arm, the sounder will come on and "ZONES NOT NORMAL / CAN'T ARM" will be displayed. To reset the keypad, press the [ON/OFF] Button; the display will read "ZONE FAULTS". To arm the panel, press the [RESET] Button, then enter the User Code.

Any zone not selected as a *Priority Zone* may be programmed as a *Priority Zone with Bypass*.

#### Pulse Burglary Output See Alarm Outputs

#### **Receiver Format**

The communicator can be programmed to transmit to any standard central-station receiver. A receiver format must be entered for each telephone number used, but a different format may be assigned to each. Refer to Backup Report on Telco 2 and Report Telco 3 to determine whether or not Telephones 2 and/or 3 will be programmed. Call the central station for each telephone number used to confirm the type of receiver in use. Select the receiver format entry for each telephone number from the following table.

ENTRY	RECEIVER FORMAT	DATA FREQ. (Hz)	DUTY CYCLE (ON/OFF)	INTERDIGIT TIME			
(blank)	Ademco, Silent Knight Slow	1900	60/40mS	600mS			
1	Sescoa, Vertex, DCI, Franklin Fast	1800	30/20	800			
2	Radionics Fast	1850	13/12	400			
3	Silent Knight Fast	1900	40/30	560			
4	Radionics, DCI, Franklin Slow	1800	60/40	600			
5	Universal Hi-Speed	1850	30/20	350			
8	Radionics BFSK						
9	4/3/1*						
Α	Radionics Modem 2*	Modem formats					
В	SIA*						
С	Point ID*			,			
D	Express (Touc	Express (TouchTone 4/2 format)					

<sup>\*</sup>These formats do not use programmable codes, but Event ID Codes to identify the type of zone as follows:

- 1 Fire
- 2 Panic
- 3 Burglary
- 4 Holdup
- 7 Gas Alarm
- 8 Heat Alarm
- A Auxiliary Alarm (keypad displays "0")
- B 24-Hour Auxiliary Alarm

#### Relay Control (External Relays)

In addition to the three relay outputs provided on the motherboard, up to 24 external relays can be controlled from the keypad through the use of RM3008 Relay Modules. The RM3008 is designed for external remote mounting. Each contains 8 relays; three units will provide a total of 24 relays.

For each relay, program four 2-nibble address locations.

1st Location (XXX1): Program the area having the ability to shut off the relay in the right nibble.

2nd Location (XXX2): Program relay timeout. The left nibble has a time factor of 16; the right a time factor of 1 (also see Time Selection). If timeout units are in minutes (see 4th Location), maximum programmable time is 41/4 hours; if timeout units are in seconds, 41/4 minutes. Note: Program a minimum timeout of 3 seconds; if locations are left blank, the relay will not time out.

3rd Location (XXX3): Enter an Event ID Code. A list of Event ID Codes is provided in the Programming Manual.

4th Location (XXX4): Left nibble, program (a) Zone Type and (b) Timeout Units as follows.

- (a) Select Zone Type (Leave blank for Burglary Zone):
- "1" = Fire; "4" = Day Zone.
- (b) If relay timeout will be in seconds, add "8" to Zone Type (a) above. Otherwise, relay timeout will be in minutes.
- 4th Location (XXX4): Right nibble, program type of activation as follows:
- "1" = Alarm; "2" = Restore; "3" = Trouble; "4" = Trouble Restore; "5" = Follow Open Zones; "6" Follow Shorted Zones. (Leave blank if relay is not used.)

#### Relay Follows Zone

External Relays can be programmed to follow an open or shorted zone. Program External Relay to Activate On "5" to follow an open zone, or "6" to follow a shorted zone. If values are entered in Time locations, the relay will time out after the programmed time.

Relay Outputs See Alarm Outputs

Remote Panic See Panic Zone

#### Report Telco 1; Report Telco 3 (Double or Split Reporting)

Alarms, alarm restores, troubles and trouble restores may be selected individually for each zone. Violation of a zone selected to report will communicate the code(s) selected for that zone to the central station.

Normally, Report Telco 1 is used to report to the central station. Report Telco 3 is used when certain zones will report to a different receiver (split reporting); Report Telco 1 and Report Telco 3 are both used on the same zone to report to two receivers successively (Double Reporting). (Double Reporting requires a successful report to Telco 1 before reporting to Telco 3.) Also see Backup Report on Telco 2.

#### Reset Day Zone with Arm/Disarm Only See Day Zone

Reset Relay See Alarm Outputs

#### Selective Bypass

Disable Code Required for Easy Bypass (Not for UL installations.)

Any or all zones (1-32) programmed for Selective Bypass may be removed from the system, but each must be removed separately. Refer to BYPASSING ZONES in Section 3 for operation.

Security Bypass, recommended for commercial applications, requires entry of a valid user code.

Easy Bypass, recommended for residential applications, is selected by programming Disable Code Entry for Easy Bypass; this will permit bypassing/unbypassing zones without the need of entering a code (see Easy Bypass in Section 3). Do not program this feature in high-security applications.

When one or more zones is bypassed, the "BYPASSED" reminder on the GEM-RP1CAe2 keypad will display.





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#### Silence All Outputs During Audio Session See Veri-Phone

#### Single-Digit Format See Data Format

#### **Smoke Detectors**

Connect smoke detectors as shown in the following diagrams. The normally-closed contacts of the Reset Relay are used to reset the smoke detectors.

Two-Wire Smoke Detectors. Two-wire smoke detectors may only be used only on Zones 7 and 8. Up to 10 compatible 2-wire smoke detectors may be wired to each zone. In Residential applications, program *Pulse Burg Output*. Program *Disable Fire Reset* in the applicable area(s).

Zones 7 and 8 have been designed so they can be easily configured as 2-wire smoke detector zones by means of jumpers (JP3) located above Terminal 21.

- 1. Program Zones 7 and/or 8 for 2-Wire Smoke Detectors and Fire.
- 2. If Zone 7 is selected as a 2-Wire Fire Zone, move the left jumper on JP3 from the top two pins (BURG) to the bottom two pins (2WF).
- 3. Similarly, if Zone 8 is selected as a 2-Wire Fire Zone, move the right jumper on JP3 from the top two pins (BURG) to the bottom two pins (2WF).
- 4. Connect 2-wire smoke detectors to Zones 7 and/or 8 as shown in the GEM-P1632 Installation Instructions (WI808).

**Four-Wire Smokes.** If installing 4-wire smokes, subtract smoke-detector alarm current from available standby current. See *COMPATIBLE UL-LISTED DEVICES*.

Wire 4-wire smokes as shown in the GEM-P1632 Installation Instructions (WI808). Program each zone for *Fire*. Also program zones for *Pulse Burglary Output*, and *Disable Fire Reset* in the applicable area(s) (System Options). If they are of the self-resetting type, 4-wire smokes may be powered from Terminals 25 and 22.

#### Split Reporting See Report Telco 3

#### Start Exit Delay After Ringback

When a closing report is successfully received, the central station will acknowledge by returning a kissoff signal. When the kissoff is received by the communicator, a 2-second ringback tone will sound at the keypad. Start Exit Delay After Ringback will cause the exit delay to start after the ringback sounds.

If this option is chosen and no ringback sounds shortly after the control panel is armed, exit delay will not start and opening the exit/entry door will cause an instant alarm. To manually start the exit delay, select the START EXIT TIME function, then press the [ON/OFF] Button to execute.

**Note:** (1) If this feature is selected, Exit/Entry Follower Zones will not arm until either a ringback sounds or the *START EXIT TIME* function is used. (2) If communicator, telephone lines or central-station receiver is out of service, the system will be armed without communication capability.

Status Report See Closing Report

#### **Subscriber Identification Numbers**

If reporting openings and/or closings, program Subscriber Opening/Closing Identification Numbers for each area for each telephone number used. If reporting events, program Subscriber ID Numbers for each area for each telephone number used. Subscriber ID numbers must be programmed for each area and telephone number, even if all are the same. Start with the left-most location.

Sum Check See Data Format

Suppress "BYPASSED" Reminder When Armed (Must be enabled in all UL systems)

Program to inhibit the LCD "BYPASSED" display while armed.





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Swinger Shutdown (Do not program for UL Installations.)

Program for zones with *Auto-Reset* to only reset twice (3 alarms) until rearmed to prevent "swingers" (intermittents) from causing repeated false alarms. See *Auto-Reset*. The *Swinger-Shutdown* feature is programmable by zone, but is not applicable to Ambush.

#### System Troubles (Global and Area)

System troubles may be programmed to report to any telephone number and/or activate any output. Also program Subscriber ID Numbers, Telephone Numbers, and Report Codes for each system trouble.

Note: RF TROUBLE will report for RF Low Battery, RF Supervisory Failure or GEM-DT Self-Test Failure.

#### Tamper; EZM Tamper; Keypad Tamper; RF Tamper

Removing the cover of an expansion zone module will cause the sounder to pulse and the "SYS/TRBL" reminder to flash. The keypad will display "E13-NN BURG EZM TAMPER", where "NN" denotes the module number. Press the [RESET] Button to silence the sounder ("SYSTEM READY" will display). Correct the problem, then select RESET SYSTEM TBL to manually reset the system trouble display.

Removing a keypad from the wall causes a similar system trouble indication. The keypad will display "E11-NN BURG KPD TAMPER", where "NN" denotes the keypad number. Press the [RESET] Button to silence the sounder ("SYSTEM READY" will display). To manually reset the system trouble, correct the problem then select RESET SYSTEM TBL.

**Note:** If either of the tamper conditions is not corrected within 5 minutes, the system trouble will again display at the keypad. A Tamper condition can be programmed to activate the burglary output and/or report using its associated system Report Code.

In wireless installations, when displaying rf transmitter status, a "Tamper" indication denotes that the transmitter case is open.

Telco Fail See Enable Line-Fault Test

Telco Line Test Delay See Enable Line-Fault Test; Time Selection.

#### **Telephone Numbers**

To report to a central station, *Telephone Number 1* must be programmed. *Telephone Number 2* is programmed for Backup Reporting; *Telephone Number 3* is programmed for Double or Split Reporting.

Private telephone systems may require a *Dial-Tone Detection* "E" or *Pre-Dial Delay* "D", followed by an access number to obtain an outside line. (See *Access Number for Outside Line*.)

It should be noted here that the telephone number need not actually start in the first location shown, and may not end in the last. Extra locations have been provided to allow for one or more prefix digits: a *Pre-Dial Delay "D"* or a *Dial-Tone Detection "E"*. What *is* important is that the telephone number, with its associated *Pre-Dial Delay*, *Access Number*, and *Dial-Tone Detection*, be wholly contained within that group of locations, and that they be in their proper sequence.

#### Test Timer; Cancel Next Test Timer Report on Any Report

The test timer schedule is programmed using Napco's PCD3000 Quickloader Software. If *Test Timer* is programmed, an automatic test report will be transmitted to the central station on the scheduled day(s) at the scheduled time. (UL installations require a report at least every 24 hours.) To report test timer, select *Report Test Timer* and program a report code. Program the *Test Timer* event schedule and reporting time.

If Cancel Next Test Timer Report on Any Report is programmed, any report will cause the next test-timer transmission to be aborted, however subsequent test-timer transmissions will report as scheduled. Do not program this feature in UL installations.

#### **Timeout**

Specifies the length of time that an alarm, alert, or delay will remain active. Auxiliary Output Access Control Time, Abort-Delay Time, and Chime Time must be programmed, or the feature will not activate. See Time Selection.







#### **Time Selection**

The following times are programmable:

		in the second se
TIME <sup>(1)</sup>	UNITS	MAX. PROG. TIME
PGM2 OUTPUT	MIN.	UNTIMED <sup>(2)</sup>
PGM2 OUTPUT ACCESS CONTROL TIME	SEC.	4 MIN, 15 SEC (255 SEC)
BURGLARY OUTPUT	MIN.	UNTIMED(1)(2)
PULSE-BURG OUTPUT	MIN.	UNTIMED <sup>(1)(2)</sup>
PGM1 OUTPUT	MIN.	UNTIMED(2)
ABORT DELAY	SEC.	4 MIN, 15 SEC (255 SEC)(3)
CHIME TIME	1/4SEC.	63.25 SEC (255 QTR-SEC)(3)
AC-FAIL REPORT DELAY	10 MIN.	42 HR, 30 MIN (2550 MIN)
EXIT DELAY	SEC.	4 MIN, 15 SEC (255 SEC) <sup>(4)</sup>
ENTRY DELAY 1	SEC.	4 MIN, 15 SEC (255 SEC) <sup>(4)</sup>
ENTRY DELAY 2	SEC.	4 MIN, 15 SEC (255 SEC)(4)
AUTO ARM REARM DLY	MIN.	4 HR, 15 MIN (255 MIN)

**NOTES:** (1) The output used for Burglary must be at least 4 minutes in Residential UL installations, 15 minutes in Commercial UL installations. (2) If both locations are left blank, this feature will remain active until the system is disarmed. When both locations are programmed "F", maximum time will be 4 hours, 15 minutes (255 minutes). (3) If both locations are left blank, this feature will not activate (timeout = 0). (4) In UL installations: Maximum Exit Delay = 60 sec; Maximum Entry Delay = 45 sec. (5) If programming locations are left blank, delay will default to 10 sec. (6) Time in units of disarmed hours (accumulated between armed periods).

Any timeout up to those shown in the foregoing table may be programmed. Note that each of the above times is programmed in two locations. The first location has an assigned time factor of 16, the second a time factor of 1.

					1st	BO	K	1	2nd	BO.	<u> </u>	_			
					tx	16				x1					
Time t:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	1
	+	_	<del> </del>		<b>†</b>		T .		_	_	1 _				Τ.

#### \*Blank.

Note: If both programming locations are left blank, refer to the notes in the Time Selection table for feature timeout.

To select a time up to 15 seconds, 15 minutes, 15 hours, or 15 days, program the respective entry into the second box only; do not program the first box. To select a time greater than 15 seconds, 15 minutes, 15 hours or 15 days, program both boxes as follows:

- 1. For the feature selected, choose an appropriate time in units shown (all seconds, minutes, hours, or days not minutes and seconds, etc.).
- 2. Divide the time chosen by 16. Enter the quotient in the 1st BOX and the remainder in the 2nd BOX.
- 3. Check entries by adding the contents of the 2nd BOX to 16 times the contents of the 1st BOX. (Remember that a "zero" entry represents 10.)

Example. Program Entry Delay 1 for 11/2 minutes.

- 1. Entry Delay 1 is in units of seconds, thus delay time is 90 seconds.
- 2. Divide by 16: 90/16 = 5 (quotient) + 10 (remainder). Enter the *quotient* in the 1st BOX and the remainder in the 2nd BOX:

1st BOX	2nd BOX
5	0
quotient	remainder ("0" for 10)

3. Check entries (remember, a "0" entry = 10): (16x5) + 10 = 90.

#### TouchTone Dialing Only; TouchTone Dialing with Rotary Backup

Select *TouchTone Dialing Only* if the subscriber has TouchTone service. TouchTone dialing is faster than rotary dialing, but not always as reliable.

For the communicator to use TouchTone on all dial attempts, program *TouchTone Dialing Only*. To use TouchTone on the first attempt with subsequent Rotary dial, program *TouchTone Dialing with Rotary Backup*. *TouchTone Dialing Only* will override *TouchTone Dialing with Rotary Backup* if both are selected. Note that if Backup Reporting is also selected, the

communicator will alternate between TouchTone and rotary dial to reach Telephone 1, then Telephone 2. See *Backup Report* on Telco 2.

#### Transmit "402" Closing Code

Program to send a "402" closing code (for Ademco Point ID modem format) in place of a "401" code.

#### **Trouble**

An abnormal zone condition (a break in a normally-closed loop; a short on a normally-open loop; or either on an end-of-line-resistor supervised loop) when disarmed.

Trouble on a Burglary Zone is automatically displayed at the keypad unless *Disable Auto Status* is programmed. If a Burglary Zone is in trouble, it will go into alarm about 10 seconds after arming. However, if *Auto Bypass* is programmed, the keypad will beep upon arming (does not apply to selective- or group-bypassed zones).

Trouble (open and/or short circuit) on a Day Zone is indicated by a pulsing sounder; display the Day Zone(s) in trouble on the LCD. Keypad indications are reset by the [RESET] Button unless Reset Day Zone With Arm/Disarm is selected.

Trouble on a Fire Zone will be indicated by the "FIRE/TRBL" reminder and the sounder. An open circuit (trouble) will cause a flashing "FIRE" display and a pulsing sounder after a 15-second delay. (A short circuit will cause an alarm condition: steady-on "FIRE" display and pulsing sounder.) The [RESET] Button will silence the sounder. Clear the trouble, then press the [RESET] Button once again. The keypad will reset after a brief delay.

#### Trouble on Open; Trouble on Short; Trouble on Night Open (Not for UL installations)

Trouble on Open will identify an open circuit on a loop as a trouble. Trouble on Short will identify a short circuit as a trouble. Trouble on Night Open, which will identify an open circuit on a normally-closed zone while armed as a trouble condition (not an alarm), is intended for use with a Napco Monitor-Series dual-technology sensor. While there will be no indication at the keypad, any of these trouble conditions can be reported if Report Trouble is programmed as well. See Sensor Watch.

Trouble/Trouble Restore Telco 1/Telco 3 See Report Telco 1/Telco 3

Trouble/Trouble Restore Telco 2 See Backup Report on Telco 2

Two-Digit Format See Data Format

Two-Wire Smoke Detectors See Smoke Detectors

# User Codes/Authority Levels/Access Bytes; User Closing and Opening Reports by Telephone Numbers; Enable User Code by Area

Up to 32 six-digit User Codes are programmable, each with its dedicated Authority Level and Access Byte. (The Authority Level comprises an Option Code.) Refer to Programming Manual WI818 for descriptions of levels and options.

If reporting to a central station, program *User Closing and Opening Reports by Telephone Numbers*. In multiple-area systems, program *Enable User Code by Area*.

# Veri-Phone™; Silence All Outputs During Audio Session; Veri-Phone Zones Priority Over Alarms; Veri-Phone Zones Trip Auxiliary Relay

If Silence All Outputs During Audio Session is selected, all output relays will turn off whenever an active low is applied to control-panel Lug E19 (Listen In). Connect Veri-Phone Terminal 16 (INHO) to Lug E19. **Note:** Do not program Keypad Sounder on Alarm for Listen-In Zones.

If *Veri-Phone Zones Priority Over Alarms* is programmed and an active low is applied to the panel's Listen-In Lug (E19), any subsequent alarm reports (except fire alarms) generated during an audio session will be delayed until the end of the session. (Whenever a listen-in session is in progress, the Veri-Phone will output an active low at its INHO Terminal (16) and Lug E1.) Program *Veri-Phone Zones Trip Auxiliary Relay* to have selectable Listen-In Zones. Connect Veri-Phone Terminal 14 (TRIGH) to control-panel Terminal 8 (AUX. N/O). Program the zone or event for *Auxiliary Relay*. Do not use the Auxiliary Relay for any other purpose.



Watch Mode (by Area) See Day Zone

Zone ANDing, Groups 1–2 (Not for UL installations); Enable Local Ala... on First Zone "AND" Trip (Not for UL installations) Up to two groups of at least two zones each can be "AND" ed, wherein the system will go into alarm only if any two zones of the group are tripped within a prescribed time. This feature is designed to afford redundant protection for devices, such as glassbreak detectors, PIRs, etc., that may show a tendency to false under certain conditions. Program each group for any number of Zones 1-32. All zones in any group must be within the same area. Do not mix 24-Hour Zones and non-24-Hour Zones within the same group. Do not include a Panic Zone as part of any group.

Note: Any zone that is bypassed or goes into swinger shutdown will automatically disable Zone Anding for the entire group. If Enable Local Alarm on First Zone "AND" Trip is programmed, a trip on any zone of the group will cause an alarm indication at the keypad only; there will be no communication to the central station.

Zone Area 1-Zone Area 2 See Areas

Zone Number on Pulse Alarm See Data Formats: Two-Digit Format

Zone Type See Data Formats: Modem Formats

2-Wire, 4-Wire Smoke Detectors See Smoke Detectors

4-Wire Bus Failure See Bus Failure

#### 24-Hour Zone

A zone that provides protection at all times, whether or not the system is armed. If programmed for silent alarm (no relays or keypad sounder programmed), the green LED will go out if the zone is tripped. Note: The zone description will display on the LCD, therefore do not program a "panic" message for Panic Zones.

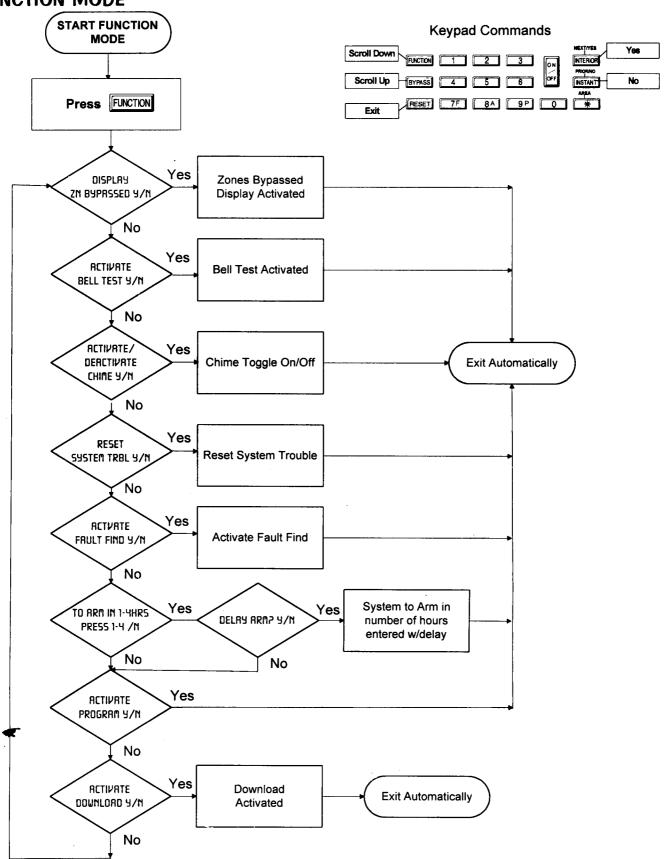
Note: Do not program a Day Zone as a 24-Hour Zone.



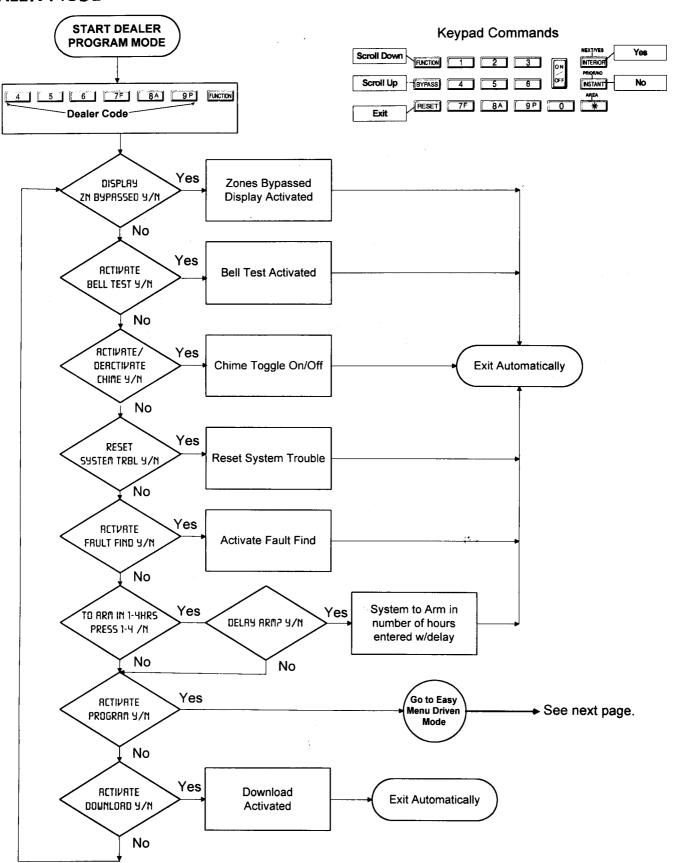


# **KEYPAD PROGRAMMING MODES**

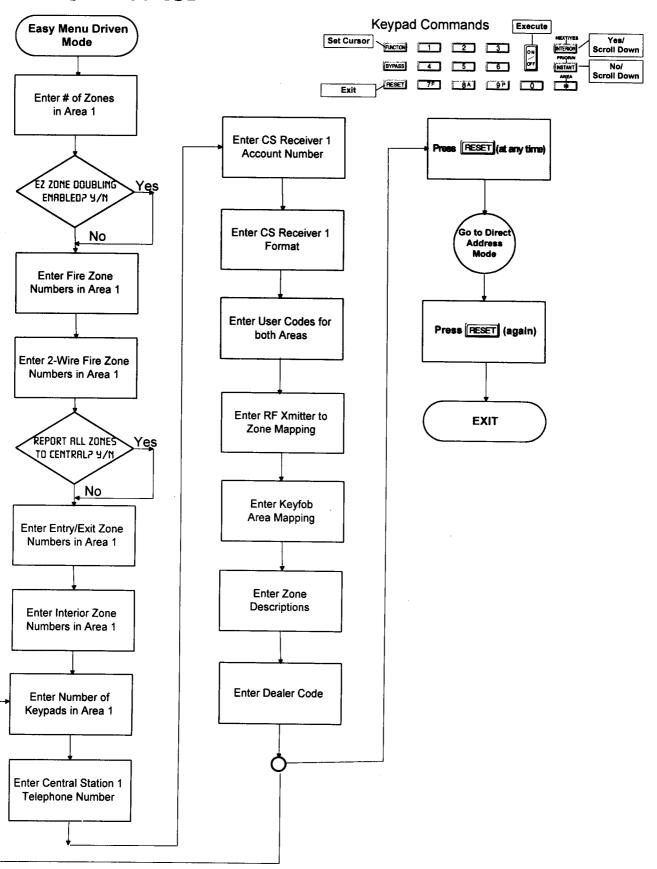
# **FUNCTION MODE**



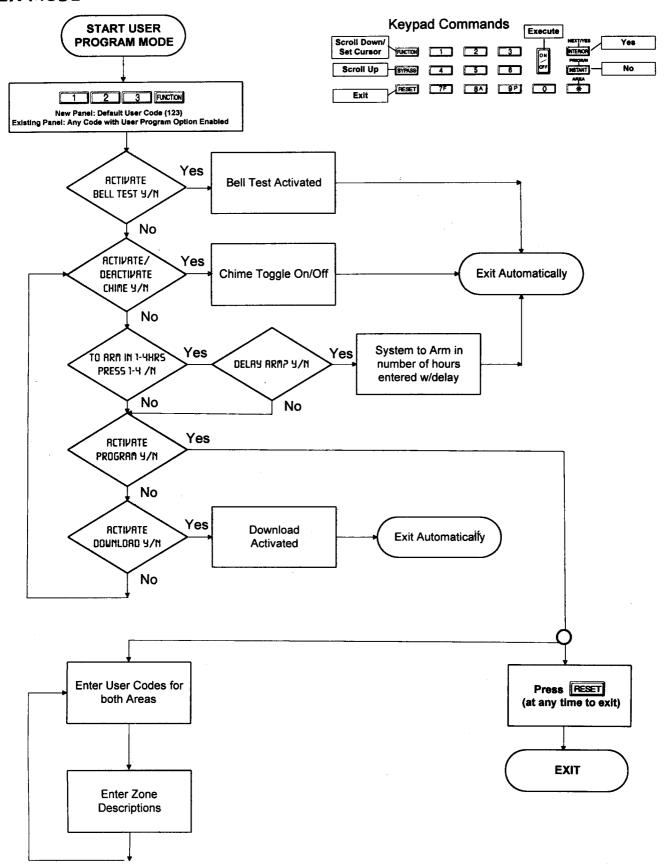
# **DEALER MODE**



### **EASY MENU DRIVEN MODE**



### **USER MODE**



M-P16

Security

Systems

#### **GEM-P1632** $\langle \rangle E1$ $(-) \sqcap$ BLACK-4 AMP HOUR OR **○E2 WIRING DIAGRAM** RED-6 AMP HOUR AC IN, 16.5V/60Hz VIA TRE11 OR TRE12 — CLASS 2 TRANSFORMER (A)

 $\sim$ 

O

9

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9

12

EART-

GROUND

PCD LOCAL

DOWN! OAD

CONNECTION

NOT FOR

TEL. LINES

DO NOT CONNECT

- (+)BELL

-)BELL

PGM-OR

(-) BLK PON-2

(+<u>)</u> RED 5

<sup>™</sup>RB1000

COLD WATER GROUND CONNECTION. USE ONLY COLD-WATER

ROD. USE AT LEAST #16

OR BURIED GROUND

CRANGE

GREY BLUE GRE VIOLE:

AUX PWR

PGM 1-

PGM 2 -

RED

BLK

GRN

YEL

RECHARGEABLE

BATTERY 12VDC

(SUPERVISED)

+12V

ALARM

(+)□

USING A RB1000 FOR 12V

OUTPUT ON PGM-1 OR PGM-2

N/O N/C COM

REMOTE BUS

⊐see note

(2)

(GEM-RP1CAe)

2 LINE KEYPAD

EZ Zone Doubling M

Resistors

, cc...Σ WHITE RED

ORANGE

(REFER TO OPERATION AND INSTALLATION INSTRUCTIONS W808)

BATTERY STANDBY CURRENT RESIDENTIAL AND COMMERCIAL BURGLARY STANDBY/ALARM CURRENT CHART PANEL ALARM CURRENT COMBINED STANDBY

16.5V
TRANSFORMER BATTERY STANDBY CURRENT
40VA/50VA 4AH 650m A
20VA 4AH 500m A 20VA RESIDENTIAL FIRE AND COMBINATION RESIDENTIAL BURGLARY AND FRE

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

STANDARD ZONE WIRING (12VDC 5~A)

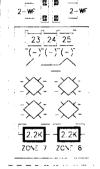
ZONE 7\_\_ ZONE 8 WARNING ΞΞΞ £5 BURG BURG

TO PREVENT RISK OF ELECTRIC SHOCK DISCONNECT TELEPHONE LINES PRIOR TO SERVICING.

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

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





4 WRE SMOKE DETECTOR WRING

⊇CWER

25

(-)

PROGRAVVED

FIRE ZONE

OPTIONAL TO THERMOSTA" & S

> 0 0,0

POWER

2200

SVOKE SOUTHER

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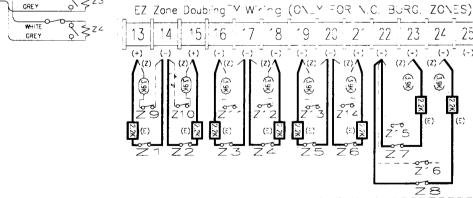
5 Z

2 WRE SMOKE

DETECTOR WIRING

ZONE 7\_ \_ ZONE 8

A. RG



- NOTES: 1) ALARY CURRENT CAN BE NOREASED BY REDUCING STANDBY CURRENT BY THE SAVE AVOUN
  - 2.) THE FOLLOWING DEVICES MAY BE PLACED ON THE REVOIT BUS: GEVI-RPZASe, GEVI-RPZSe, GEVI-EZV, GEVI-X10, GEV-RECV8~96, RM3008, EVA AND W:ZARD2
  - 3.) REFER TO W/808 FOR U.E. STINGS
  - 4) COVEINED STANDBY CURRENT = REMPAD CURRENT = AUX CURRENT = PRE POWER = POVI AND PGV2 CURRENT

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