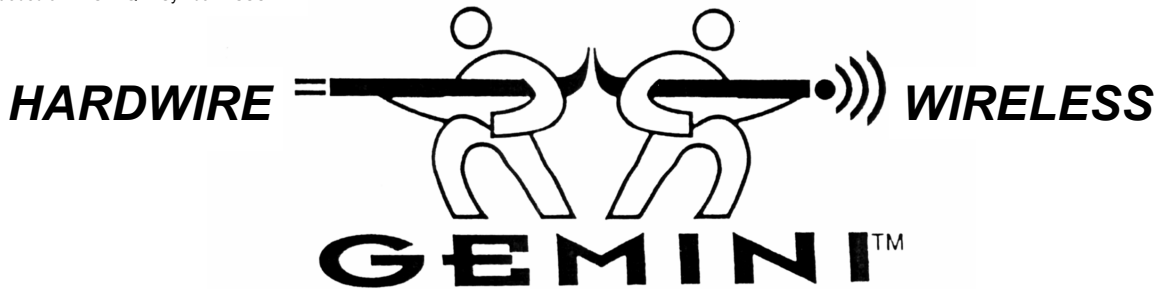




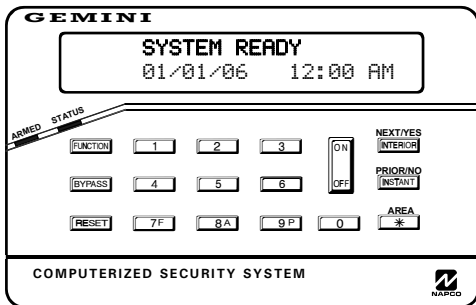
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PROGRAMMING INSTRUCTIONS

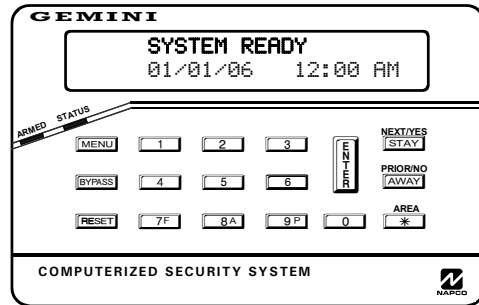


GEM-X255 CONTROL PANEL/COMMUNICATOR

Programming the GEM-X255 Control Panel with the "Classic" GEM-RP1CAe2 Keypad and the "K Series" GEM-K1CA Keypad



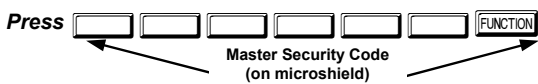
"Classic" GEM-RP1CAe2



"K Series" GEM-K1CA

Quick Start (for "Classic" GEM-RP1CAe2)

1. Refer to the wiring diagram, connect Siren, Aux. Power, PGM Output, Remote Bus, Earth ground, Zone and Telephone wiring. NOTE: See Installation Instructions (WI1093).
2. Connect AC power first and then the battery.
3. Configure the keypad (see page 60).
4. Access the Easy Menu Driven (Dealer Program) Mode:

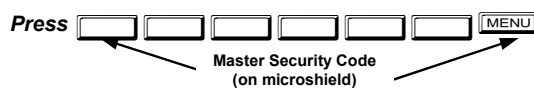


Press NO (**INSTANT**) until "ACTIVATE PROGRAM Y/N" appears on the keypad display.

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

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

1. Refer to the wiring diagram, connect Siren, Aux. Power, PGM Output, Remote Bus, Earth ground, Zone and Telephone wiring. NOTE: See Installation Instructions (WI1093).
2. Connect AC power first and then the battery.
3. Configure the keypad (see page 60).
4. Access the Easy Menu Driven (Dealer Program) Mode:



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







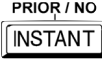

Press YES (**STAY**) to Enter Dealer Program Mode. Go to page 5.

THIS MANUAL INCLUDES FEATURES WHICH ARE ONLY AVAILABLE IN CONTROL PANEL FIRMWARE VERSION 50 OR LATER.

IMPORTANT NOTE

This manual supports the keypad programming of the GEM-X255 control panel with the NAPCO "classic" GEM-RP1CAe2 keypad as well as the GEM-K1CA "K Series" keypad. The new "K Series" GEM-K1CA model offers the new STAY and AWAY buttons with simplified functionality, along with the new MENU and ENTER buttons. **Note:** While the instructions in this manual are depicted using the GEM-K1CA keypad, the manual applies to both the "classic" and the "K Series" keypads.

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

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

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

CHANGES FROM PREVIOUS EDITION

The following changes have been made to this manual (W11092E) since the previous edition (W11092D).

- Corrections made to address 2423, page 45. **Enable TCP/IP Communications** and **TCP/IP Panel/Site Initiated Functions** were changed to bits 2 and 3, respectively.

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Refer to accompanying GEM-X255 Installation Instructions (WI1093) for installation information.




SYSTEM PROGRAMMING OPTIONS

INTRODUCTION

The GEM-X255 control panel may be programmed by various means, each of which will be covered in detail in the sections that follow. Keypad displays shown are for a GEM-K1CA (v.8), the recommended keypad for programming.

✓ **Downloading From a Computer.** This is the preferred method of programming. The panel may be downloaded from (or uploaded to) an IBM PC-compatible computer, either locally or remotely. Napco's PCD3000 and PCD Windows Quickloader software feature context-sensitive help screens as well as an error-checking utility that prevents programming of incompatible or conflicting data to ensure proper panel operation. **Note:** Unattended downloading from a computer is not allowed for Fire Alarm or UL installations.

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

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

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

DOWNLOADING FROM A COMPUTER

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

Local Downloading

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

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



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



Remote Downloading

(Also see PCI2000/3000 Installation Instructions WI443).

Function Mode











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

Callback Method

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

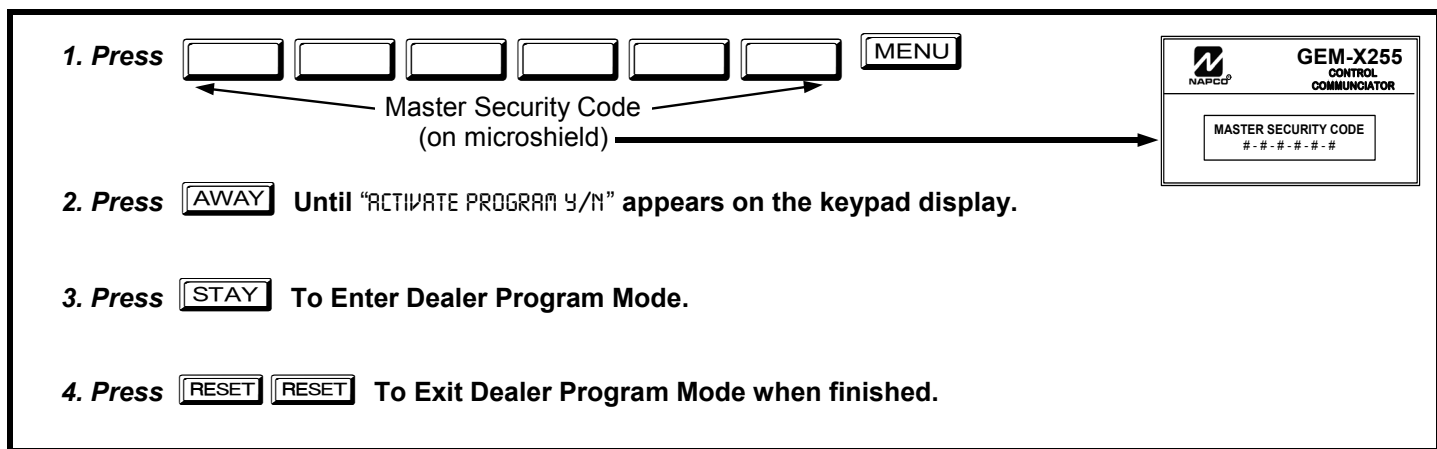
EASY MENU DRIVEN PROGRAM MODE



DEALER PROGRAM - PRELIMINARY INFORMATION





-  Only Keypad #1 may be used for both dealer and user programming, however this keypad may be located in any area.
-  The Master Security Code is *printed on the panel's microprocessor can*. Use this code to enter the Dealer Program Mode to program a custom Dealer Security Code. Record the number, then remove the code label to prevent unauthorized access to the panel. If you forget your Dealer Security Code, use the Master Security Code to enter programming.
-  After entering codes or data, press the save  button. Data will not be stored into memory unless it 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 by pressing the  button to exit.
-  A panel that has been COLD STARTED (Address Location 4093) performs identically to a new panel.
-  When programming more than 2 areas, Direct Address Programming Mode must be used to complete the program.

KEYPAD #1: For ease of programming, it is recommended that a GEM-K1CA (Version 8) be used as Keypad #1. (Regardless of which keypad is selected, all *new* keypads are configured as Keypad #1 out of the box).

ACCESSING DEALER PROGRAM MODE



1. Press  



Master Security Code
(on microshield)
2. Press  Until "ACTIVATE PROGRAM Y/N" appears on the keypad display.
3. Press  To Enter Dealer Program Mode.
4. Press   To Exit Dealer Program Mode when finished.

CUSTOMIZING A DEFAULT PROGRAM

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

- Total Number of Zones in Area 1
- Total Number of Zones in Area 2
- Fire Zones in Area 1
- 2-Wire Fire Zones in Area 1
- Report All Zones to Central
- Exit/Entry Zones in Area 1
- Interior Zones in Area 1
- 24 Hour Zones in Area 1
- Chime Zones in Area 1
- Chime 2 Zones in Area 1
- Exit/Entry2 Zones in Area 1
- 50mS Loop Response Zones (Note: 750mS is required for Loop Response time in UL installations).
- Aux Output Activated on Alarm Zones
- Sensor Watch Zones
- Keypad Sounder on Alarm Zones
- Auto Bypass re-entry Zones
- Enable no EOLR Zones
- Enable Telco Line Fault Test
- Enable Burg Output Chirp on Keypad
- Enable SIA CP-01 Features
- Number of Keypads in Area 1
- Number of Keypads in Area 2
- Central Station Receiver 1 Tel. Number
- Central Station Receiver 1 Account Number
- Central Station Receiver 1 Format
- Enter User Codes
- RF Transmitter Points
- Quick Method (Enroll Method)
- Keypad Transmitters (as Arm/Disarm & Control Devices)
- Keypad Transmitters (as Zone Input Devices)
- Enter Zone Descriptions
- Enter Date
- Enter Time
- Dealer Code
- Exit Dealer Program Mode

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

NEW PANELS: The custom default program may be created for new panels only. Once the panel has been programmed by any means, the number of areas, number of zones, fire zones, entry/exit zones and interior zones will be suppressed and cannot be changed. Should it be necessary to create a new custom default program, (a) from the Dealer Program Mode, press the  button to enter the Direct Address Program Mode; (b) access Location 4091 (Clear Program); (c) press the  button and start over.



GEM-RP1CAe2/GEM-K1CA Keypad Easy Program Menu

To create a custom program using the GEM-RP1CAe2/GEM-K1CA keypad, simply answer the following questions and record your information on the *Easy Menu Programming Worksheet*. In each of the following steps, press **MENU** to set cursor, the NEXT/YES button to go forwards, the PRIOR/NO button to go backwards, **SAVE** to save and **RESET** twice to exit at any time.

#of Zns in Area1
Enter # Zones XX

(Direct Entry)

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

- Enter the total number of zones to be programmed for Area 1.
- Valid entries are from 08 to 96. Directly enter the total number of zones, including leading zeros.
- The system is based on groups of 4 zones each (after the first 8 zones), and will automatically round up to the next group of 4. For example, if you enter 18, it will automatically convert this to 20 zones. Press **SAVE** to save. Press the NEXT/YES button to proceed.

The GEM-X255 is limited to a maximum of 96 zones and 15 keypads, which can be programmed in EZ Program Mode. For larger systems, use the PCD-Windows Download software.

#of Zns in Area2
Enter # Zones XX

(Direct Entry)

Total Number of Zones in Area 2 (New Program Only)

- Enter the total number of zones to be programmed for Area 2.
- Valid entries are from 00 to 88. Directly enter the total number of zones, including leading zeros.
- The system is based on groups of 4 zones each (after the first 8 zones), and will automatically round up to the next group of 4. For example, if you enter 18, it will automatically convert this to 20 zones. Press **SAVE** to save. Press the NEXT/YES button to proceed.

Fire Zones
Enter Zone # **

(Direct Entry)

Fire Zones in Area 1 (New Program Only)

- Enter the zone number of any Fire Zones (including 2-wire, 4-wire or wireless).
- Valid entries are from 01 to 96.
- Directly enter each zone number, including leading zeros, and press **SAVE** to save, and then repeat for any additional zone(s). Press the NEXT/YES button to proceed.

2-Wire Fire Zns
Enter Zone # **

(Direct Entry)

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

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

NOTE: Only zones which have been designated as Fire Zones can be programmed as 2 Wire Fire zones. JP3 must be set to "2-WF" position for 2-wire fire for zones 7-8. (refer to Installation Instructions).

Report All Zones
To Central? Y/N

(Press YES or NO)

Local or Central Station Reporting System (New Program Only)

Press the NEXT/YES button for all zones to report; press the PRIOR/NO button for local system.

Exit/Entry Zones
Enter Zone # XX

(Direct Entry)

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

- Enter the zone numbers of zones to be used as Exit/Entry zones.
 - Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
 - Press **SAVE** to save and repeat for any additional zone(s); press the NEXT/YES button to proceed.
- NOTE:** Entry Delay Time of 30 seconds and Exit Delay Time of 60 seconds will automatically be programmed.

Interior Zones
Enter Zone # XX

(Direct Entry)

Interior Zones in Area 1 (New Program Only)

- Enter the zone numbers to be used as Interior Zones.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press **SAVE** to save and then repeat for any additional zone(s).
- Press the NEXT/YES button to proceed.
- All Interior zones will also be automatically programmed as "Exit/Entry Follower" and as "Power Up Delay" zones.

24 Hour Zones
Enter Zone # **

(Direct Entry)

24 Hour Zones in Area 1 (New Program Only)

- Enter the zone numbers of zones to be used as 24 Hour zones.
 - Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
 - Press **SAVE** to save and repeat for any additional zone(s); press the NEXT/YES button to proceed.
- NOTE:** 24 Hour Zones will automatically be programmed as audible (Burg Output).

Chime Zones
Enter Zone # **

(Direct Entry)

Chime Zones in Area 1 (New Program Only)


- Enter the zone numbers which are to be used as Chime Zones.
 - Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
 - Press **SAVE** to save and then repeat for any additional zone(s), press the NEXT/YES button to proceed.
- NOTE:** A chime time of 2 seconds will be automatically programmed.



Chime 2 Zones
Enter Zone # **

(Direct Entry)

Chime 2 Zones in Area 1 (New Program Only)


- Enter the zone numbers which are to be used as Chime 2 Zones.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the NEXT/YES button to proceed.

NOTE: A chime time of 2 seconds will be automatically programmed.
Chime 2 zones give a distinct pulsating tone when zone is faulted.

Exit/Entry2 Zones
Enter Zone # **

(Direct Entry)

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


- Enter the zone numbers of zones to be used as Exit/Entry zones.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and repeat for any additional zone(s); press the NEXT/YES button to proceed.

NOTE: An Entry Delay Time of 30 sec. and an Exit Delay Time of 60 sec. will automatically be programmed.

50mS Loop Zones
Enter Zone # **

(Direct Entry)


50 mS Loop Response Zones (New Program Only)

- Enter the zone numbers of zones to have a 50mS loop response.
- Valid entries are from 01 to 08. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the NEXT/YES button to proceed. **Note:** Only panel zones 01-08 can be programmed for Quick Loop Response. All other zones can be programmed via their respective EZM's (hardwire). **Note: 750mS is required for Loop Response time in UL installations.**

Aux Output Zones
Enter Zone # **

(Direct Entry)

Aux Output Activated on Alarm Zones (New Program Only)


- Enter the zone numbers of zones to activate the Aux Output upon alarm.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the NEXT/YES button to proceed.

NOTE: An Aux Output Timeout of 15 minutes will automatically be programmed.

Sensor Watch Zns
Enter Zone # **

(Direct Entry)

Sensor Watch Zones (New Program Only)


- Enter the zone numbers of zones to be Sensor Watch zones.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the NEXT/YES button to proceed.

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

KP Sndr Alrm Zns
Enter Zone # **

(Direct Entry)


Keypad Sounder On Alarm Zones (New Program Only)

- Enter the zone numbers of all zones to activate the Keypad Sounder upon alarm.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the NEXT/YES button to proceed.

Auto Byp REnt Zn
Enter Zone # **

(Direct Entry)

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

- Enter the zone numbers of zones to be Auto Bypass Re-entry zones.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the NEXT/YES button to proceed.
- Auto Bypass Re-entry Zones allow the system to be armed with the zone faulted but come back into the system (armed) when the zone is subsequently closed.

Enable No EOLR
Zones Y/N

(Press YES or NO)

Enable No EOLR Zones (New Program Only)

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

Enable Telco
Line Test? Y/N

(Press YES or NO)

Enable Telco Line Fault Test?

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

Enable Burg Out
Chirp? Y/N

(Press YES or NO)

Enable Burg Output Chirp on KeyFob?

- Press the NEXT/YES button to enable Burg Output Chirp on KeyFob Arm / Disarm.
 - Press the PRIOR/NO button to continue.
- NOTE:** The Burg Output will chirp once on Keyfob Arm and twice on Keyfob Disarm.



Enable SIA CP-01?
Y/N

(Press YES or NO)

Enable SIA CP-01 Features?

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

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

Area 1 Keypads
Enter # KPs 01

(Direct Entry)

Number of Keypads in Area 1

- Enter the total number of Keypads to be installed in Area 1.
 - Valid entries are from 01 to 15. Directly enter the number of keypads, including leading zeros.
- Press to save. Press the NEXT/YES button to proceed.

Area 2 Keypads
Enter # KPs 00

(Direct Entry)

Number of Keypads in Area 2

- Enter the total number of Keypads to be installed in Area 2.
 - Valid entries are from 00 to 15. Directly enter the number of keypads, including leading zeros.
- Press to save. Press the NEXT/YES button to proceed. **NOTE:** Area 2 keypads must have zones in Area 2, otherwise the keypad will indicate "Out Of System".

Central Phone #

(Direct Entry)

Central Station Receiver 1 Telephone Number

- Enter telephone number of up to 16 digits.
 - Press through for digits 1-9; for a zero and for a blank (*).
 - Press through for letters B-F, respectively.
 - Pre-Dial Delay = "D" (); Dial-Tone Detection = "E" (.
 - Press to save and press the NEXT/YES button to proceed.
- NOTE:** Central Station Receiver 2 and 3 Telephone Numbers must be entered in Direct Address Programming. See CS Receiver Options.

Easy Programming of Auto download ID #'s and PC Preset Callback Numbers (GEM-RP1CAe2 or GEM-K1CA keypads only) from the Central Station Telephone number.

For unattended PC Preset downloading, it is now possible to set the Auto download ID #'s and PC Preset Callback from the Keypad Easy Program Mode.

- At the field for CENTRAL PHONE #, program an "F" followed by the Auto Download ID # (2 digits) and then the Callback Telco # (up to 13 digits).
- Press or to save.
- Exit Program Mode ()
- Enter Master Code
- Press or
- Go to Function "ACTIVATE DOWNLOAD Y/N" and press YES (or .
- The panel will automatically call the PC Preset computer and download the program on the specified Auto Download line # of PC Preset. Example: Program an Auto download ID # of 07 and a PC Preset Callback # of 1-516-842-9400


CENTRAL PHONE #
F0715168429400

- Go to Central Phone # input screen and press: [*] [5] [0] [7] [1] [5] [1] [6] [8] [4] [2] [9] [4] [0] [0] (or).

**Central Station
Account # (____)**

(Direct Entry)

Central Station Receiver 1 Account Number


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

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

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

(Direct Entry)

Central Station Receiver 1 Format

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

DATA ENTRY	CS RECEIVER 1 FORMAT
blank(*)	Ademco Slow, Silent Knight Slow
1	Sescoa, Vertex, DCI, Franklin Fast
2	Radionics Fast
3	Silent Knight Fast
4	Radionics, DCI, Franklin Slow
5	Universal High Speed
8	Radionics BFSK

DATA ENTRY	CS RECEIVER 1 FORMAT
9	FBI 4/3/1
0	Radionics Modem 2
B	SIA
C	Ademco Point ID
D	Ademco Express
E	Pager

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



Enter user code
001 123 -E3-

User# User Code

Enter User Codes (Press the **MENU** button to set cursor.)

Enter up to 195 User Codes with User Options, Authority Level and Access Control Options (if necessary) for each code. Refer to the tables below and on the next page for available data entries for User Options, Authority Level and Access Control Options. **Note:** All 195 Users must be assigned to areas in "Enable User Code by Area". Only Users 1-96 can be assigned through Addresses 2455-2550 in Direct Address Programming; other User Areas must be assigned through the PCD-Windows software.

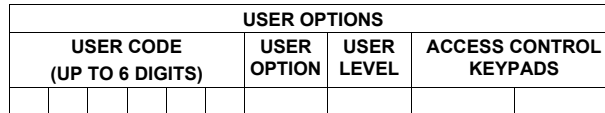
Press the **MENU** button to set the cursor to the User Code. Use the number buttons **1** through **9P** to enter a code from 3 to 6 digits. Enter up to 6 digits in the first six boxes from left to right for each user code. Valid entries are: 0-9. **Note:** Press the **0** button for a zero. No blank spaces in between; leave blank (*) any trailing boxes. If an "Ambush Code" (Address 0495) is entered, *do not* program the first two digits of ANY User Code as the same digits entered for the "Ambush Code".

If the programmed code is less than 6 digits, press the **MENU** button to set the cursor to the OPTION/LEVEL.

Refer to the tables below for the available User Option and User Level data entries. Enter the user options data in the left digit. Enter the level data (with arming options, if any, added) in the right digit. **Note:** For entries greater than 9, press the *** 1** buttons through the *** 5** buttons for B through F, respectively.

For Keypad Access Control, press the **MENU** button once again to program applicable keypads. Refer to the tables below, use the number buttons to enter the data for Keypad 1-4 in the right digit; and the data for Keypad 5-8 data in the left digit. (Press the **0** buttons for blank).

Example: Enter a code of "123456" as "123456" (from left to right).



USER OPTIONS				
DATA ENTRIES	BLOCKED VIEW	USER PROGRAM	BYPASS	OVERVIEW
blank (*)	DISABLED			
1	Y			
2		Y		
3	Y	Y		
4			Y	
5	Y		Y	
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C			Y	Y
D	Y		Y	Y
E		Y	Y	Y
F	Y	Y	Y	Y

Note: "Y" indicates option is enabled.

DATA ENTRIES	AUTHORITY LEVEL	CODE TYPE
blank (*)	NONE	ARM/DISARM
1	LEVEL 1	ARM/DISARM
2	LEVEL 2	ARM/DISARM
3	LEVEL 3	ARM/DISARM
4	NONE	ARM ONLY
5	LEVEL 1	ARM ONLY
6	LEVEL 2	ARM ONLY
7	LEVEL 3	ARM ONLY
8	NONE	SERVICE
9	LEVEL 1	SERVICE
0	LEVEL 2	SERVICE
B	LEVEL 3	SERVICE
C*	NONE	AMBUSH
D*	LEVEL 1	AMBUSH
E*	LEVEL 2	AMBUSH
F*	LEVEL 3	AMBUSH

***Note:** These entries are only available when address 3905 bit 7 is enabled.

ACCESS CONTROL KEYPADS				
DATA ENTRIES	K.P. 5	K.P. 6	K.P. 7	K.P. 8
blank (*)	NONE			
1	Y			
2		Y		
3	Y	Y		
4			Y	
5	Y		Y	
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C			Y	Y
D	Y		Y	Y
E		Y	Y	Y
F	Y	Y	Y	Y

Note: "Y" indicates option is enabled.

ACCESS CONTROL KEYPADS				
DATA ENTRIES	K.P. 1	K.P. 2	K.P. 3	K.P. 4
blank (*)	NONE			
1	Y			
2		Y		
3	Y	Y		
4				Y
5	Y			Y
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C				Y
D	Y			Y
E		Y	Y	Y
F	Y	Y	Y	Y

Note: "Y" indicates option is enabled.


USER AUTHORITY LEVEL	
KEYPAD DISPLAY FUNCTION MENU	
FUNCTION	LEVEL*
DISPLAY ZN FAULTS	1
DISPLAY ZN BYPASSED	1
DISPLAY ZN DIRECTORY	1
ACTIVATE BELL TEST	1
DISPLAY PHONE #S	1
DISPLAY SYS TRBL	1
DISPLAY FIRE ALARM	1
DISPLAY FIRE TRBL	1
DISPLAY OP/CL	3
ACTIVATE OVERVIEW	3**
ACTIVATE CHIME	1
ACTIVATE WATCH	2
RESET SYSTEM TRBL	3
RESET SENSOR MSG	3
START EXIT TIME	1
FAULT FIND	***
ACTIVATE LOCATE	***
EZM ZONE FIND	***
ACTIVATE DIALER TEST	3
DISPLAY ALARM LOG	3
DISPLAY TOTAL LOG	3
DISPLAY FIRE LOG	3
DISPLAY OP/CL LOG	3
DISPLAY SYSTEM LOG	3
AUTOARM IN 1-4HRS	2
DISPLAY AUTOARM SCHD	3
ACTIVATE PROGRAM	3**
ACTIVATE DOWNLOAD	3
DISPLY RF XMITTER STAT	1
RELAY CONTROL	1

NOTES:

- * Minimum Level required to access function
- ** Level-3 Code with appropriate user option
- *** Requires Dealer Code



USER OPTIONS	
OPTIONS	EXPLANATION
Disabled	User Code not active in this area.
Blocked View	Allows User Code to block another code from being viewed by another user. An unblocked code cannot view a blocked code, but a blocked code can view all codes. The master user code and the dealer program code can view all codes.
User Program	User Program Option is enabled for Keypad 1 only, wherever it is connected (any area). If enabled, Level 3 must also be enabled.
Bypass	Allows User Code to bypass zones.
Overview	This option, along with Level 3 Authorization, enables selection of OVERVIEW mode at a keypad. This Mode provides a system status display of all areas at a glance.
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 "S" appears on the GEM-RP1CAe2 keypad and the area can be disarmed with any valid User Code, including a Service Code. If the area is armed with OTHER than a Service Code, it CANNOT be disarmed with a Service Code. This is typically used to allow tradesmen access to premises under control of the owner.
Ambush	There are two types of Ambush Codes: (1) A 2-digit code (prefix) that is entered immediately prior to (and as part of) the regular User Code and (2) A separate and unique User Code. Disarming with an Ambush Code will cause a silent report to be sent to a central station. Thus, should a user be forced to disarm, he can silently signal an emergency while appearing to be merely disarming the system.
Access	This is normally used to activate a door striker while an area is disarmed. A code with the access option will not function as an arm/disarm code. When the code is entered, the keypad will display "ENTER NOW" and the Brown Wire on the keypad will become Active Low (Ground Potential) for 7 seconds.

Related User Options: "Ambush Code" (Address 0495), "Panel Access Code" (Address 0490), "Dealer Security Code" (Address 0500) & "Enable User Code by Area" (Address 2455-2550).

Press  to save each code.

To proceed to the next User Code, set the cursor to the User Number and change it using the number buttons. Program a new User Code as previously described. Press NEXT  button to proceed.

Example: Program a code of "2222" for user 02, with User Option of "User Program", User "Level 3" and Access Control Option "Keypad No. 1". Enter "2222" for a user code, "2 3" for user option and "blank(*) 1" for access control option.

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



Enter user code
 001 123456- 6-

User# User Code

Enter Proximity Card Users (FOR ACM USE ONLY).

(Press the **MENU** button to set cursor). See **WI1221** for more information.

Enter up to 195 Proximity Cards with User Options, Access Level and ACM Area (if necessary) for each card. Refer to the tables below and to **WI1221** for more information.

Press the **MENU** button to set the cursor to the User Code. Use the number buttons **1** through **9P** to enter a 6 digit code. Enter the digits in the first six boxes from left to right for each user code. Valid entries are: 0-9. **Note:** Press the **0** button for a zero. No blank spaces in between; leave blank (•) any trailing boxes.

Refer to the tables below and **WI1221** for the available User Level data entries. Enter the level data in the right digit. Leave blank (•) in the left digit. **Note:** For entries greater than 9, press the ***** **1** buttons through the ***** **5** buttons for B through F, respectively.

For ACM Area, enter data for area 1-4 in the right digit and data for area 5-8 in the left digit. See table below.

Example: Enter a code of "123456" as "123456" (from left to right).

USER OPTIONS					
USER CODE (UP TO 6 DIGITS)			USER LEVEL	ACM AREA	

DATA ENTRIES	ACM AREA			
	A5	A6	A7	A8
blank (•)	NONE			
1	Y			
2		Y		
3	Y	Y		
4			Y	
5	Y		Y	
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C			Y	Y
D	Y		Y	Y
E		Y	Y	Y
F	Y	Y	Y	Y


DATA ENTRIES	ACM AREA			
	A1	A2	A3	A4
blank (•)	NONE			
1	Y			
2		Y		
3	Y	Y		
4			Y	
5	Y		Y	
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C			Y	Y
D	Y		Y	Y
E		Y	Y	Y
F	Y	Y	Y	Y

DATA ENTRIES	ACCESS LEVEL	CODE TYPE
blank (•)	0	NONE
1	1	NONE
2	2	NONE
4	0	ARM/DISARM
5	1	ARM/DISARM
6	2	ARM/DISARM
8	0	ARM ONLY
9	1	ARM ONLY
0	2	ARM ONLY


Note: "Y" indicates option is enabled. **Note:** "Y" indicates option is enabled.















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

Zone # Xmitter Check Point
Mapped to ID Sum #

RF Transmitter Points (Press  to set cursor.)

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


- The **zone number** (01–96) to which the transmitter will be mapped.
- The **6-digit RF ID #** and **1-digit checksum number** printed on the transmitter and box,
- The **point number** (1–2); enter “9” for *unsupervised* (all points).
- Press  to save and NEXT/YES button to proceed when all transmitters have been entered.
- The GEM-X255 allows up to 255 RF Transmitter Points with the PCD-Windows Download software.

NOTE: When programming the ID Code number, “0” through “9” =  through  ; A =   ; B =   ; C =   ; D =   ; E =   and “F” =  .

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

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

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

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

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

1. Enter the Enroll mode as described above.
2. Enter Zone “06”.
3. Open point-1 loop.
4. Install the battery. The keypad will beep once to indicate that one point has been programmed. (Transmitter 287613:1, point 1 will be mapped

- to Zone 6).
5. Enter Zone “09”.
6. Close point-1 loop and open point-2 loop.
7. Remove the transmitter battery, then re-install it. The keypad will beep once to indicate that one point has been programmed. (Transmitter 287613:1, point 2 is mapped to Zone 9).

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


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















KF Area Xmitter Check Aux
Area ID Sum 1&2

Keyfob Transmitters as Arm/Disarm & Control Devices (Press  to set cursor.)

Keyfobs can be programmed as “Arm/Disarm” devices using their On/Off buttons (refer to WI752). For each Keyfob Transmitter, enter:

- The **Keyfob Transmitter number** (01–16).
- The **area number** to which transmitter is assigned (0 to disable keyfob, 1 or 2).
- The **6-digit RF ID #** and **1-digit checksum number** printed on the transmitter and box,
- The **Aux 1 Option** (see keyfob aux 1 & aux 2 options).
- The **Aux 2 Option** (see keyfob aux 1 & aux 2 options).
- **NOTE:** Keyfobs 1-16 report openings and closings as Users 180-195.

• Press  to save and NEXT/YES button to proceed when all keyfobs have been entered.

NOTE: When programming the ID Code number, “0” through “9” =  through  ; A =   ; B =   ; C =   ; D =   ; E =   and “F” =  .



Keyfob Transmitters as Zone Input Devices

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

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 96 keyfobs (using 1 button) or 48 keyfobs (using 2 buttons) or 28 keyfobs (using all 4 buttons) or any combination up to a maximum of 96 controlled zones can be assigned, providing multiple wireless panic buttons on a system, each reporting to a Central Station or a pager and/or annunciating on a keypad the keyfob zone number with a description. *To assign a keyfob to a zone:* program the keyfob as you would a transmitter, entering the keyfob ID code, check sum and point number at the appropriate zone. The "Quick Method" is not allowed. The zone may be hardwired to an electrical sensor as well as assigned to a keyfob (either one will activate the zone alarm output). **NOTE:** If assigning a keyfob to a zone, the "ON/OFF" buttons on the keyfob will no longer arm/disarm the system. The keyfob is converted to a "panic only" device.

DATA ENTRY	AUX 1/AUX 2 OPTIONS
0	None
1	Relay Group 1 Toggle
2	Relay Group 2 Toggle
3	Relay Group 3 Toggle
4	Relay Group 4 Toggle
5	Relay Group 5 Toggle
6	Relay Group 6 Toggle
7	Relay Group 7 Toggle
8	Relay Group 8 Toggle
9	Panic
A	Auxiliary
B	Instant
C	Aux. Output Toggle
D	Access on Aux. Output
E	Arm STAY ("K Series" Keypads Only)
F	Interior Bypass ("Classic" RP Series Keypads only)

001-

(Direct Entry)

Enter Zone Descriptions

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

- To proceed to the next description, place the cursor under the Zone Number (e.g. "01") and change the Zone Number using and . Program new description as above.
- **NOTE:** Zone Descriptions can only be entered through the GEM-RP1CAe2 Keypad or by using the Napco Quickloader Software. See Easy Menu Programming Worksheet for available zone description characters.

Enter Date
(/ /)

(Direct Entry)

Enter Date (Press to set cursor).

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

Enter Time
(:)

(Direct Entry)

Enter Time (Press to set cursor.)

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

Dealer Code
456789

Dealer Code

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

DEALER CODE
RE-ENTER

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

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

CLEAR PROGRAM: Should it be necessary to create a new custom default program, (a) from the Dealer Program Mode, press to enter the Address Program Mode; (b) access Location 4091 (Clear Program) or 4093 (Cold Start); (c) press and then (d) press to exit the Dealer Program Mode. A "SYSTEM TROUBLE/EDS-00 SERVICE" will occur. Press to silence the keypad.

4091 XX H

Clear Dealer Program (Erases Dealer Program)

Use this feature to erase the Panel Program, while maintaining Scheduled Data and Zone Descriptions. Access address 4091 and press . Data entry is not allowed. **NOTE:** Enter Easy Menu Driven Program Mode to reprogram system.

4093 XX H

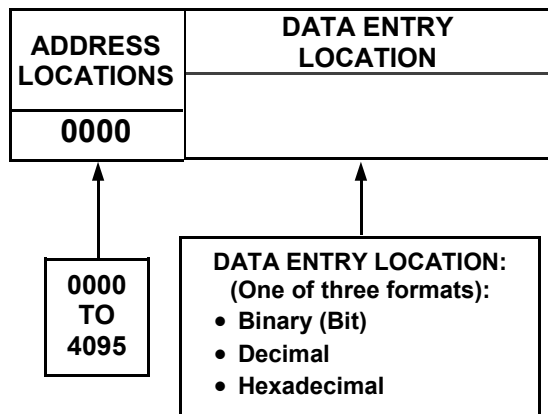
Cold Start (Erases Entire Program)

This erases all programmed data (Dealer Program, Zone Description Data and Schedules). Access address 4093 and press . Data entry is not allowed. **NOTE:** Some features (schedules) can only be programmed again with the Downloading Software.

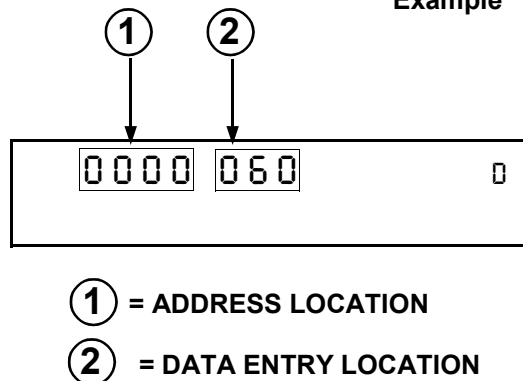
DIRECT ADDRESS PROGRAM MODE

DIRECT ADDRESS OVERVIEW

Direct Address Programming allows you to go directly to the address locations (up to 4095) and change the data entries manually in order to customize your control panel options. Whereas the Easy Menu Program Mode guides you through limited selections to get you started, **Direct Address Program Mode** allows you to change all options directly. It consists of up to 4095 address locations each with data entry locations as shown in the following diagram (below left). The data entry location accepts data in one of three formats: Binary, Decimal and Hexadecimal (explained below in "Address Mode Displays"). The following diagram (below right) illustrates a *Decimal* format data entry location (using a GEM-RP1CAe2/GEM-K1CA keypad).



GEM-RP1CAe2/GEM-K1CA Keypad Display Example



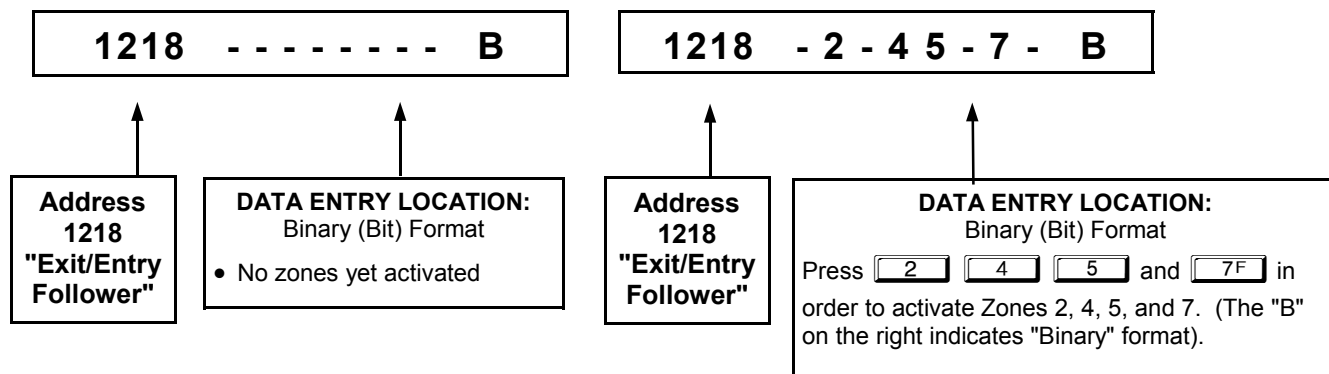
ADDRESS MODE DISPLAYS

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

A) Binary (Bit) Format

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

EXAMPLE: BIT Format with the GEM-RP1CAe2/GEM-K1CA: Program Zones 2, 4, 5 and 7 as *Exit/Entry Follower Zones*.



DETERMINE THE DATA ENTRIES

Referring to ZONE FEATURES in the Programming Worksheets that follow, the Exit/Entry Follower for Zones 1 through 8 are located at address 1218.

ZONE FEATURES	ADDR	ZONES 1 → 8								ADDR	ZONES 9 → 16							
		Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8		Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
Exit/Entry Follower	1218						6	7	8	1318								

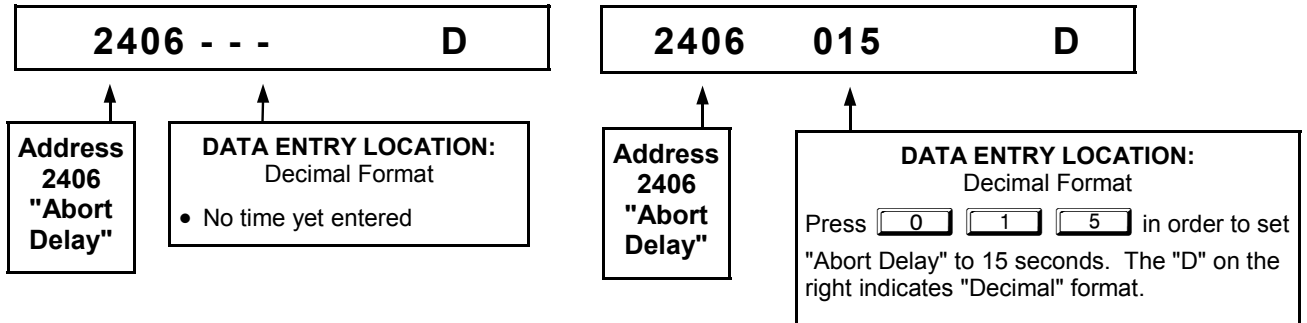
PROGRAM THE DATA ENTRIES

1. Enter the panel's Dealer Security Code, then press **[MENU]**.
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES. **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using **[BYPASS]**.
3. Press **[RESET]** to enter the Address Program Mode. Address "0000" will display.
4. Press **[1] [2] [1] [8A]** to access Address 1218. *The existing data will display and the cursor will advance to the data field.*
5. Press **[6] [7F] [8A]**. The numbers 6,7 and 8 will appear on the keypad display indicating the zones activated.
6. Press **[ENTER]** to save. Address 1218 is now programmed with "6,7,8".
7. Press **[MENU]** and enter another 4-digit address to continue programming--or--press **[RESET]** to exit and resume normal keypad operation.

B) Decimal Format

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

EXAMPLE: DECIMAL Format with the GEM-RP1CAe2/GEM-K1CA: Program Abort Delay to be 15 seconds.



DETERMINE THE DATA ENTRIES

Referring to SYSTEM DELAYS & TIMEOUTS in the Programming Worksheets that follow, the Abort Delay is located at address 2406:

ABORT DELAY (sec.)	ADDRESS 2406		

[Default = 000]

PROGRAM THE DATA ENTRIES



1. Enter the panel's Dealer Security Code, then press **[MENU]**.
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES. **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using **[BYPASS]**.
3. Press **[RESET]** to enter the Address Program Mode. Address "0000" will display.
4. Press **[2] [4] [0] [6]** to access Address 2406. *The existing data will display and the cursor will*

advance to the data field.

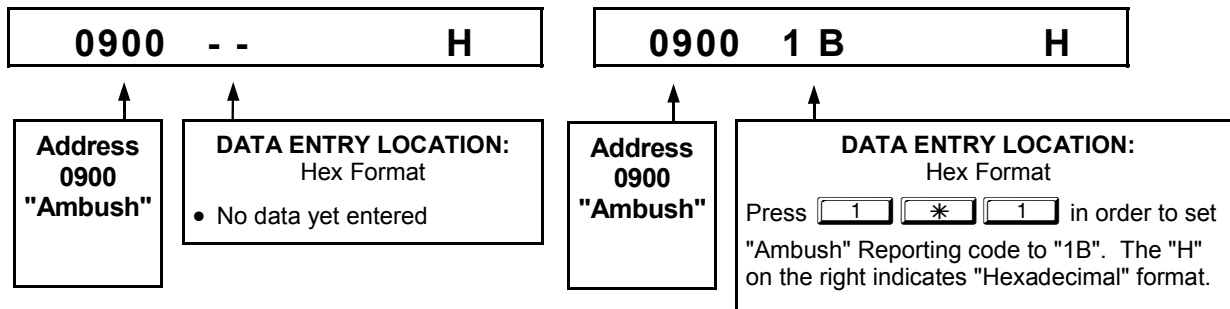
5. Press . The numbers 015 will appear on the keypad display indicating the number of seconds entered.
6. Press to save. Address 2406 is now programmed with a 15-second Abort Delay.
7. Enter another 4-digit address to continue programming or press to exit and resume normal keypad operation.

C) Hexadecimal Format

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

HEXADECIMAL ENTRIES					
ENTRY TOTAL	PRESS 	KEYPAD DISPLAYS	ENTRY TOTAL	PRESS 	KEYPAD DISPLAYS
blank	<input type="text" value="0"/>	•	8	<input type="text" value="8A"/>	8
1	<input type="text" value="1"/>	1	9	<input type="text" value="9P"/>	9
2	<input type="text" value="2"/>	2	10	<input type="text" value="*"/> <input type="text" value="0"/>	0
3	<input type="text" value="3"/>	3	11	<input type="text" value="*"/> <input type="text" value="1"/>	B
4	<input type="text" value="4"/>	4	12	<input type="text" value="*"/> <input type="text" value="2"/>	C
5	<input type="text" value="5"/>	5	13	<input type="text" value="*"/> <input type="text" value="3"/>	D
6	<input type="text" value="6"/>	6	14	<input type="text" value="*"/> <input type="text" value="4"/>	E
7	<input type="text" value="7F"/>	7	15	<input type="text" value="*"/> <input type="text" value="5"/>	F

EXAMPLE: HEXADECIMAL Format with the GEM-RP1CAe2/GEM-K1CA: Program an Ambush CS Reporting Code to be "1B".



DETERMINE THE DATA ENTRIES

Referring to CS REPORTING CODES in the Programming Worksheets that follow, Ambush is located at address 0900. In the "Keypad Reporting Codes" table, the data entries needed to assign a code of "1B" are " " and " ".

KEYPAD REPORTING CODES	ADDRESS 0900-0904		
	LEFT	ADDR	RIGHT
Ambush	1	0900	B
Panic		0901	
Fire		0902	
Auxiliary		0903	
Tamper		0904	

PROGRAM THE DATA ENTRIES

1. Enter the panel's Dealer Security Code, then press **MENU**.
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES. **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using **BYPASS**.
3. Press **RESET** to enter the Address Program Mode. Address "0000" will display.
4. Press **0** **9P** **0** **0** to access Address 0900. *The existing data will display and the cursor will advance to the data field.*
5. Since you wish the reporting code to be "1B", press **1** to enter a "1" in the display, and press ***** **1** to enter a "B" in the display. **NOTE:** The right address is reported first, therefore, in the address table, the right digit is the 1st digit of the reporting code ("1" in this example).
6. Press **SAVE** to save. Address 0900 is now programmed with an Ambush reporting code of "1B".
7. Press **MENU** and enter another 4-digit address to continue programming--or--press **RESET** to exit and resume normal keypad operation.

PROGRAMMING CONVENTIONS USED IN THIS MANUAL

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

Keep the Keypad Programming Worksheets on file for future reference.

General Programming Steps

1. Contact the central station to ascertain receiver format, data format, event codes, subscriber numbers and telephone number(s).
2. Select the desired features by writing in (pencil recommended) the respective "address" boxes. Refer to the Programming Options and Worksheets for guidance in selecting the "data" to be entered into those boxes.
3. Program the data entered in the boxes on the worksheets into the respective addresses. The display will show the entry numerically, but if hexadecimal format will display "0" for the number 10, and letters "B", "C", "D", "E", and "F" for the numbers 11 through 15, respectively. To program a 10, press ***** **0**. To program 11 through 15, press ***** **1** through ***** **5**, respectively.

The displays will appear after a brief delay.

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

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

SYSTEM DELAYS & TIMEOUTS (ADDRESS 0000-0002, 2402, 2406, 2414 & 3902)

EXIT DELAY (sec.)	ADDRESS 0000			
-------------------------	---------------------	--	--	--

[Default = 060]

ENTRY DELAY 1 (sec.)	ADDRESS 0001			
----------------------------	---------------------	--	--	--

[Default = 030]

ENTRY DELAY 2 (sec.)	ADDRESS 0002			
----------------------------	---------------------	--	--	--

[Default = 030]

Aux. Output Access Control Timeout (sec.)	ADDRESS 2402			
--	---------------------	--	--	--

[Default = 000]

ABORT DELAY (sec.)	ADDRESS 2406			
--------------------------	---------------------	--	--	--


[Default = 000]

Telephone Line Test Delay (x15 sec.)	ADDRESS 2414			
---	---------------------	--	--	--

[Default = 000]

CS Telco 3 Report Delay (sec.)	ADDRESS 3902			
---	---------------------	--	--	--

[Default = 000]

 Select delay/timeout (0-255 seconds).

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

 Press  or  to save.

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

SYSTEM DELAYS & TIMEOUTS (ADDRESS 2407, 2408 & 4088)

CHIME TIME (¼sec.)	ADDRESS 2407			
--------------------------	---------------------	--	--	--


[Default = 008 x ¼ sec. = 2 sec.]

AC Fail Report Delay (x10 min.)	ADDRESS 2408			
---------------------------------------	---------------------	--	--	--

[Default = 008]

Sensor Watch Delay (Hr.)	ADDRESS 4088			
-----------------------------	---------------------	--	--	--

[Default = 024]

 1. Enter delay/timeout in corresponding address locations above.
Note: All entries for address 2407 are in quarter seconds (.25 seconds).
 Therefore, the default of 008 results in a 2 second timeout.

 2. Press  or  to save.

SYSTEM DELAYS & TIMEOUTS (ADDRESS 2400, 2401, 2403-2405, 4082 & 4083)

Reset Output Timeout (min.)	ADDRESS 2400				
[Default = 000]					

Aux. Output Timeout (min.)	ADDRESS 2401				
[Default = 000]					

Burg. Alarm Output Timeout (min.)	ADDRESS 2403				
[Default = 015]					

Pulse Alarm Output Timeout (min.)	ADDRESS 2404				
[Default = 015]					

Fire Output Timeout (min.)	ADDRESS 2405				
[Default = 000]					

1. Select delay/timeout (0-255 min.).
2. Enter in corresponding address locations above and right.
3. Press or to save.

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

Report Cancel Window (min or sec.)	ADDRESS 4082				

[Default = 000]
 V.1 or less = sec.
 V.3 or greater = min.
 Program for at least 5 minutes in a CP-01 installation.*

Auto Disarm Rearm Delay (min.)	ADDRESS 4083				
[Default = 000]					

*Address 4082: When "Enable CP-01 Features" is selected in the Easy Program menu, this time is set to 7 minutes.

KEYPAD SYSTEM CODES (ADDRESS 0490-0495 & 0500-0502)

Panel Access Code	ADDRESS 0490-0492					
	0490		0491		0492	
	L	R	L	R	L	R

[Default = blank (*) blank (*) from address 0490-0492]

PANEL ACCESS CODE: Enter up to 6 digits to activate a door strike while the area is disarmed.

1. Enter in both left and right digits of address locations.
2. Valid entries are: 0-9.

Note: Also, "Access Control on Aux. Output" (Address 2418) and "Aux. Output Access Control Timeout" (Address 2402) must both be enabled.

Ambush Code	ADDRESS 0495	
	LEFT	RIGHT

[Default = 99]

AMBUSH CODE: Enter a 2-digit code used just prior to disarming and will activate an Ambush Condition, causing a SILENT report to be sent to the central station.

1. Enter in both left and right digits of address locations.
2. Valid entries are: 0-9.

Note: Also, "Enable Keypad Ambush" (Address 2440-2454), "Report on Ambush Alarm" (Address 1125, 1127, 1135 & 1137) must be enabled and "Ambush Reporting Code" (Address 0900) must be provided.

Dealer Security Code	ADDRESS 0500-0502					
	0500		0501		0502	
	L	R	L	R	L	R

[Default = blank (*) blank (*) from address 0500-0502]

DEALER SECURITY CODE: Enter up to 6 digits to be used by the dealer to enter programming.

1. Enter in both left and right digits of address locations.
2. Valid entries are: 0-9.

Note: If left blank, the Master Security Code must then be used to enter programming.

CS RECEIVER FORMAT OPTIONS (ADDRESS 0520, 0521, 0525, 0526, 0550, 0551, 0575 & 0576)

CS Receiver 1 Format	ADDRESS 0525		

CS Receiver 2 Format	ADDRESS 0550		


CS Receiver 3 Format	ADDRESS 0575		

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

DATA ENTRIES		CS RECEIVER FORMATS
LEFT	RIGHT	
blank (*)	blank (*)	Ademco Slow, Silent Knight Slow
blank (*)	1	Sescoa, Vertex, DCI, Franklin Fast
blank (*)	2	Radionics Fast
blank (*)	3	Silent Knight Fast
blank (*)	4	Radionics, DCI, Franklin Slow
blank (*)	5	Universal High Speed
blank (*)	8	Radionics BFSK
blank (*)	9	FBI 4/3/1
blank (*)	0	Radionics Modem 2
blank (*)	B	SIA
blank (*)	C	Ademco Point ID
blank (*)	D	Ademco Express
blank (*)	E	Pager
blank (*)	F	Disabled
1	blank (*)	Radionics Modem IIe

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 digit address locations for each CS Receiver.

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


Leading Digits for Pager Format (1st Digit)	ADDRESS 0520		




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

Leading Digits for Pager Format (2nd Digit)	ADDRESS 0521		

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

LEADING DIGITS FOR PAGER FORMAT: In Pager Format reporting, the message typically begins with "00". However, for some pager services, this will cause the Pager's Voice Mail feature to activate. This option allows you to program these digits to any number desired. Typical Pager report is "003 022 1234", where 3 is the Event, 22 is the zone, and 1234 is the Subscriber ID number. For example, if the Leading Digits are programmed as "98", the Pager report will now appear as "983 022 1234".

 1. Enter in 1st and 2nd Leading Digits in right digit only (left digit is not used) as shown.

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

0526	CS Receiver 1 Options	
Default		Option
OFF	1	1400Hz Handshake/Kissoff *
OFF	2	2300Hz Handshake/Kissoff *
OFF	3	Enable Zone Number on Pulse Alarm
OFF	4	Single Digit Only
OFF	5	Sum Check
OFF	6	3/1 with Extended Restores
OFF	7	Report to TCP/IP Receiver or AES (Telco 1)**
OFF	8	RESERVED


0551	CS Receiver 2 Options	
Default		Option
OFF	1	1400Hz Handshake/Kissoff *
OFF	2	2300Hz Handshake/Kissoff *
OFF	3	Enable Zone Number on Pulse Alarm
OFF	4	Single Digit Only
OFF	5	Sum Check
OFF	6	3/1 with Extended Restores
OFF	7	Report to TCP/IP Receiver or AES (Telco 2)**
OFF	8	RESERVED

0576	CS Receiver 3 Options	
Default		Option
OFF	1	1400Hz Handshake/Kissoff *
OFF	2	2300Hz Handshake/Kissoff *
OFF	3	Enable Zone Number on Pulse Alarm
OFF	4	Single Digit Only
OFF	5	Sum Check
OFF	6	3/1 with Extended Restores
OFF	7	Report to TCP/IP Receiver or AES (Telco 3)**
OFF	8	RESERVED

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

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

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

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

NOTES:

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

** For NAPCO NetLink™ installations only: For each telephone number desired, enable to allow the panel to report alarms via the NL-MOD accessory. See WI1242 for more information.

CS RECEIVER FORMAT OPTIONS



CS RECEIVER TELEPHONE NUMBERS (ADDRESS 0527-0546, 0552-0571, 0577-0596)

	ADDRESS 0527-0546 (DIGITS 1-20)																			
CS Receiver 1 Telephone Number (Digits 1-20)	0527	0528	0529	0530	0531	0532	0533	0534	0535	0536	0537	0538	0539	0540	0541	0542	0543	0544	0545	0546
CS Receiver 2 Telephone Number (Digits 1-20)	0552	0553	0554	0555	0556	0557	0558	0559	0560	0561	0562	0563	0564	0565	0566	0567	0568	0569	0570	0571
CS Receiver 3 Telephone Number (Digits 1-20)	0577	0578	0579	0580	0581	0582	0583	0584	0585	0586	0587	0588	0589	0590	0591	0592	0593	0594	0595	0596

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

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

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

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

DOWNLOAD/CALLBACK OPTIONS (ADDRESS 4089, 0600-0619, 0625-0647, 1022 & 1023)

Answer on Ring Number	ADDRESS 4089		

[Default = 015]

ANSWER ON RING NUMBER: Enter the number of rings before automatic pickup by the control panel when downloading from a computer (see Glossary in WI1093). Initial value of 000 becomes 15 rings.

1. Enter digits only.
2. Valid entries are: 003-015. **NOTE:** Default is 15 Rings. Press or to save.

	ADDRESS 0600-0619 (DIGITS 1-20)																			
Callback Telephone Number 1 (Digits 1-20)	0600	0601	0602	0603	0604	0605	0606	0607	0608	0609	0610	0611	0612	0613	0614	0615	0616	0617	0618	0619

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

	ADDRESS 0625-0644 (DIGITS 1-20)																			
Callback Telephone Number 2 (Digits 1-20)	0625	0626	0627	0628	0629	0630	0631	0632	0633	0634	0635	0636	0637	0638	0639	0640	0641	0642	0643	0644

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

CALLBACK TELEPHONE NUMBERS: Enter telephone numbers to be used when downloading from a computer.

1. Enter digits only.
2. Enter up to 20 digits from left to right. **NOTE:** Leave trailing boxes blank (*).
3. Valid entries are: 0-9, B = button, C = button, D = 3 sec. pause, E = Wait for dial tone, F = ignore location. Press or to save.

Download Security Code	ADDRESS 0645-0647		

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

Callback Telephone No. Select	ADDRESS 1022

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

Auto Download ID No.	ADDRESS 1023

Valid entries - 01-99

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

DOWNLOAD SECURITY CODE: Enter up to 6 digits to be used for remote access when downloading from a computer.

1. Enter digits in address locations above.
2. Valid entries are: 0-9.

Note: Download Security Code must match the code entered in the PCD-Windows Quickloader Download Software.

CALLBACK TELEPHONE NO. SELECT: Enter either "1" for Callback Telephone Number 1 or "2" for Callback Telephone Number 2.

1. Valid entries are: 1 or 2.

CS SUBSCRIBER ID NUMBERS (ADDRESS 0650-0787)

CS TELCO 1 SUBSCRIBER OPENING/CLOSING ID NUMBERS

AREA 1 ADDRESS 0650-0653 (DIGITS 1-4) 0650 0651 0652 0653	AREA 2 ADDRESS 0654-0657 (DIGITS 1-4) 0654 0655 0656 0657	AREA 3 ADDRESS 0658-0661 (DIGITS 1-4) 0658 0659 0660 0661	AREA 4 ADDRESS 0662-0665 (DIGITS 1-4) 0662 0663 0664 0665
AREA 5 ADDRESS 0666-0669 (DIGITS 1-4) 0666 0667 0668 0669	AREA 6 ADDRESS 0670-0673 (DIGITS 1-4) 0670 0671 0672 0673	AREA 7 ADDRESS 0674-0677 (DIGITS 1-4) 0674 0675 0676 0677	AREA 8 ADDRESS 0678-0681 (DIGITS 1-4) 0678 0679 0680 0681

CS TELCO 1 SUBSCRIBER EVENT ID NUMBERS

AREA 1 ADDRESS 0682-0685 (DIGITS 1-4) 0682 0683 0684 0685	AREA 2 ADDRESS 0686-0689 (DIGITS 1-4) 0686 0687 0688 0689	AREA 3 ADDRESS 0690-0693 (DIGITS 1-4) 0690 0691 0692 0693	AREA 4 ADDRESS 0694-0697 (DIGITS 1-4) 0694 0695 0696 0697
AREA 5 ADDRESS 0698-0701 (DIGITS 1-4) 0698 0699 0700 0701	AREA 6 ADDRESS 0702-0705 (DIGITS 1-4) 0702 0703 0704 0705	AREA 7 ADDRESS 0706-0709 (DIGITS 1-4) 0706 0707 0708 0709	AREA 8 ADDRESS 0710-0713 (DIGITS 1-4) 0710 0711 0712 0713
SYSTEM ADDRESS 0714-0717 (DIGITS 1-4) 0714 0715 0716 0717			

CS TELCO 2 SUBSCRIBER OPENING/CLOSING ID NUMBERS (BACKUP REPORTING)

AREA 1 ADDRESS 0720-0723 (DIGITS 1-4) 0720 0721 0722 0723	AREA 2 ADDRESS 0724-0727 (DIGITS 1-4) 0724 0725 0726 0727	AREA 3 ADDRESS 0728-0731 (DIGITS 1-4) 0728 0729 0730 0731	AREA 4 ADDRESS 0732-0735 (DIGITS 1-4) 0732 0733 0734 0735
AREA 5 ADDRESS 0736-0739 (DIGITS 1-4) 0736 0737 0738 0739	AREA 6 ADDRESS 0740-0743 (DIGITS 1-4) 0740 0741 0742 0743	AREA 7 ADDRESS 0744-0747 (DIGITS 1-4) 0744 0745 0746 0747	AREA 8 ADDRESS 0748-0751 (DIGITS 1-4) 0748 0749 0750 0751

CS TELCO 2 SUBSCRIBER EVENT ID NUMBERS (BACKUP REPORTING)

AREA 1 ADDRESS 0752-0755 (DIGITS 1-4) 0752 0753 0754 0755	AREA 2 ADDRESS 0756-0759 (DIGITS 1-4) 0756 0757 0758 0759	AREA 3 ADDRESS 0760-0763 (DIGITS 1-4) 0760 0761 0762 0763	AREA 4 ADDRESS 0764-0767 (DIGITS 1-4) 0764 0765 0766 0767
AREA 5 ADDRESS 0768-0771 (DIGITS 1-4) 0768 0769 0770 0771	AREA 6 ADDRESS 0772-0775 (DIGITS 1-4) 0772 0773 0774 0775	AREA 7 ADDRESS 0776-0779 (DIGITS 1-4) 0776 0777 0778 0779	AREA 8 ADDRESS 0780-0783 (DIGITS 1-4) 0780 0781 0782 0783
SYSTEM ADDRESS 0784-0787 (DIGITS 1-4) 0784 0785 0786 0787			

CS SUBSCRIBER ID NUMBERS (TELCO 1 & 2)



CS SUBSCRIBER ID NUMBERS (ADDRESS 0790-0857)

CS TELCO 3 SUBSCRIBER OPENING/CLOSING ID NUMBERS

AREA 1	AREA 2	AREA 3	AREA 4
ADDRESS 0790-0793 (DIGITS 1-4)			
0790 0791 0792 0793	0794 0795 0796 0797	0798 0799 0800 0801	0802 0803 0804 0805
ADDRESS 0806-0809 (DIGITS 1-4)	ADDRESS 0810-0813 (DIGITS 1-4)	ADDRESS 0814-0817 (DIGITS 1-4)	ADDRESS 0818-0821 (DIGITS 1-4)
0806 0807 0808 0809	0810 0811 0812 0813	0814 0815 0816 0817	0818 0819 0820 0821

CS TELCO 3 SUBSCRIBER EVENT ID NUMBERS

AREA 1	AREA 2	AREA 3	AREA 4	
ADDRESS 0822-0825 (DIGITS 1-4)				
0822 0823 0824 0825	0826 0827 0828 0829	0830 0831 0832 0833	0834 0835 0836 0837	
ADDRESS 0838-0841 (DIGITS 1-4)	ADDRESS 0842-0845 (DIGITS 1-4)	ADDRESS 0846-0849 (DIGITS 1-4)	ADDRESS 0850-0853 (DIGITS 1-4)	SYSTEM ADDRESS 0854-0857 (DIGITS 1-4)
0838 0839 0840 0841	0842 0843 0844 0845	0846 0847 0848 0849	0850 0851 0852 0853	0854 0855 0856 0857

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

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

1. Enter 3 or 4 digits (depending on the CS receiver format) for each subscriber number from left to right.

NOTE: Leave trailing boxes blank (•).

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

CS REPORTING CODES (ADDRESS 0859-0883)

ALARM/TROUBLE REPORTING CODES	ADDRESS 0859-0862		
	LEFT	ADDR	RIGHT
Cancel	blank (•)	0859	
Alarm Restore	blank (•)	0860	
Trouble	blank (•)	0861	
Trouble Restore	blank (•)	0862	

[Default = blank (•) blank (•) from address 0859-0883]

OPENING/CLOSING REPORTING CODES	ADDRESS 0864-0883	
		ADDR
Closing	blank (•)	0864
Conditional Closing	blank (•)	0865
Opening	blank (•)	0866
Opening after Alarm	blank (•)	0867
Fail to Open		0868
Fail to Close		0869
Telemetry Trouble		0882
Telemetry Fail		0883

CS SYSTEM REPORTING CODES:

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

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

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

NOTE: A is not permitted.

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

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

4. Press or to save.

CS REPORTING CODES (ADDRESS 0870-0904)



SYSTEM REPORTING CODES	ADDRESS 0870-0880		
	LEFT	ADDR	RIGHT
Test Timer		0870	
Alarm Supervisory		0871	
Bus Failure		0872	
Memory Failure		0873	
Low Battery		0874	
AC Failure		0875	
EZM Tamper		0876	
Sensor Watch		0877	
RESERVED	blank (*)	0878	blank (*)
RESERVED	blank (*)	0879	blank (*)
Telco Line Failure		0880	

SYSTEM REPORTING CODES	ADDRESS 0890-0897		
	LEFT	ADDR	RIGHT
Digital Dialer Test		0890	
GuardTour Fail		0891	blank (*)
RESERVED		0892	blank (*)
Service Message		0893	
Program Change		0894	
RF Receiver Trouble		0895	
RF Tamper		0896	
RF Trouble		0897	

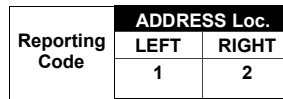
[Default = blank (*) blank (*) from address 0870-0904]

KEYPAD REPORTING CODES	ADDRESS 0900-0904		
	LEFT	ADDR	RIGHT
Ambush		0900	
Panic		0901	
Fire		0902	
Auxiliary		0903	
Tamper		0904	

CS SYSTEM REPORTING CODES:

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

CAUTION: For all 2-Digit Reporting Formats (see CS Receiver Format Options), use the following:



2nd Digit of Reporting Code

1st Digit of Reporting Code

Example: The 2-digit reporting code as shown is "21".

CS AREA & SYSTEM REPORTING OPTIONS (ADDRESS 1024-1027)

CS Area Reporting Options	ADDRESS	AREAS 1 → 8							
		A1	A2	A3	A4	A5	A6	A7	A8
		1	2	3	4	5	6	7	8
DISABLE OPENING REPORTS	1024								
DISABLE CLOSING REPORTS	1025								

1027	CS System Report Options	
Default		Option
OFF	1	Backup Report on Telco 2
OFF	2	Touch-tone Dialing Only *
ON	3	Touch-tone Dialing w/Rotary Backup *
OFF	4	Transmit "402" Opening/Closing Code
OFF	5	Cancel Next Test Timer on any Report
OFF	6	Disable Wait for Silence
OFF	7	Disable Wait for Handshake
OFF	8	Handshake for Local Telemetry

CS AREA & SYSTEM REPORTING OPTIONS:

1. Select the desired option entering the option number (1-8) for each digit.
2. Enter corresponding option number in address location.

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

3. Press  or  to save.

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



CS ZONE REPORTING CODES (ADDRESS 0910-1005)

ADDRESS 0910-0917							
ZONES REPORT CODE (CONTROL PANEL)							
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8
0910	0911	0912	0913	0914	0915	0916	0917

ADDRESS 0918-0921			
ZONES REPORT CODE (GROUP 1)			
ZONE 9	ZONE 10	ZONE 11	ZONE 12
0918	0919	0920	0921

ADDRESS 0922-0925			
ZONES REPORT CODE (GROUP 2)			
ZONE 13	ZONE 14	ZONE 15	ZONE 16
0922	0923	0924	0925

ADDRESS 0926-0929			
ZONES REPORT CODE (GROUP 3)			
ZONE 17	ZONE 18	ZONE 19	ZONE 20
0926	0927	0928	0929

ADDRESS 0930-0933			
ZONES REPORT CODE (GROUP 4)			
ZONE 21	ZONE 22	ZONE 23	ZONE 24
0930	0931	0932	0933

ADDRESS 0934-0937			
ZONES REPORT CODE (GROUP 5)			
ZONE 25	ZONE 26	ZONE 27	ZONE 28
0934	0935	0936	0937

ADDRESS 0938-0941			
ZONES REPORT CODE (GROUP 6)			
ZONE 29	ZONE 30	ZONE 31	ZONE 32
0938	0939	0940	0941

ADDRESS 0942-0945			
ZONES REPORT CODE (GROUP 7)			
ZONE 33	ZONE 34	ZONE 35	ZONE 36
0942	0943	0944	0945

ADDRESS 0946-0949			
ZONES REPORT CODE (GROUP 8)			
ZONE 37	ZONE 38	ZONE 39	ZONE 40
0946	0947	0948	0949

ADDRESS 0950-0953			
ZONES REPORT CODE (GROUP 9)			
ZONE 41	ZONE 42	ZONE 43	ZONE 44
0950	0951	0952	0953

ADDRESS 0954-0957			
ZONES REPORT CODE (GROUP 10)			
ZONE 45	ZONE 46	ZONE 47	ZONE 48
0954	0955	0956	0957

ADDRESS 0958-0961			
ZONES REPORT CODE (GROUP 11)			
ZONE 49	ZONE 50	ZONE 51	ZONE 52
0958	0959	0960	0961

ADDRESS 0962-0965			
ZONES REPORT CODE (GROUP 12)			
ZONE 53	ZONE 54	ZONE 55	ZONE 56
0962	0963	0964	0965

ADDRESS 0966-0969			
ZONES REPORT CODE (GROUP 13)			
ZONE 57	ZONE 58	ZONE 59	ZONE 60
0966	0967	0968	0969

ADDRESS 0970-0973			
ZONES REPORT CODE (GROUP 14)			
ZONE 61	ZONE 62	ZONE 63	ZONE 64
0970	0971	0972	0973

ADDRESS 0974-0977			
ZONES REPORT CODE (GROUP 15)			
ZONE 65	ZONE 66	ZONE 67	ZONE 68
0974	0975	0976	0977

ADDRESS 0978-0981			
ZONES REPORT CODE (GROUP 16)			
ZONE 69	ZONE 70	ZONE 71	ZONE 72
0978	0979	0980	0981

ADDRESS 0982-0985			
ZONES REPORT CODE (GROUP 17)			
ZONE 73	ZONE 74	ZONE 75	ZONE 76
0982	0983	0984	0985

ADDRESS 0986-0989			
ZONES REPORT CODE (GROUP 18)			
ZONE 77	ZONE 78	ZONE 79	ZONE 80
0986	0987	0988	0989

ADDRESS 0990-0993			
ZONES REPORT CODE (GROUP 19)			
ZONE 81	ZONE 82	ZONE 83	ZONE 84
0990	0991	0992	0993

ADDRESS 0994-0997			
ZONES REPORT CODE (GROUP 20)			
ZONE 85	ZONE 86	ZONE 87	ZONE 88
0994	0995	0996	0997

ADDRESS 0998-1001			
ZONES REPORT CODE (GROUP 21)			
ZONE 89	ZONE 90	ZONE 91	ZONE 92
0998	0999	1000	1001

ADDRESS 1002-1005			
ZONES REPORT CODE (GROUP 22)			
ZONE 93	ZONE 94	ZONE 95	ZONE 96
1002	1003	1004	1005

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

ZONE REPORT CODE OPTIONS DATA ENTRIES

NOTE: Zones 1-8 are included in the control panel and Zones 9-96 are EZM Zones. See Address 2555-2576 to enable "EZM Zone Groups".

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

PULSE EVENT CODE will be the first digit of the 2 digit reporting code. The second digit will be the second digit of the reporting zone. For example, for zone 9 (address 0918), if the right digit is "3", then the reporting code is "39". With another example, for zone 15 (address 0924), if the right digit is "4", then the reporting code is "45".

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

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

2. Press or to save.

CS USER REPORTING CODES (ADDRESS 1030-1080)

Enable Users to Report	ADDR	USERS 1 → 8								ADDR	USERS 9 → 16							
		U1	U2	U3	U4	U5	U6	U7	U8		U9	U10	U11	U12	U13	U14	U15	U16
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1030									1031								
User Closing Telco 1	1043									1044								
User Opening Telco 3	1056									1057								
User Closing Telco 3	1069									1070								

Enable Users to Report	ADDR	USERS 17 → 24								ADDR	USERS 25 → 32							
		U17	U18	U19	U20	U21	U22	U23	U24		U25	U26	U27	U28	U29	U30	U31	U32
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1032									1033								
User Closing Telco 1	1045									1046								
User Opening Telco 3	1058									1059								
User Closing Telco 3	1071									1072								

Enable Users to Report	ADDR	USERS 33 → 40								ADDR	USERS 41 → 48							
		U33	U34	U35	U36	U37	U38	U39	U40		U41	U42	U43	U44	U45	U46	U47	U48
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1034									1035								
User Closing Telco 1	1047									1048								
User Opening Telco 3	1060									1061								
User Closing Telco 3	1073									1074								

Enable Users to Report	ADDR	USERS 49 → 56								ADDR	USERS 57 → 64							
		U49	U50	U51	U52	U52	U54	U55	U56		U57	U58	U59	U60	U61	U62	U63	U64
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1036									1037								
User Closing Telco 1	1049									1050								
User Opening Telco 3	1062									1063								
User Closing Telco 3	1075									1076								

Enable Users to Report	ADDR	USERS 65 → 72								ADDR	USERS 73 → 80							
		U65	U66	U67	U68	U68	U70	U71	U72		U73	U74	U75	U76	U77	U78	U79	U80
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1038									1039								
User Closing Telco 1	1051									1052								
User Opening Telco 3	1064									1065								
User Closing Telco 3	1077									1078								

Enable Users to Report	ADDR	USERS 81 → 88								ADDR	USERS 89 → 96							
		U81	U82	U83	U84	U85	U86	U87	U88		U89	U90	U91	U92	U93	U94	U95	U96
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1040									1041								
User Closing Telco 1	1053									1054								
User Opening Telco 3	1066									1067								
User Closing Telco 3	1079									1080								

NOTE: These opening events will report as the user number shown. Also, Keyfobs 1-16 (see Easy Menu Program Driven Mode) will report as Users 180-195, respectively.

CS USER REPORTING CODES



GLOBAL SYSTEM TROUBLE REPORTING OPTIONS (ADDRESS 1082-1116)

GLOBAL SYSTEM TROUBLE REPORTING OPTIONS

SYSTEM RESPONSE ACTIVATED BY GLOBAL EVENT/TROUBLE	ADDR	GLOBAL SYSTEM EVENT/TROUBLE							
		TEST TIMER	ALARM SUPERV.	COMM. BUS 1	MEMORY FAILURE	LOW BATTERY	AC FAIL	EZM TAMPER	SENSOR WATCH
		1	2	3	4	5	6	7	8
Burglary Alarm Output	1082								
Pulsed Burg. Output	1083								
Fire Output (Lug E9)	1084								
Reset Relay	1085								
Auxiliary Relay	1086								
Report Event Telco 1	1087								
Report Restore Telco 1	1088								
Report Event Telco 3	1091								
Report Restore Telco 3	1092								

[Default = blank (*) from address 1082-1092].

SYSTEM RESPONSE ACTIVATED BY GLOBAL EVENT/TROUBLE	ADDR	GLOBAL SYSTEM EVENT/TROUBLE							
		TELCO FAIL	RSRVD.	Telemetry Trouble	Telemetry Failure	RSRVD.	RSRVD.	RSRVD.	RSRVD.
		1	2	3	4	5	6	7	8
Burglary Alarm Output	1094								
Pulsed Burg. Output	1095								
Fire Output (Lug E9)	1096								
Reset Relay	1097								
Auxiliary Relay	1098								
Report Event Telco 1	1099								
Report Restore Telco 1	1100								
Report Event Telco 3	1103								
Report Restore Telco 3	1104								

[Default = blank (*) from address 1094-1104] * NOTE: Keypad Aux. is not to be selected for UL Installations.

SYSTEM RESPONSE ACTIVATED BY GLOBAL EVENT/TROUBLE	ADDR	GLOBAL SYSTEM EVENT/TROUBLE							
		Digital Dialer Test	GUARD TOUR FAIL	RSRVD.	SERVICE MESSAGE	PROGRAM CHANGE	RF RCVR. TROUBLE	RF TAMPER	RF TROUBLE
		1	2	3	4	5	6	7	8
Burglary Alarm Output	1106								
Pulsed Burg. Output	1107								
Fire Output (Lug E9)	1108								
Reset Relay	1109								
Auxiliary Relay	1110								
Report Event Telco 1	1111								
Report Restore Telco 1	1112								
Report Event Telco 3	1115								
Report Restore Telco 3	1116								

[Default = blank (*) blank (*) from address 1106-1116] * NOTE: Keypad Aux. is not to be selected for UL Installations.

1. Select the desired option entering the option number (1-8) for each digit.
2. Enter corresponding option number in address location.

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

AREA SYSTEM TROUBLE REPORTING OPTIONS (ADDRESS 1120-1157)

SYSTEM RESPONSE ACTIVATED BY AREA 1 EVENT/TROUBLE	ADDR	AREA 1 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	RSRVD.
		1	2	3	4	5	6	7	8
Pulsed Burg. Output	1120			Default ON					
Burglary Output	1121		Default ON		Default ON				
Fire Output (Lug E9)	1122								
Reset Relay	1123								
Auxiliary Relay	1124								
Report Alarm Telco 1	1125								
Report Alarm Telco 3	1127								

[Defaults as noted from address 1120-1127]

SYSTEM RESPONSE ACTIVATED BY AREA 2 EVENT/TROUBLE	ADDR	AREA 2 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	RSRVD.
		1	2	3	4	5	6	7	8
Pulsed Burg. Output	1130			Default ON					
Burglary Output	1131		Default ON		Default ON				
Fire Output (Lug E9)	1132								
Reset Relay	1133								
Auxiliary Relay	1134								
Report Alarm Telco 1	1135		Default ON	Default ON	Default ON				
Report Alarm Telco 3	1137								

[Defaults as noted from address 1130-1137]

SYSTEM RESPONSE ACTIVATED BY AREA 3 EVENT/TROUBLE	ADDR	AREA 3 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	RSRVD.
		1	2	3	4	5	6	7	8
Pulsed Burg. Output	1140								
Burglary Output	1141								
Fire Output (Lug E9)	1142								
Reset Relay	1143								
Auxiliary Relay	1144								
Report Alarm Telco 1	1145								
Report Alarm Telco 3	1147								

[Default = blank (*) blank (*) from address 1140-1147]

SYSTEM RESPONSE ACTIVATED BY AREA 4 EVENT/TROUBLE	ADDR	AREA 4 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	RSRVD.
		1	2	3	4	5	6	7	8
Pulsed Burg. Output	1150								
Burglary Output	1151								
Fire Output (Lug E9)	1152								
Reset Relay	1153								
Auxiliary Relay	1154								
Report Alarm Telco 1	1155								
Report Alarm Telco 3	1157								

[Default = blank (*) blank (*) from address 1150-1157]

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

 2. Enter corresponding option number in address location.

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

 3. Press  or  to save.

AREA SYSTEM TROUBLE REPORTING OPTIONS (ADDRESS 1160-1197)

AREA SYSTEM TROUBLE REPORTING OPTIONS

SYSTEM RESPONSE ACTIVATED BY AREA 5 EVENT/TROUBLE	ADDR	AREA 5 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	RSRVD.
		1	2	3	4	5	6	7	8
Pulsed Burg. Output	1160								
Burglary Output	1161								
Fire Output (Lug E9)	1162								
Reset Relay	1163								
Auxiliary Relay	1164								
Report Alarm Telco 1	1165								
Report Alarm Telco 3	1167								

[Default = blank (*) blank (*) from address 1160-1167]

SYSTEM RESPONSE ACTIVATED BY AREA 6 EVENT/TROUBLE	ADDR	AREA 6 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	RSRVD.
		1	2	3	4	5	6	7	8
Pulsed Burg. Output	1170								
Burglary Output	1171								
Fire Output (Lug E9)	1172								
Reset Relay	1173								
Auxiliary Relay	1174								
Report Alarm Telco 1	1175								
Report Alarm Telco 3	1177								

[Default = blank (*) blank (*) from address 1170-1177]

SYSTEM RESPONSE ACTIVATED BY AREA 7 EVENT/TROUBLE	ADDR	AREA 7 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	RSRVD.
		1	2	3	4	5	6	7	8
Pulsed Burg. Output	1180								
Burglary Output	1181								
Fire Output (Lug E9)	1182								
Reset Relay	1183								
Auxiliary Relay	1184								
Report Alarm Telco 1	1185								
Report Alarm Telco 3	1187								

[Default = blank (*) blank (*) from address 1180-1187]

SYSTEM RESPONSE ACTIVATED BY AREA 8 EVENT/TROUBLE	ADDR	AREA 8 SYSTEM EVENT/TROUBLE							
		AMBUSH	KEYPAD PANIC	KEYPAD FIRE	KEYPAD AUX.	KEYPAD TAMPER	FAIL TO OPEN	FAIL TO CLOSE	RSRVD.
		1	2	3	4	5	6	7	8
Pulsed Burg. Output	1190								
Burglary Output	1191								
Fire Output (Lug E9)	1192								
Reset Relay	1193								
Auxiliary Relay	1194								
Report Alarm Telco 1	1195								
Report Alarm Telco 3	1197								

[Default = blank (*) blank (*) from address 1180-1187]

1. Select the desired option entering the option number (1-8) for each digit.
2. Enter corresponding option number in address location.

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

3. Press or to save.

ZONE OPTIONS / ZONES 1-16 (ADDRESS 1200-1386)

ZONE OPTIONS	ADDR	ZONES 1 → 8								ADDR	ZONES 9 → 16							
		Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8		Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
50ms Loop Response (A)	1200																	
20ms Loop Response (A)	1201																	
† Priority	1202									1302								
† Priority with Bypass	1203									1303								
† Auto-Bypass	1204									1304								
† Selective Bypass	1205									1305								
† Keyswitch Arming	1206									1306								
† Auto-Bypass Re-entry	1207									1307								
† Pre-Alarm Warning	1208									1308								
† Never Arm	1209									1309								
† 24-Hour Zone	1210									1310								
† Burg. Alarm Output	1211									1311								
II Pulsed Alarm Output	1212									1312								
II Fire Output (Lug E9)	1213									1313								
Reset Relay	1214									1314								
Auxiliary Relay	1215									1315								
Entry/Exit 1	1216									1316								
Entry/Exit 2	1217									1317								
† Exit/Entry Follower	1218									1318								
† ⌘ Auto Reset	1219									1319								
† ⌘ Swinger Shutdown	1220									1320								
Chime	1221									1321								
Abort Delay	1222									1322								
Power-up Delay	1223									1323								
Day Zone Open	1224									1324								
Day Zone Short	1225									1325								
Alarm on Day Zone	1226									1326								
RPT Alarm Tel 1	1227									1327								
RPT Alarm Restore Tel 1	1228									1328								
RPT Trouble Tel 1	1229									1329								
RPT Trouble Restore Tel 1	1230									1330								
RPT Alarm Tel 3	1235									1335								
RPT Alarm Restore Tel 3	1236									1336								
RPT Trouble Tel 3	1237									1337								
RPT Trouble Restore Tel 3	1238									1338								
No EOL Resistor	1239									1339								
Sensor Watch	1240									1340								
Trouble on Open	1241									1341								
Trouble on Short	1242									1342								
Trouble on Night Open	1243									1343								
† Zone Area 1	1244									1344								
† Zone Area 2	1245									1345								
† Zone Area 3	1246									1346								
† Zone Area 4	1247									1347								
† Zone Area 5	1248									1348								
† Zone Area 6	1249									1349								
† Zone Area 7	1250									1350								
† Zone Area 8	1251									1351								
2-Wire Smoke Detectors (B)	1252																	
Guard Tour Bypass	1253									1353								
Zone ANDing Group 1	1254									1354								
Zone ANDing Group 2	1255									1355								
Zone ANDing Group 3	1256									1356								
Zone ANDing Group 4	1257									1357								
Zone ANDing Group 5	1258									1358								
Zone ANDing Group 6	1259									1359								
Zone ANDing Group 7	1260									1360								
Zone ANDing Group 8	1261									1361								
† Interior #1 Bypass	1262									1362								
† Interior #2 Bypass	1263									1363								
† Keypad Sounder on Alarm	1264									1364								
† Fire (C)	1275									1375								
† Fire Alarm Verification (C)	1276									1376								
† Interior (STAY) Bypass	1284									1384								
† Chime 2	1286									1386								

† When the Easy Program Menu is used, these features are enabled by default (for new panels or after a Cold Start (address 4093)). Zone Area 1 is enabled for the first 8 zones only, by default.

† Do not program if "K Series" keypads (with "STAY" and "AWAY" buttons) are used in the system.

See Zone Options on Page 37.

⌘ Disable Auto-Reset on non-fire zones for SIA CP-01 installations.

II In UL installations, all Fire Zones must also be programmed for "Pulse Burg Output Cadence" (Address 2422, press 1 (bit zero)).

ZONE OPTIONS / ZONES 1-16



ZONE OPTIONS / ZONES 17-32 (ADDRESS 1402-1586)

ZONE OPTIONS / ZONES 17-32

ZONE OPTIONS	ADDR	ZONES 17 → 24								ADDR	ZONES 25 → 32							
		Z17	Z18	Z19	Z20	Z21	Z22	Z23	Z24		Z25	Z26	Z27	Z28	Z29	Z30	Z31	Z32
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
☛ Priority	1402									1502								
☛ Priority with Bypass	1403									1503								
☛ Auto-Bypass	1404									1504								
☛ Selective Bypass	1405									1505								
☛ Keyswitch Arming	1406									1506								
☛ Auto-Bypass Re-entry	1407									1507								
☛ Pre-Alarm Warning	1408									1508								
☛ Never Arm	1409									1509								
☛ 24-Hour Zone	1410									1510								
☛ Burg. Alarm Output	1411									1511								
☛ Pulsed Alarm Output	1412									1512								
☛ Fire Output (Lug E9)	1413									1513								
☛ Reset Relay	1414									1514								
☛ Auxiliary Relay	1415									1515								
☛ Entry/Exit 1	1416									1516								
☛ Entry/Exit 2	1417									1517								
☛ Exit/Entry Follower	1418									1518								
☛ ☘ Auto Reset	1419									1519								
☛ ☘ Swinger Shutdown	1420									1520								
☛ Chime	1421									1521								
☛ Abort Delay	1422									1522								
☛ Power-up Delay	1423									1523								
☛ Day Zone Open	1424									1524								
☛ Day Zone Short	1425									1525								
☛ Alarm on Day Zone	1426									1526								
☛ RPT Alarm Tel 1	1427									1527								
☛ RPT Alarm Restore Tel 1	1428									1528								
☛ RPT Trouble Tel 1	1429									1529								
☛ RPT Trouble Restore Tel 1	1430									1530								
☛ RPT Alarm Tel 3	1435									1535								
☛ RPT Alarm Restore Tel 3	1436									1536								
☛ RPT Trouble Tel 3	1437									1537								
☛ RPT Trouble Restore Tel 3	1438									1538								
☛ No EOL Resistor	1439									1539								
☛ Sensor Watch	1440									1540								
☛ Trouble on Open	1441									1541								
☛ Trouble on Short	1442									1542								
☛ Trouble on Night Open	1443									1543								
☛ Zone Area 1	1444									1544								
☛ Zone Area 2	1445									1545								
☛ Zone Area 3	1446									1546								
☛ Zone Area 4	1447									1547								
☛ Zone Area 5	1448									1548								
☛ Zone Area 6	1449									1549								
☛ Zone Area 7	1450									1550								
☛ Zone Area 8	1451									1551								
☛ Guard Tour Bypass	1453									1553								
☛ Zone ANDing Group 1	1454									1554								
☛ Zone ANDing Group 2	1455									1555								
☛ Zone ANDing Group 3	1456									1556								
☛ Zone ANDing Group 4	1457									1557								
☛ Zone ANDing Group 5	1458									1558								
☛ Zone ANDing Group 6	1459									1559								
☛ Zone ANDing Group 7	1460									1560								
☛ Zone ANDing Group 8	1461									1561								
☛ Interior #1 Bypass	1462									1562								
☛ Interior #2 Bypass	1463									1563								
☛ Keypad Sounder on Alarm	1464									1564								
☛ Fire (C)	1475									1575								
☛ Fire Alarm Verification (C)	1476									1576								
☛ Interior (STAY) Bypass	1484									1584								
☛ Chime 2	1486									1586								

☛ When the Easy Program Menu is used, these features are enabled by default (for new panels or after a Cold Start (address 4093)).

☛ Do not program if "K Series" keypads (with "STAY" and "AWAY" buttons) are used in the system.

☘ Disable Auto-Reset on non-fire zones for SIA CP-01 installations.

☛ In UL installations, all Fire Zones must also be programmed for "Pulse Burg Output Cadence" (Address 2422, press 1 (bit zero)).

See Zone Options on Page 37.

ZONE OPTIONS / ZONES 33-48 (ADDRESS 1602-1786)

	ZONE OPTIONS	ADDR	ZONES 33 → 40								ADDR	ZONES 41 → 48							
			Z33	Z34	Z35	Z36	Z37	Z38	Z39	Z40		Z41	Z42	Z43	Z44	Z45	Z46	Z47	Z48
			1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
⊕	Priority	1602									1702								
	Priority with Bypass	1603									1703								
	Auto-Bypass	1604									1704								
⊕	Selective Bypass	1605									1705								
	Keyswitch Arming	1606									1706								
	Auto-Bypass Re-entry	1607									1707								
	Pre-Alarm Warning	1608									1708								
	Never Arm	1609									1709								
	24-Hour Zone	1610									1710								
⊕	Burg. Alarm Output	1611									1711								
II	Pulsed Alarm Output	1612									1712								
	Fire Output (Lug E9)	1613									1713								
	Reset Relay	1614									1714								
	Auxiliary Relay	1615									1715								
	Entry/Exit 1	1616									1716								
	Entry/Exit 2	1617									1717								
	Exit/Entry Follower	1618									1718								
⊕ ⌘	Auto Reset	1619									1719								
⊕ ⌘	Swinger Shutdown	1620									1720								
	Chime	1621									1721								
	Abort Delay	1622									1722								
	Power-up Delay	1623									1723								
	Day Zone Open	1624									1724								
	Day Zone Short	1625									1725								
	Alarm on Day Zone	1626									1726								
	RPT Alarm Tel 1	1627									1727								
	RPT Alarm Restore Tel 1	1628									1728								
	RPT Trouble Tel 1	1629									1729								
	RPT Trouble Restore Tel 1	1630									1730								
	RPT Alarm Tel 3	1635									1735								
	RPT Alarm Restore Tel 3	1636									1736								
	RPT Trouble Tel 3	1637									1737								
	RPT Trouble Restore Tel 3	1638									1738								
	No EOL Resistor	1639									1739								
	Sensor Watch	1640									1740								
	Trouble on Open	1641									1741								
	Trouble on Short	1642									1742								
	Trouble on Night Open	1643									1743								
	Zone Area 1	1644									1744								
	Zone Area 2	1645									1745								
	Zone Area 3	1646									1746								
	Zone Area 4	1647									1747								
	Zone Area 5	1648									1748								
	Zone Area 6	1649									1749								
	Zone Area 7	1650									1750								
	Zone Area 8	1651									1751								
	Guard Tour Bypass	1653									1753								
	Zone ANDing Group 1	1654									1754								
	Zone ANDing Group 2	1655									1755								
	Zone ANDing Group 3	1656									1756								
	Zone ANDing Group 4	1657									1757								
	Zone ANDing Group 5	1658									1758								
	Zone ANDing Group 6	1659									1759								
	Zone ANDing Group 7	1660									1760								
	Zone ANDing Group 8	1661									1761								
	Interior #1 Bypass	1662									1762								
⊕	Interior #2 Bypass	1663									1763								
	Keypad Sounder on Alarm	1664									1764								
	Fire (C)	1675									1775								
	Fire Alarm Verification (C)	1676									1776								
	Interior (STAY) Bypass	1684									1784								
	Chime 2	1686									1786								

⊕ When the Easy Program Menu is used, these features are enabled by default (for new panels or after a Cold Start (address 4093)).

⊕ Do not program if "K Series" keypads (with "[STAY]" and "[AWAY]" buttons) are used in the system.

⌘ Disable Auto-Reset on non-fire zones for SIA CP-01 installations.

See Zone Options on Page 37.

ZONE OPTIONS / ZONES 33-48



ZONE OPTIONS / ZONES 49-64 (ADDRESS 1802-1986)

ZONE OPTIONS / ZONES 49-64

ZONE OPTIONS	ADDR	ZONES 49 → 56								ADDR	ZONES 57 → 64							
		Z49	Z50	Z51	Z52	Z53	Z54	Z55	Z56		Z57	Z58	Z59	Z60	Z61	Z62	Z63	Z64
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
† Priority	1802									1902								
† Priority with Bypass	1803									1903								
† Auto-Bypass	1804									1904								
† Selective Bypass	1805									1905								
† Keyswitch Arming	1806									1906								
† Auto-Bypass Re-entry	1807									1907								
† Pre-Alarm Warning	1808									1908								
† Never Arm	1809									1909								
† 24-Hour Zone	1810									1910								
† Burg. Alarm Output	1811									1911								
† Pulsed Alarm Output	1812									1912								
† Fire Output (Lug E9)	1813									1913								
† Reset Relay	1814									1914								
† Auxiliary Relay	1815									1915								
† Entry/Exit 1	1816									1916								
† Entry/Exit 2	1817									1917								
† Exit/Entry Follower	1818									1918								
† ⌘ Auto Reset	1819									1919								
† ⌘ Swinger Shutdown	1820									1920								
† Chime	1821									1921								
† Abort Delay	1822									1922								
† Power-up Delay	1823									1923								
† Day Zone Open	1824									1924								
† Day Zone Short	1825									1925								
† Alarm on Day Zone	1826									1926								
† RPT Alarm Tel 1	1827									1927								
† RPT Alarm Restore Tel 1	1828									1928								
† RPT Trouble Tel 1	1829									1929								
† RPT Trouble Restore Tel 1	1830									1930								
† RPT Alarm Tel 3	1835									1935								
† RPT Alarm Restore Tel 3	1836									1936								
† RPT Trouble Tel 3	1837									1937								
† RPT Trouble Restore Tel 3	1838									1938								
† No EOL Resistor	1839									1939								
† Sensor Watch	1840									1940								
† Trouble on Open	1841									1941								
† Trouble on Short	1842									1942								
† Trouble on Night Open	1843									1943								
† Zone Area 1	1844									1944								
† Zone Area 2	1845									1945								
† Zone Area 3	1846									1946								
† Zone Area 4	1847									1947								
† Zone Area 5	1848									1948								
† Zone Area 6	1849									1949								
† Zone Area 7	1850									1950								
† Zone Area 8	1851									1951								
† Guard Tour Bypass	1853									1953								
† Zone ANDing Group 1	1854									1954								
† Zone ANDing Group 2	1855									1955								
† Zone ANDing Group 3	1856									1956								
† Zone ANDing Group 4	1857									1957								
† Zone ANDing Group 5	1858									1958								
† Zone ANDing Group 6	1859									1959								
† Zone ANDing Group 7	1860									1960								
† Zone ANDing Group 8	1861									1961								
† Interior #1 Bypass	1862									1962								
† Interior #2 Bypass	1863									1963								
† Keypad Sounder on Alarm	1864									1964								
† Fire (C)	1875									1975								
† Fire Alarm Verification (C)	1876									1976								
† Interior (STAY) Bypass	1884									1984								
† Chime 2	1886									1986								

- † When the Easy Program Menu is used, these features are enabled by default (for new panels or after a Cold Start (address 4093)).
- ⌘ Do not program if "K Series" keypads (with "[STAY]" and "[AWAY]" buttons) are used in the system.
- ⌘ Disable Auto-Reset on non-fire zones for SIA CP-01 installations.

See Zone Options on Page 37.

ZONE OPTIONS / ZONES 65-80 (ADDRESS 2002-2186)

ZONE OPTIONS	ADDR	ZONES 65 → 72								ADDR	ZONES 73 → 80							
		Z65	Z66	Z67	Z68	Z69	Z70	Z71	Z72		Z73	Z74	Z75	Z76	Z77	Z78	Z79	Z80
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
† Priority	2002									2102								
† Priority with Bypass	2003									2103								
† Auto-Bypass	2004									2104								
† Selective Bypass	2005									2105								
† Keyswitch Arming	2006									2106								
† Auto-Bypass Re-entry	2007									2107								
† Pre-Alarm Warning	2008									2108								
† Never Arm	2009									2109								
† 24-Hour Zone	2010									2110								
† Burg. Alarm Output	2011									2111								
II Pulsed Alarm Output	2012									2112								
† Fire Output (Lug E9)	2013									2113								
† Reset Relay	2014									2114								
† Auxiliary Relay	2015									2115								
† Entry/Exit 1	2016									2116								
† Entry/Exit 2	2017									2117								
† Exit/Entry Follower	2018									2118								
† ⌘ Auto Reset	2019									2119								
† ⌘ Swinger Shutdown	2020									2120								
† Chime	2021									2121								
† Abort Delay	2022									2122								
† Power-up Delay	2023									2123								
† Day Zone Open	2024									2124								
† Day Zone Short	2025									2125								
† Alarm on Day Zone	2026									2126								
† RPT Alarm Tel 1	2027									2127								
† RPT Alarm Restore Tel 1	2028									2128								
† RPT Trouble Tel 1	2029									2129								
† RPT Trouble Restore Tel 1	2030									2130								
† RPT Alarm Tel 3	2035									2135								
† RPT Alarm Restore Tel 3	2036									2136								
† RPT Trouble Tel 3	2037									2137								
† RPT Trouble Restore Tel 3	2038									2138								
† No EOL Resistor	2039									2139								
† Sensor Watch	2040									2140								
† Trouble on Open	2041									2141								
† Trouble on Short	2042									2142								
† Trouble on Night Open	2043									2143								
† Zone Area 1	2044									2144								
† Zone Area 2	2045									2145								
† Zone Area 3	2046									2146								
† Zone Area 4	2047									2147								
† Zone Area 5	2048									2148								
† Zone Area 6	2049									2149								
† Zone Area 7	2050									2150								
† Zone Area 8	2051									2151								
† Guard Tour Bypass	2053									2153								
† Zone ANDing Group 1	2054									2154								
† Zone ANDing Group 2	2055									2155								
† Zone ANDing Group 3	2056									2156								
† Zone ANDing Group 4	2057									2157								
† Zone ANDing Group 5	2058									2158								
† Zone ANDing Group 6	2059									2159								
† Zone ANDing Group 7	2060									2160								
† Zone ANDing Group 8	2061									2161								
† Interior #1 Bypass	2062									2162								
† Interior #2 Bypass	2063									2163								
† Keypad Sounder on Alarm	2064									2164								
† Fire (C)	2075									2175								
† Fire Alarm Verification (C)	2076									2176								
† Interior (STAY) Bypass	2084									2184								
† Chime 2	2086									2186								

- † When the Easy Program Menu is used, these features are enabled by default (for new panels or after a Cold Start (address 4093)).
- ‡ Do not program if "K Series" keypads (with "[STAY]" and "[AWAY]" buttons) are used in the system.
- ⌘ Disable Auto-Reset on non-fire zones for SIA CP-01 installations.

See Zone Options on Page 37.



ZONE OPTIONS / ZONES 81-96 (ADDRESS 2202-2386)

ZONE OPTIONS / ZONES 81-96

ZONE OPTIONS	ADDR	ZONES 81 → 88								ADDR	ZONES 89 → 96							
		Z81	Z82	Z83	Z84	Z85	Z86	Z87	Z88		Z89	Z90	Z91	Z92	Z93	Z94	Z95	Z96
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
† Priority	2202									2302								
† Priority with Bypass	2203									2303								
† Auto-Bypass	2204									2304								
† Selective Bypass	2205									2305								
† Keyswitch Arming	2206									2306								
† Auto-Bypass Re-entry	2207									2307								
† Pre-Alarm Warning	2208									2308								
† Never Arm	2209									2309								
† 24-Hour Zone	2210									2310								
† Burg. Alarm Output	2211									2311								
† Pulsed Alarm Output	2212									2312								
† Fire Output (Lug E9)	2213									2313								
† Reset Relay	2214									2314								
† Auxiliary Relay	2215									2315								
† Entry/Exit 1	2216									2316								
† Entry/Exit 2	2217									2317								
† Exit/Entry Follower	2218									2318								
† ⌘ Auto Reset	2219									2319								
† ⌘ Swinger Shutdown	2220									2320								
† Chime	2221									2321								
† Abort Delay	2222									2322								
† Power-up Delay	2223									2323								
† Day Zone Open	2224									2324								
† Day Zone Short	2225									2325								
† Alarm on Day Zone	2226									2326								
† RPT Alarm Tel 1	2227									2327								
† RPT Alarm Restore Tel 1	2228									2328								
† RPT Trouble Tel 1	2229									2329								
† RPT Trouble Restore Tel 1	2230									2330								
† RPT Alarm Tel 3	2235									2335								
† RPT Alarm Restore Tel 3	2236									2336								
† RPT Trouble Tel 3	2237									2337								
† RPT Trouble Restore Tel 3	2238									2338								
† No EOL Resistor	2239									2339								
† Sensor Watch	2240									2340								
† Trouble on Open	2241									2341								
† Trouble on Short	2242									2342								
† Trouble on Night Open	2243									2343								
† Zone Area 1	2244									2344								
† Zone Area 2	2245									2345								
† Zone Area 3	2246									2346								
† Zone Area 4	2247									2347								
† Zone Area 5	2248									2348								
† Zone Area 6	2249									2349								
† Zone Area 7	2250									2350								
† Zone Area 8	2251									2351								
† Guard Tour Bypass	2253									2353								
† Zone ANDing Group 1	2254									2354								
† Zone ANDing Group 2	2255									2355								
† Zone ANDing Group 3	2256									2356								
† Zone ANDing Group 4	2257									2357								
† Zone ANDing Group 5	2258									2358								
† Zone ANDing Group 6	2259									2359								
† Zone ANDing Group 7	2260									2360								
† Zone ANDing Group 8	2261									2361								
† Interior #1 Bypass	2262									2362								
† Interior #2 Bypass	2263									2363								
† Keypad Sounder on Alarm	2264									2364								
† Fire (C)	2275									2375								
† Fire Alarm Verification (C)	2276									2376								
† Interior (STAY) Bypass	2284									2384								
† Chime 2	2286									2386								

† When the Easy Program Menu is used, these features are enabled by default (for new panels or after a Cold Start (address 4093)).

⌘ Do not program if "K Series" keypads (with "[STAY]" and "[AWAY]" buttons) are used in the system.



⌘ Disable Auto-Reset on non-fire zones for SIA CP-01 installations.

See Zone Options on Page 37.

ZONE OPTIONS / ZONES 1-96 (ADDRESS 1200-2386)

ZONE OPTIONS: Select zone options for any zone.

1. Select the desired zone option by entering the option number (1-8) for each selected zone.
2. Enter corresponding option number in address location, in Binary (Bit) Format.

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

NOTE: See Direct Address Programming Example on page 15.

NOTES: (A) 50ms & 20 ms Loop Response only available for zones 1-8.

(B) 2-wire Smoke Detectors only available for zones 1-8. Refer to Installation Instructions (WI1093) for more details.
If 2-wire Smoke Detectors are selected, then Fire must also be selected.

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

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

- ✓ *Priority, Selective Bypass, Alarm Output, Auto Reset, Swinger Shutdown, Zone Area 1 and Zone Area 2* are enabled for the total number of zones entered in "AREA 1 # ZONES = 08" and "AREA 2 # ZONES = 00".
- ✓ *Alarm Telco 1* is enabled for the zones if [YES] is entered for "REPORT ALL ZONES TO CENTRAL ZONES? Y/N".
- ✓ *Entry/Exit 1* and *Chime* are enabled for zone numbers entered in "EXIT / ENTRY ZONES".
- ✓ *Exit/Entry Follower* and *Interior Bypass* are enabled for zone numbers entered in "INTERIOR ZONES".
- ✓ *Fire, Pulse Alarm Output and Fire Verification* is enabled for the zone numbers entered in "FIRE ZONES".
- ✓ 2-Wire Smoke Detector is enabled for zone numbers entered in "2 WIRE FIRE ZONES".

Note: See "Number of Zones & Keypads per Area" in Easy Menu Driven program Mode.

SYSTEM OPTIONS (ADDRESS 2415-2419)

2415 System Options - Disable Fire Reset		
Default		Option
OFF	1	Disable Fire Reset (Area 1)
OFF	2	Disable Fire Reset (Area 2)
OFF	3	Disable Fire Reset (Area 3)
OFF	4	Disable Fire Reset (Area 4)
OFF	5	Disable Fire Reset (Area 5)
OFF	6	Disable Fire Reset (Area 6)
OFF	7	Disable Fire Reset (Area 7)
OFF	8	Disable Fire Reset (Area 8)

2416 System Options - Enable Day Zone Watch		
Default		Option
OFF	1	Enable Day Zone Watch (Area 1)
OFF	2	Enable Day Zone Watch (Area 2)
OFF	3	Enable Day Zone Watch (Area 3)
OFF	4	Enable Day Zone Watch (Area 4)
OFF	5	Enable Day Zone Watch (Area 5)
OFF	6	Enable Day Zone Watch (Area 6)
OFF	7	Enable Day Zone Watch (Area 7)
OFF	8	Enable Day Zone Watch (Area 8)

2417 System Options		
Default		Option
OFF	1	Opening Report only after Alarm Report
OFF	2	Closing Report only on Cond. Closing (Auto-Byp.)
OFF	3	Include Sel./Grp. Bypass in Cond. Closing Status
OFF	4	Status Report (Auto-Byp. Zones on Clos.)
OFF	5	RESERVED
OFF	6	Lug E4 Armed Away Only
OFF	7	Disable Auto-Unbypass on Disarming
OFF	8	Enable All-Zone-in-Trouble Bypass



2418 System Options		
Default		Option
OFF	1	Auto Bell Test on Arming
ON	2	Auto Reset after Burg. Output Timeout
OFF	3	Suppress "Bypass" Icon when Armed
OFF	4	RESERVED
OFF	5	Access Control (Panel) on Aux. Output
OFF	6	Enable Burg. Output Warning on Entry
OFF	7	Enable Manager's Mode Outside Overview
OFF	8	Start Exit Delay after Ringback

2419 System Options		
Default		Option
OFF	1	Interior 1 Normally Bypassed*
OFF	2	Enable Exit-Delay Restart
OFF	3	Reset Day Zone with Arm/Disarm Only
OFF	4	Enable Local Alarm on First Zone "AND" Trip
OFF	5	Disable Keypad Function-Mode Download
OFF	6	Disable Callback Download
OFF	7	Disable Answering-Machine Download
OFF	8	Disable Auto-Reset on Day Zone

*Do not use on systems with "K Series " keypads.

SYSTEM OPTIONS:

1. Select the desired option entering the option number (1-8) for each digit.
2. Enter corresponding option number in address location.

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

SYSTEM OPTIONS (ADDRESS 2420-2422, 3874, 3905)

2420 System Options		
Default		Option
OFF	1	Disable System Trouble Audible (at Keypad) †
OFF	2	Chime on Lug E4
OFF	3	Disable Code required for Func. Mode Lvl. 1
OFF	4	Disable Code required for EZ Bypass
OFF	5	Disable Keypad Instant Button
OFF	6	Enable Telephone Line-Fault Test
OFF	7	Disable AC Fail Detection
OFF	8	Telco Fail only when Armed

† NOTE: Not for UL Installations.

** Default for this address contingent on EZ Menu selections.

2421 System Options		
Default		Option
OFF	1	Automatic Interior Bypass/Easy Exit
OFF	2	Veri-phone Zones trip Aux. Output
OFF	3	Veri-phone Zones Priority over Alarms
OFF	4	AuxOut Chirp on Keyfob Arm/Disarm**
OFF	5	Disable Auxout Clear on Disarm
OFF	6	2nd Call Answering Machine Override
OFF	7	Disable Zone Fault Scrolling (Auto Status)
OFF	8	Veri-phone Zones trip Fire Output

2422 System Options		
Default		Option
ON	1	Pulse Burg Output Cadence [§]
OFF	2	Wireless Smoke Low Battery Resound
OFF	3	Supervised Alarm Output
OFF	4	Enable Smoke Detector Dirty Trouble
OFF	5	Disable Area Entry Relays
OFF	6	Disable Exit/Entry Urgency Tone at Keypad
OFF	7	Select Bell Output on Keyfob Arming
OFF	8	Enable Burg. Output on Telco Fail only when Armed

§In Zone Options, Fire Zones, and only Fire Zones, must be programmed for pulse alarm output.



3874 System Options		
Default		Option
OFF	1	Enable GEM-PRINT
OFF	2	Enable Cancel Report to Telco 3
OFF	3	Wireless Trouble to Telco 1
OFF	4	Wireless Trouble to Telco 3
OFF	5	Enable Set Time/Date Message
OFF	6	RESERVED
ON	7	Enable Keypad Time/Date Display
	8	RESERVED

3905 System Options		
Default		Option
OFF	1	RESERVED
OFF	2	Enable Exit Delay Restart (SIA-FAR)**
OFF	3	Enable Bell on Exit Error**
OFF	4	Enable Report Exit Err/Recent Close**
OFF	5	Digital Dialer Rpt Enter/Exit Test Mode**
OFF	6	Enable CP-01 Limits**
OFF	7	Disable Call Waiting on First Attempt
OFF	8	Enable Ambush in User Assignment Code Type

** Default for this addresses contingent on EZ Menu selections.

SYSTEM OPTIONS:

1. Select the desired option entering the option number (1-8) for each digit.
2. Enter corresponding option number in address location.

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

ALARM/TROUBLE REPORTING CODES (ADDRESS 3880-3881)

ALARM/TROUBLE REPORTING CODES	ADDRESS 3880-3881	
Wireless Supervisory	3880	
Wireless Tamper	3881	
[Default = blank (*) from address 3880-3881]		

ALARM/TROUBLE 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 (*).

4. Press  or  to save.



SYSTEM OPTIONS (ADDRESS 3882-3901, 3903-3905 & 4084)

Telephone Dialing Prefix (Digits 1-20)	ADDRESS 3882-3901 (RIGHT DIGITS 1-20)																			
	3882	3883	3884	3885	3886	3887	3888	3889	3890	3891	3892	3893	3894	3895	3896	3897	3898	3899	3900	3901

Pager Recalls	ADDRESS 3903	
	LEFT	RIGHT

[Default = blank (•) blank (•)]

Pager Format: Maximum Pages per Session	ADDRESS 3904	
	LEFT	RIGHT

[Default = blank (•) blank (•)]

SYSTEM OPTIONS	LEFT DATA VALUES
RESERVED	1
RESERVED	2
RESERVED	4
Skip Automatic Dial Tone Detect	8

ADDRESS 4084	
LEFT DIGIT (SUM OF DATA VALUES)	RIGHT DIGIT (SUM OF DATA VALUES)
	blank (•)

[Default = blank (•) blank (•)]

Note: Right digit is RESERVED (not used). Enter data in left digit only.

SYSTEM OPTIONS

KEYPAD OPTIONS (ADDRESS 2425-2454)

Keypad 1 Type & Area Assignment	ADDRESS 2425	
	LEFT	RIGHT

[Default = blank (*) 1]

Keypad 2 Type & Area Assignment	ADDRESS 2426	
	LEFT	RIGHT

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

Keypad 3 Type & Area Assignment	ADDRESS 2427	
	LEFT	RIGHT

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

Keypad 4 Type & Area Assignment	ADDRESS 2428	
	LEFT	RIGHT

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

Keypad 5 Type & Area Assignment	ADDRESS 2429	
	LEFT	RIGHT

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

Keypad 6 Type & Area Assignment	ADDRESS 2430	
	LEFT	RIGHT

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

Keypad 7 Type & Area Assignment	ADDRESS 2431	
	LEFT	RIGHT

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

Keypad 8 Type & Area Assignment	ADDRESS 2432	
	LEFT	RIGHT

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

Keypad 9 Type & Area Assignment	ADDRESS 2433	
	LEFT	RIGHT

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

Keypad 10 Type & Area Assignment	ADDRESS 2434	
	LEFT	RIGHT

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

Keypad 11 Type & Area Assignment	ADDRESS 2435	
	LEFT	RIGHT

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

Keypad 12 Type & Area Assignment	ADDRESS 2436	
	LEFT	RIGHT

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

Keypad 13 Type & Area Assignment	ADDRESS 2437	
	LEFT	RIGHT

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

Keypad 14 Type & Area Assignment	ADDRESS 2438	
	LEFT	RIGHT

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

Keypad 15 Type & Area Assignment	ADDRESS 2439	
	LEFT	RIGHT

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


KEYPAD AREA ASSIGNMENT	
RIGHT	OPTION
blank (*)	Not Used
1	Area 1
2	Area 2
3	Area 3
4	Area 4
5	Area 5
6	Area 6
7	Area 7
8	Area 8

KEYPAD TYPE & AREA ASSIGNMENT: Up to 15 keypads may be programmed, if they are connected.

KEYPAD TYPE	
LEFT	OPTION
blank (*)	Burg Keypad
2	Wizard Keypad

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

 1. Select keypad type & area assignment for each keypad from the tables shown.

 2. Enter in corresponding right and left digit address locations above.

KEYPAD NUMBER	ADDR	KEYPAD OPTIONS							
		KEYPAD FIRE	KEYPAD AUXILIARY	KEYPAD PANIC	Rem. Acc. Only *	AMBUSH	EASY ARMING	PANEL ACCESS	TOUR STATION
		1	2	3	4	5	6	7	8
1	2440	default ON	default ON	default ON		default ON			
2	2441	default ON	default ON	default ON		default ON			
3	2442	default ON	default ON	default ON		default ON			
4	2443	default ON	default ON	default ON		default ON			
5	2444	default ON	default ON	default ON		default ON			
6	2445	default ON	default ON	default ON		default ON			
7	2446	default ON	default ON	default ON		default ON			
8	2447	default ON	default ON	default ON		default ON			
9	2448	default ON	default ON	default ON		default ON			
10	2449	default ON	default ON	default ON		default ON			
11	2450	default ON	default ON	default ON		default ON			
12	2451	default ON	default ON	default ON		default ON			
13	2452	default ON	default ON	default ON		default ON			
14	2453	default ON	default ON	default ON		default ON			
15	2454	default ON	default ON	default ON		default ON			

[Defaults as noted for address 2440-2454]

KEYPAD OPTIONS: Select options for any of the 15 keypads.

* **Note:** For Remote Access Control only (no Arm/Disarm capability).

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



 2. Enter corresponding option number in address location.

 3. Press  or  to save.

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

ACM ZONE OPTIONS (ADDRESS 2740-2779)

ACM ZONE OPTIONS:

Enter the Zone numbers (in decimal 1-255 format) for each option in the table below. Press  or  to save.

NOTE: Dark shaded data value box shows option not available. **Note:** The Area # for Door 1 is controlled by the existing Keypad Programming table (Address 2425 to 2439). The assigned area for Door #2 for each ACM must be entered in the table below (addresses 2748, 2758, 2768 and 2778) and must not be left blank if Door 2 is to be used.

ACM1 Zone Options	ADDR	Door 1	ADDR	Door 2
Door Contact	2740		2745	
Forced Entry Zone	2741		2746	
Door Ajar Zone	2742		2747	
Area # for Door 2			2748	
Reserved	2743		2749	
Reserved	2744			

ACM2 Zone Options	ADDR	Door 1	ADDR	Door 2
Door Contact	2750		2755	
Forced Entry Zone	2751		2756	
Door Ajar Zone	2752		2757	
Area # for Door 2			2758	
Reserved	2753		2759	
Reserved	2754			

ACM3 Zone Options	ADDR	Door 1	ADDR	Door 2
Door Contact	2760		2765	
Forced Entry Zone	2761		2766	
Door Ajar Zone	2762		2767	
Area # for Door 2			2768	
Reserved	2763		2769	
Reserved	2764			



ACM4 Zone Options	ADDR	Door 1	ADDR	Door 2
Door Contact	2770		2775	
Forced Entry Zone	2771		2776	
Door Ajar Zone	2772		2777	
Area # for Door 2			2778	
Reserved	2773		2779	
Reserved	2774			

ACM GLOBAL FLAGS (ADDRESS 2780)

2780	ACM Global Flags	
Default		Option
OFF	1	Enable Two-Swipe Arming
OFF	2	Enable NAPCO Proprietary Access Format
OFF	3	Enable Facility Code
OFF	4	Enable Access Logging into Burg Log
OFF	5	Enable Printing of Access Events
OFF	6	Enable Card Presentation Beep and Green LED Flash
OFF	7	RESERVED
OFF	8	RESERVED

ACM GLOBAL FLAGS:

- Select the desired option entering the option number (1-8) for each digit.
- Enter corresponding option number in address location.

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

ACM TIMEOUTS (ADDRESS 2782-2783)

Maximum Two-Swipe Arm Time (x100ms)	ADDRESS 2782


[Default = 030 = 3 seconds.]

Unlock Time (sec.)	ADDRESS 2783

[Default = 005 = 5 sec.]



Enable ACM Access (address 2423) must be enabled.



Address 2782 determines the maximum time allowed for the double swipe (x100ms). Address 2783 determines the door unlock time, in seconds, after a successful entry.

- Select timeout (1-255).
- Enter in corresponding address locations above and right. Press  or  to save.

ACM DOOR AREA OPTIONS (ADDRESS 2784-2791)

ACM DOOR AREA OPTIONS:

-  1. Select the desired option entering the option number (1-3) for each address.
-  2. Enter corresponding option number in address location.





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

ACM Door Number	ADDR	ACM DOOR AREA OPTIONS							
		Arm All Areas Allowed	Disarm All Areas Allowed	Stealth Mode	RSRVD.	RSRVD.	RSRVD.	RSRVD.	RSRVD.
		1	2	3	4	5	6	7	8
ACM 1 - Door 1	2784								
ACM 1 - Door 2	2785								
ACM 2 - Door 1	2786								
ACM 2 - Door 2	2787								
ACM 3 - Door 1	2788								
ACM 3 - Door 2	2789								
ACM 4 - Door 1	2790								
ACM 4 - Door 2	2791								

[Default = blank (•) blank (•) from address 2784-2791]

ACM SCHEDULED FREE ACCESS (ADDRESS 4072-4079)

ACM SCHEDULED FREE ACCESS:



-  1. Enter the Scheduled Free Access Index (1-96) (Relay #1-96) for each option in the table at right.
-  2. Press  or  to save.

Scheduled Free Access Index		
ADDR	Relay Number	
ACM 1 – Door 1 – 4072		
ACM 1 – Door 2 – 4073		
ACM 2 – Door 1 – 4074		
ACM 2 – Door 2 – 4075		
ACM 3 – Door 1 – 4076		
ACM 3 – Door 2 – 4077		
ACM 4 – Door 1 – 4078		
ACM 4 – Door 2 – 4079		

[Default = blank (•) blank (•) from address 4072-4079]

KEYPAD HOME AREA / ACM DOOR #1 AREA (HEX) (ADDRESS 2425-2439)

ACM ZONE OPTIONS:



- ☞ Enter the Zone numbers (in two-digit hexadecimal format) for each option in the table below.
- ☞ The left digit (nibble) determines the type of device: "●" for *Keypad* and "1" for *ACM*. **Note:** First device should be a keypad.
- ☞ The right digit (nibble) determines the home area (1-8) of the specified device.
- ☞ Press  or  to save.

KEYPAD HOME AREA / ACM DOOR #1 AREA (HEX) (ADDRESS 2425-2439)			
ACM / Keypad	ADDRESS	DEVICE TYPE (●) or 1	AREA # (1-8)
1	2425	See *Note at bottom	
2	2426		
3	2427		
4	2428		
5	2429		
6	2430		
7	2431		
8	2432		
9	2433		
10	2434		
11	2435		
12	2436		
13	2437		
14	2438		
15	2439		

[Default = blank (•) 1 for address 2425
blank (•) blank (•) for addresses 2426-2439]
* **Note:** First device should be a keypad.

SYSTEM OPTIONS (ADDRESS 2423)



SYSTEM OPTION:

- 1. Select the System Option from the table shown and enter in the corresponding address location at right. *Keypad Blanking* will clear all data from the LCD display (and turn off all keypad LED's) after the system is armed and delay time has expired. The display will re-appear when an exit/entry door is faulted, causing an entry time delay display, or if a valid user code is entered at the keypad while the system is armed.
- 2. Press  or  to save. **NOTE:** Dark shaded data value box shows option not available.

ADDRESS 2423	
SYSTEM OPTIONS	
DATA ENTRIES RIGHT	OPTION
1	Enable ACM Access
2	RESERVED
3	Enable TCP/IP Communications
4	TCP/IP Panel/Site Initiated Functions
5	RESERVED
6	RESERVED
7	RESERVED
8	Enable Keypad Blanking

EMERGENCY FREE ACCESS (ADDRESS 4080)

ENABLE ACM OPTION:

- 1. Select the Emergency Free Access Zone Number (1-255) and enter corresponding address location at right.
- 2. Press  or  to save.

Emergency Free Access Zone Number	ADDRESS 4080		

[Default = 000]

ACM OPTIONS

USER AREA OPTIONS (ADDRESS 2455-2550)



USER AREA OPTIONS

USER NUMBER	ADDR	AREAS 1 → 8							
		A1	A2	A3	A4	A5	A6	A7	A8
		1	2	3	4	5	6	7	8
1	2455	ON							
2	2456	ON							
3	2457	ON							
4	2458	ON							
5	2459	ON							
6	2460	ON							
7	2461	ON							
8	2462	ON							
9	2463		ON						
10	2464		ON						
11	2465		ON						
12	2466		ON						
13	2467		ON						
14	2468		ON						
15	2469		ON						
16	2470		ON						
17	2471								
18	2472								
19	2473								
20	2474								
21	2475								
22	2476								
23	2477								
24	2478								
25	2479								
26	2480								
27	2481								
28	2482								
29	2483								
30	2484								
31	2485								
32	2486								
33	2487								
34	2488								
35	2489								
36	2490								
37	2491								
38	2492								
39	2493								
40	2494								
41	2495								
42	2496								
43	2497								
44	2498								
45	2499								
46	2500								
47	2501								
48	2502								

USER NUMBER	ADDR	AREAS 1 → 8							
		A1	A2	A3	A4	A5	A6	A7	A8
		1	2	3	4	5	6	7	8
49	2503								
50	2504								
51	2505								
52	2506								
53	2507								
54	2508								
55	2509								
56	2510								
57	2511								
58	2512								
59	2513								
60	2514								
61	2515								
62	2516								
63	2517								
64	2518								
65	2519								
66	2520								
67	2521								
68	2522								
69	2523								
70	2524								
71	2525								
72	2526								
73	2527								
74	2528								
75	2529								
76	2530								
77	2531								
78	2532								
79	2533								
80	2534								
81	2535								
82	2536								
83	2537								
84	2538								
85	2539								
86	2540								
87	2541								
88	2542								
89	2543								
90	2544								
91	2545								
92	2546								
93	2547								
94	2548								
95	2549								
96	2550								

[Default = blank (•) blank (•) from address 2471-2550;
 blank (•) 1 for addresses 2455-2462;
 blank (•) 2 for addresses 2463-2470]

USER AREA OPTIONS:

1. Each address corresponds to a specific User, numbered 1-96. For each User, select the desired Area by marking the desired Area number (1-8) in the above table.
2. Enter the corresponding Area number in each the address location, in Binary (Bit) Format.
3. Press  or  to save.

NOTE: See Direct Address Programming Example on page 15.



EZM GROUP OPTIONS (ADDRESS 2555-2576)

EZM Group 1 ZONES 9-12 ADDRESS 2555	EZM Group 2 ZONES 13-16 ADDRESS 2556	EZM Group 3 ZONES 17-20 ADDRESS 2557	EZM Group 4 ZONES 21-24 ADDRESS 2558	EZM Group 5 ZONES 25-28 ADDRESS 2559	EZM Group 6 ZONES 29-32 ADDRESS 2560
EZM Group 7 ZONES 33-36 ADDRESS 2561	EZM Group 8 ZONES 37-40 ADDRESS 2562	EZM Group 9 ZONES 41-44 ADDRESS 2563	EZM Group 10 ZONES 45-48 ADDRESS 2564	EZM Group 11 ZONES 49-52 ADDRESS 2565	EZM Group 12 ZONES 53-56 ADDRESS 2566
EZM Group 13 ZONES 57-60 ADDRESS 2567	EZM Group 14 ZONES 61-64 ADDRESS 2568	EZM Group 15 ZONES 64-68 ADDRESS 2569	EZM Group 16 ZONES 69-72 ADDRESS 2570	EZM Group 17 ZONES 73-76 ADDRESS 2571	EZM Group 18 ZONES 77-80 ADDRESS 2572
EZM Group 19 ZONES 81-84 ADDRESS 2573	EZM Group 20 ZONES 85-88 ADDRESS 2574	EZM Group 21 ZONES 89-92 ADDRESS 2575	EZM Group 22 ZONES 93-96 ADDRESS 2576	Default depends on Easy Menu Question “## OF ZNS IN AREA1 and “## OF ZNS IN AREA2 . For example, If 96 zones are used, then all 22 groups will be automatically enabled. If only 8 zones are used, then groups 1-22 will be automatically disabled.	

NOTE: Zones 1-8 are included in the control panel and Zones 9-96 (Groups 1-22) are EZM Zones (either Wireless or Hardwired).

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

EZM GROUP OPTIONS: Up to 22 Groups of 4 Zones each may be programmed depending on the number of zones used and which EZM modules are connected. Each group represents 4 zones.

1. Select EZM type from the table shown.
2. Enter either blank (*) or "1" in corresponding address locations above.
3. Press  or  to save



GROUP NUMBER	ADDR	EZM PGM TERMINAL CONTROL							
		A1	A2	A3	A4	A5	A6	A7	A8
1	2577								
2	2578								
3	2579								
4	2580								
5	2581								
6	2582								
7	2583								
8	2584								
9	2585								
10	2586								
11	2587								

[Default = blank (*) blank (*) from address 2577-2587]

GROUP NUMBER	ADDR	EZM PGM TERMINAL CONTROL							
		A1	A2	A3	A4	A5	A6	A7	A8
12	2588								
13	2589								
14	2590								
15	2591								
16	2592								
17	2593								
18	2594								
19	2595								
20	2596								
21	2597								
22	2598								

[Default = blank (*) blank (*) from address 2588-2598]

EZM PGM ARMED TERMINAL CONTROL: For each zone group select the area(s) which, when armed, will activate the PGM Lug on the corresponding EZM modules. Each zone group corresponds to 4 zones. If 8-Zone EZMs are used each one is treated as TWO zone groups. **NOTE:** Lug goes ACTIVE (low) when ANY selected area is armed. When activated, the PGM Lug goes negative (to Ground).

1. Select the desired group number.
2. Enter the corresponding Area number in each the address location, in Binary (Bit) Format. **NOTE:** See Direct Address Programming Example on page 15.
3. Press  or  to save.



AREA ARMING OPTIONS (ADDRESS 2650-2657)

ARMING AREA	ADDR	PRIORITY AREA ARMING							
		A1	A2	A3	A4	A5	A6	A7	A8
		1	2	3	4	5	6	7	8
1	2650								
2	2651								
3	2652								
4	2653								
5	2654								
6	2655								
7	2656								
8	2657								

[Default = blank (*) blank (*) from address 2650-2657]

PRIORITY AREA ARMING:

1. Select the desired arming area.
2. Enter the corresponding Area number in each the address location, in Binary (Bit) Format. **NOTE:** See Direct Address Programming Example on page 15.
3. Press or to save.

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

REMOTE ACCESS LOGGING (ADDRESS 3184)

3184 System Options - Enable Keypad		
Default		Option
OFF	1	Enable Keypad 1
OFF	2	Enable Keypad 2
OFF	3	Enable Keypad 3
OFF	4	Enable Keypad 4
OFF	5	Enable Keypad 5
OFF	6	Enable Keypad 6
OFF	7	Enable Keypad 7
OFF	8	Enable Keypad 8

REMOTE ACCESS LOGGING: Enable logging of every keypad access event.

1. Select the desired option entering the option number (1-8) for each digit.
2. Enter corresponding option number in address location.
3. Press or to save.

AREA OUTPUT CONTROL OPTIONS (ADDRESS 2700-2739)

OUTPUT SILENCED (TURNED OFF)	ADDR	DISARMING AREA 1 TURNS OFF AREA OUTPUT							
		A1	A2	A3	A4	A5	A6	A7	A8
Burglary Output	2700	ON	ON						
Pulsed Burg. Output	2708	ON	ON						
Fire Output	2716								
Reset Relay	2724								
Auxiliary Relay	2732								

[Default = Noted above with "ON"]

OUTPUT SILENCED (TURNED OFF)	ADDR	DISARMING AREA 2 TURNS OFF AREA OUTPUT							
		A1	A2	A3	A4	A5	A6	A7	A8
Burglary Output	2701	ON	ON						
Pulsed Burg. Output	2709	ON	ON						
Fire Output	2717								
Reset Relay	2725								
Auxiliary Relay	2733								

[Default = Noted above with "ON"]

OUTPUT SILENCED (TURNED OFF)	ADDR	DISARMING AREA 3 TURNS OFF AREA OUTPUT							
		A1	A2	A3	A4	A5	A6	A7	A8
Burglary Output	2702								
Pulsed Burg. Output	2710								
Fire Output	2718								
Reset Relay	2726								
Auxiliary Relay	2734								

[Default = blank (*) blank (*) from address 2702-2735]

OUTPUT SILENCED (TURNED OFF)	ADDR	DISARMING AREA 4 TURNS OFF AREA OUTPUT							
		A1	A2	A3	A4	A5	A6	A7	A8
Burglary Output	2703								
Pulsed Burg. Output	2711								
Fire Output	2719								
Reset Relay	2727								
Auxiliary Relay	2735								

[Default = blank (*) blank (*) from address 2702-2735]

OUTPUT SILENCED (TURNED OFF)	ADDR	DISARMING AREA 5 TURNS OFF AREA OUTPUT							
		A1	A2	A3	A4	A5	A6	A7	A8
Burglary Output	2704								
Pulsed Burg. Output	2712								
Fire Output	2720								
Reset Relay	2728								
Auxiliary Relay	2736								

[Default = blank (*) blank (*) from address 2704-2737]



OUTPUT SILENCED (TURNED OFF)	ADDR	DISARMING AREA 6 TURNS OFF AREA OUTPUT							
		A1	A2	A3	A4	A5	A6	A7	A8
Burglary Output	2705								
Pulsed Burg. Output	2713								
Fire Output	2721								
Reset Relay	2729								
Auxiliary Relay	2737								

[Default = blank (*) blank (*) from address 2704-2737]

OUTPUT SILENCED (TURNED OFF)	ADDR	DISARMING AREA 7 TURNS OFF AREA OUTPUT							
		A1	A2	A3	A4	A5	A6	A7	A8
Burglary Output	2706								
Pulsed Burg. Output	2714								
Fire Output	2722								
Reset Relay	2730								
Auxiliary Relay	2738								

OUTPUT SILENCED (TURNED OFF)	ADDR	DISARMING AREA 8 TURNS OFF AREA OUTPUT							
		A1	A2	A3	A4	A5	A6	A7	A8
Burglary Output	2707								
Pulsed Burg. Output	2715								
Fire Output	2723								
Reset Relay	2731								
Auxiliary Relay	2739								

AREA OUTPUT TURNS OFF UPON DISARM: Select options for any of the 5 Outputs per area when disarming a particular area.

1. Select the desired option.
2. Enter the corresponding Area number in each the address location, in Binary (Bit) Format. **NOTE:** See Direct Address Programming Example on page 15.
3. Press  or  to save.

AREA OUTPUT CONTROL



RF RECEIVERS & SUPERVISORY TIMER OPTIONS (ADDRESS 3776 & 3760-3775)

Number of RF Receivers	ADDRESS 3776	
	0	0

Default Number of Receivers = 0

DATA ENTRIES	RF RECEIVER(S)
0	None
1	1
2	2
3	3
4	4

RF RECEIVERS: Up to 4 RF Receivers may be programmed. **NOTE:** This allows wireless capability to the system, of up to 255 zones.

- Select the number of receivers (1-4).
- Enter the corresponding decimal number (1-4) into the right-most location. Press or to save.

RF SUPERVISORY TIMER	RF TRANSMITTER	ADDRESS 3760-3767		
		LEFT	ADDR	RIGHT
Type 0	Window/Door, 2 Pt.		3760	
Type 1	Window/Door, 2 Pt.		3761	
Type 2	Window/Door, 2 Pt.		3762	
Type 3	Window/Door, 2 Pt.		3763	
Type 4	Window/Door, 4 Pt.		3764	
Type 5	PIR		3765	
Type 6	PIR		3766	
Type 7	Smoke Detector		3767	

[Default = blank (*) 8 from address 3760-3767 (80 minutes)]

RF SUPERVISORY TIMER	RF TRANSMITTER	ADDRESS 3768-3775		
		LEFT	ADDR	RIGHT
Type 8	Smoke Detector		3768	
Type 9	Keyfob		3769	
Type A	Dual Tech.		3770	
Type B	Keyfob		3771	
Type C	Window/Door, 4 Pt.		3772	
Type D	PIR		3773	
Type E	Smoke Detector		3774	
Type F	Napco Glass Break		3775	

[Default = blank (*) 8 from address 3768-3775 (80 minutes)]

RF RECEIVERS & SUPERVISORY TIMER OPTIONS

RF SUPERVISORY TIMERS		
DATA ENTRIES	DELAY	
LEFT	RIGHT	
blank (*)	blank (*)	0 min.
blank (*)	1	10 min.
blank (*)	2	20 min.
blank (*)	3	30 min.
blank (*)	4	40 min.
blank (*)	5	50 min.
blank (*)	6	60 min.
blank (*)	7	70 min.
blank (*)	8	80 min.
blank (*)	9	90 min.
blank (*)	0	100 min.
blank (*)	B	110 min.
blank (*)	C	120 min.
blank (*)	D	130 min.
blank (*)	E	140 min.
blank (*)	F	150 min.
1	blank (*)	160 min.
1	1	170 min.
1	2	180 min.
1	3	190 min.
1	4	200 min.
1	5	210 min.
1	6	220 min.
1	7	230 min.
1	8	240 min.
1	9	250 min.
1	0	260 min.
1	B	270 min.
1	C	280 min.
1	D	290 min.
1	E	300 min.
1	F	310 min.
2	blank (*)	320 min.
2	1	330 min.
2	2	340 min.
2	3	350 min.
2	4	360 min.
2	5	370 min.

RF SUPERVISORY TIMERS		
DATA ENTRIES	DELAY	
LEFT	RIGHT	
2	6	380 min.
2	7	390 min.
2	8	400 min.
2	9	410 min.
2	0	420 min.
2	B	430 min.
2	C	440 min.
2	D	450 min.
2	E	460 min.
2	F	470 min.
3	blank (*)	480 min.
3	1	490 min.
3	2	500 min.
3	3	510 min.
3	4	520 min.
3	5	530 min.
3	6	540 min.
3	7	550 min.
3	8	560 min.
3	9	570 min.
3	0	580 min.
3	B	590 min.
3	C	600 min.
3	D	610 min.
3	E	620 min.
3	F	630 min.
4	blank (*)	640 min.
4	1	650 min.
4	2	660 min.
4	3	670 min.
4	4	680 min.
4	5	690 min.
4	6	700 min.
F	F	2550 min. = 42 Hr., 30 min.

RF SUPERVISORY TIMERS: RF Supervisory Timers may be programmed for each type of transmitter used. A transmitter will send a transmission every time it is tripped, when there is NO activity, the transmitter sends a status transmission about once an hour. If the receiver does NOT receive ANY signal (a trip or a status) from a transmitter in the time specified for transmitter type, a system trouble "E-04-NN" will be displayed at the keypad.

- Select timer delay from the table shown. Timers are programmed in increments of 10 minutes each. Valid entries are (*)8-FF (80 minutes-2550 min) (2550 minutes = 42 hr,30 min). **WARNING:** Timers have uncertainty of +/-30 minutes.
- Enter in corresponding address locations above (left and right digits).
- For a desired *timer not* listed do the following:

$$\begin{array}{r}
 \textcircled{6} \text{ Quotient} \longrightarrow \text{Left Digit} \\
 16 \overline{) 100} \\
 \underline{-96} \\
 \textcircled{4} \text{ Remainder} \longrightarrow \text{Right Digit}
 \end{array}$$

- Choose a desired timer (intervals of 10), ex: 1440 min. (24 Hours)
- Divide it by 10, ex: 1440/10 = 144
- Divide it by 16

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

EXTERNAL RELAY CONTROL / RELAYS 1-39 (ADDRESS 3778-3816 & 2800-2955)

ADDRESS 3778 & 2800-2803 (RELAY/entry 1)									
3778		2800		2801		2802		2803	
L	R	L	R			L	R	L	R

ADDRESS 3779 & 2804-2807 (RELAY/entry 2)									
3779		2804		2805		2806		2807	
L	R	L	R			L	R	L	R

ADDRESS 3780 & 2808-2811 (RELAY/entry 3)									
3780		2808		2809		2810		2811	
L	R	L	R			L	R	L	R

ADDRESS 3781 & 2812-2815 (RELAY/entry 4)									
3781		2812		2813		2814		2815	
L	R	L	R			L	R	L	R

ADDRESS 3782 & 2816-2819 (RELAY/entry 5)									
3782		2816		2817		2818		2819	
L	R	L	R			L	R	L	R

ADDRESS 3783 & 2820-2823 (RELAY/entry 6)									
3783		2820		2821		2822		2823	
L	R	L	R			L	R	L	R

ADDRESS 3784 & 2824-2827 (RELAY/entry 7)									
3784		2824		2825		2826		2827	
L	R	L	R			L	R	L	R

ADDRESS 3785 & 2828-2831 (RELAY/entry 8)									
3785		2828		2829		2830		2831	
L	R	L	R			L	R	L	R

ADDRESS 3786 & 2832-2835 (RELAY/entry 9)									
3786		2832		2833		2834		2835	
L	R	L	R			L	R	L	R

ADDRESS 3787 & 2836-2839 (RELAY/entry 10)									
3787		2836		2837		2838		2839	
L	R	L	R			L	R	L	R

ADDRESS 3788 & 2840-2843 (RELAY entry 11)									
3788		2840		2841		2842		2843	
L	R	L	R			L	R	L	R

ADDRESS 3789 & 2844-2847 (RELAY/entry 12)									
3789		2844		2845		2846		2847	
L	R	L	R			L	R	L	R

ADDRESS 3790 & 2848-2851 (RELAY/entry 13)									
3790		2848		2849		2850		2851	
L	R	L	R			L	R	L	R

ADDRESS 3791 & 2852-2855 (RELAY/entry 14)									
3791		2852		2853		2854		2855	
L	R	L	R			L	R	L	R

ADDRESS 3792 & 2856-2859 (RELAY/entry 15)									
3792		2856		2857		2858		2859	
L	R	L	R			L	R	L	R

ADDRESS 3793 & 2860-2863 (RELAY/entry 16)									
3793		2860		2861		2862		2863	
L	R	L	R			L	R	L	R

ADDRESS 3794 & 2864-2867 (RELAY/entry 17)									
3794		2864		2865		2866		2867	
L	R	L	R			L	R	L	R

ADDRESS 3795 & 2868-2871 (RELAY/entry 18)									
3795		2868		2869		2870		2871	
L	R	L	R			L	R	L	R

ADDRESS 3796 & 2872-2875 (RELAY/entry 19)									
3796		2872		2873		2874		2875	
L	R	L	R			L	R	L	R

ADDRESS 3797 & 2876-2879 (RELAY/entry 20)									
3797		2876		2877		2878		2879	
L	R	L	R			L	R	L	R

ADDRESS 3798 & 2880-2883 (RELAY/entry 21)									
3798		2880		2881		2882		2883	
L	R	L	R			L	R	L	R

ADDRESS 3799 & 2884-2887 (RELAY/entry 22)									
3799		2884		2885		2886		2887	
L	R	L	R			L	R	L	R

ADDRESS 3800 & 2888-2891 (RELAY/entry 23)									
3800		2888		2889		2890		2891	
L	R	L	R			L	R	L	R

ADDRESS 3801 & 2892-2895 (RELAY/entry 24)									
3801		2892		2893		2894		2895	
L	R	L	R			L	R	L	R

ADDRESS 3802 & 2896-2899 (RELAY/entry 25)									
3802		2896		2897		2898		2899	
L	R	L	R			L	R	L	R

ADDRESS 3803 & 2900-2903 (RELAY/entry 26)									
3803		2900		2901		2902		2903	
L	R	L	R			L	R	L	R

ADDRESS 3804 & 2904-2907 (RELAY/entry 27)									
3804		2904		2905		2906		2907	
L	R	L	R			L	R	L	R

ADDRESS 3805 & 2908-2911 (RELAY/entry 28)									
3805		2908		2909		2910		2911	
L	R	L	R			L	R	L	R

ADDRESS 3794 & 2864-2867 (RELAY/entry 29)									
3806		2912		2913		2914		2915	
L	R	L	R			L	R	L	R

ADDRESS 3807 & 2916-2919 (RELAY/entry 30)									
3807		2916		2917		2918		2919	
L	R	L	R			L	R	L	R

ADDRESS 3808 & 2920-2923 (RELAY/entry 31)									
3808		2920		2921		2922		2923	
L	R	L	R			L	R	L	R

ADDRESS 3809 & 2924-2927 (RELAY/entry 32)									
3809		2924		2925		2926		2927	
L	R	L	R			L	R	L	R

ADDRESS 3810 & 2928-2931 (RELAY/entry 33)									
3810		2928		2929		2930		2931	
L	R	L	R			L	R	L	R

ADDRESS 3811 & 2932-2935 (RELAY/entry 34)									
3811		2932		2933		2934		2935	
L	R	L	R			L	R	L	R

ADDRESS 3812 & 2936-2939 (RELAY/entry 35)									
3812		2936		2937		2938		2939	
L	R	L	R			L	R	L	R

ADDRESS 3813 & 2940-2943 (RELAY/entry 36)									
3813		2940		2941		2942		2943	
L	R	L	R			L	R	L	R

ADDRESS 3814 & 2944-2947 (RELAY/entry 37)									
3814		2944		2945		2946		2947	
L	R	L	R			L	R	L	R

ADDRESS 3815 & 2948-2951 (RELAY/entry 38)									
3815		2948		2949		2950		2951	
L	R	L	R			L	R	L	R

ADDRESS 3816 & 2952-2955 (RELAY/entry 39)									
3816		2952		2953		2954		2955	
L	R	L	R			L	R	L	R

EXTERNAL RELAY CONTROL



EXTERNAL RELAY CONTROL / RELAYS 40-78 (ADDRESS 3817-3855 & 2956-3111)

EXTERNAL RELAY CONTROL

ADDRESS 3778 & 2956-2959 (RELAY/entry 40)

3817	2956	2957	2958	2959
L R	L R		L R	L R

ADDRESS 3818 & 2960-2963 (RELAY/entry 41)

3818	2960	2961	2962	2963
L R	L R		L R	L R

ADDRESS 3819 & 2964-2967 (RELAY/entry 42)

3819	2964	2965	2966	2967
L R	L R		L R	L R

ADDRESS 3820 & 2968-2971 (RELAY/entry 43)

3820	2968	2969	2970	2971
L R	L R		L R	L R

ADDRESS 3821 & 2972-2975 (RELAY/entry 44)

3821	2972	2973	2974	2975
L R	L R		L R	L R

ADDRESS 3822 & 2976-2979 (RELAY/entry 45)

3822	2976	2977	2978	2979
L R	L R		L R	L R

ADDRESS 3823 & 2980-2983 (RELAY/entry 46)

3823	2980	2981	2982	2983
L R	L R		L R	L R

ADDRESS 3824 & 2984-2987 (RELAY/entry 47)

3824	2984	2985	2986	2987
L R	L R		L R	L R

ADDRESS 3825 & 2988-2991 (RELAY/entry 48)

3825	2988	2989	2990	2991
L R	L R		L R	L R

ADDRESS 3826 & 2992-2995 (RELAY/entry 49)

3826	2992	2993	2994	2995
L R	L R		L R	L R

ADDRESS 3827 & 2996-2999 (RELAY EVENT 50)

3827	2996	2997	2998	2999
L R	L R		L R	L R

ADDRESS 3828 & 3000-3003 (RELAY/entry 51)

3828	3000	3001	3002	3003
L R	L R		L R	L R

ADDRESS 3829 & 3004-3007 (RELAY/entry 52)

3829	3004	3005	3006	3007
L R	L R		L R	L R

ADDRESS 3830 & 3008-3011 (RELAY/entry 53)

3830	3008	3009	3010	3011
L R	L R		L R	L R

ADDRESS 3831 & 3012-3015 (RELAY/entry 54)

3831	3012	3013	3014	3015
L R	L R		L R	L R

ADDRESS 3832 & 3016-3019 (RELAY/entry 55)

3832	3016	3017	3018	3019
L R	L R		L R	L R

ADDRESS 3833 & 3020-3023 (RELAY/entry 56)

3833	3020	3021	3022	3023
L R	L R		L R	L R

ADDRESS 3834 & 3024-3027 (RELAY/entry 57)

3834	3024	3025	3026	3027
L R	L R		L R	L R

ADDRESS 3835 & 3028-3031 (RELAY/entry 58)

3835	3028	3029	3030	3031
L R	L R		L R	L R

ADDRESS 3836 & 3032-3035 (RELAY/entry 59)

3836	3032	3033	3034	3035
L R	L R		L R	L R

ADDRESS 3798 & 3036-3039 (RELAY/entry 60)

3798	3036	3037	3038	3039
L R	L R		L R	L R

ADDRESS 3838 & 3040-3043 (RELAY/entry 61)

3838	3040	3041	3042	3043
L R	L R		L R	L R

ADDRESS 3839 & 3044-3047 (RELAY/entry 62)

3839	3044	3045	3046	3047
L R	L R		L R	L R

ADDRESS 3840 & 3048-3051 (RELAY/entry 63)

3840	3048	3049	3050	3051
L R	L R		L R	L R

ADDRESS 3841 & 3052-3055 (RELAY/entry 64)

3841	3052	3053	3054	3055
L R	L R		L R	L R

ADDRESS 3842 & 3056-3059 (RELAY/entry 65)

3842	3056	3057	3058	3059
L R	L R		L R	L R

ADDRESS 3843 & 3060-3063 (RELAY/entry 66)

3843	3060	3061	3062	3063
L R	L R		L R	L R

ADDRESS 3844 & 3064-3067 (RELAY/entry 67)

3844	3064	3065	3066	3067
L R	L R		L R	L R

ADDRESS 3845 & 3068-3071 (RELAY/entry 68)

3845	3068	3069	3070	3071
L R	L R		L R	L R

ADDRESS 3846 & 3072-3075 (RELAY/entry 69)

3846	3072	3073	3074	3075
L R	L R		L R	L R

ADDRESS 3847 & 3076-3079 (RELAY/entry 70)

3847	3076	3077	3078	3079
L R	L R		L R	L R

ADDRESS 3848 & 3080-3083 (RELAY/entry 71)

3848	3080	3081	3082	3083
L R	L R		L R	L R

ADDRESS 3849 & 3084-3087 (RELAY/entry 72)

3849	3084	3085	3086	3087
L R	L R		L R	L R

ADDRESS 3850 & 3088-3091 (RELAY/entry 73)

3850	3088	3089	3090	3091
L R	L R		L R	L R

ADDRESS 3851 & 3092-3095 (RELAY/entry 74)

3851	3092	3093	3094	3095
L R	L R		L R	L R

ADDRESS 3852 & 3096-3099 (RELAY/entry 75)

3852	3096	3097	3098	3099
L R	L R		L R	L R

ADDRESS 3853 & 3100-3103 (RELAY/entry 76)

3853	3100	3101	3102	3103
L R	L R		L R	L R

ADDRESS 3854 & 3104-3107 (RELAY/entry 77)

3854	3104	3105	3106	3107
L R	L R		L R	L R

ADDRESS 3855 & 3108-3111 (RELAY/entry 78)

3855	3108	3109	3110	3111
L R	L R		L R	L R

EXTERNAL RELAY CONTROL / RELAYS 79-96 (ADDRESS 3856-3873 & 3112-3183)

ADDRESS 3856 & 3112-3115 (RELAY/entry 79)									
3856		3112		3113		3114		3115	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3857 & 3116-3119 (RELAY/entry 80)									
3857		3116		3117		3118		3119	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3858 & 3120-3123 (RELAY/entry 81)									
3858		3120		3121		3122		3123	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3859 & 3124-3127 (RELAY/entry 82)									
3859		3124		3125		3126		3127	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3860 & 3128-3131 (RELAY/entry 83)									
3860		3128		3129		3130		3131	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3861 & 3132-3135 (RELAY/entry 84)									
3861		3132		3133		3134		3135	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3862 & 3136-3139 (RELAY/entry 85)									
3862		3136		3137		3138		3139	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3863 & 3140-3143 (RELAY/entry 86)									
3863		3140		3141		3142		3143	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3864 & 3144-3147 (RELAY/entry 87)									
3864		3144		3145		3146		3147	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3865 & 3148-3151 (RELAY/entry 88)									
3865		3148		3149		3150		3151	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3866 & 3152-3155 (RELAY entry 89)									
3866		3152		3153		3154		3155	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3867 & 3156-3159 (RELAY/entry 90)									
3867		3156		3157		3158		3159	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3868 & 3160-3163 (RELAY/entry 91)									
3868		3160		3161		3162		3163	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3869 & 3164-3167 (RELAY/entry 92)									
3869		3164		3165		3166		3167	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3870 & 3168-3171 (RELAY/entry 93)									
3870		3168		3169		3170		3171	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3871 & 3172-3175 (RELAY/entry 94)									
3871		3172		3173		3174		3175	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3872 & 3176-3179 (RELAY/entry 95)									
3872		3176		3177		3178		3179	
L	R	L	R	L	R	L	R	L	R

ADDRESS 3873 & 3180-3183 (RELAY/entry 96)									
3873		3180		3181		3182		3183	
L	R	L	R	L	R	L	R	L	R

[Default = blank (•) blank (•) from address 3778-3873 & 2800-3183]

To program, follow the 5 steps below:
STEP 1: RELAY # OPTIONS: Each relay/entry can be assigned to any of the 96 available external relays from Relay Module RM3008. Multiple entries can drive the same External Relay.
 Select the relay number from **Table 1** (shown on next page); enter in corresponding left and right digit address locations.
Note: Entries 01-96 correspond to relays 1 through 96. If entries are zero, zero (00), then relay number is identical to the relay/entry address table number, in the selected address table(s) above.

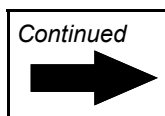
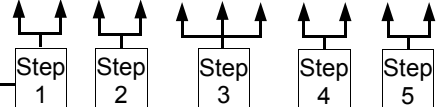
STEP 2: AREA OPTIONS: Each relay/entry can be assigned to Area 1-8 or all areas.
 Select the area from **Table 2** (shown on next page); enter in corresponding left and right digit address locations.

STEP 3: TIMEOUTS: Each relay event can be assigned a timeout depending on Alarm Type option.
 If Alarm Type is selected for timeout in minutes or seconds, enter the 3-digit **timeout duration** in corresponding address location. To choose seconds or minutes, see step 5A below. 254 is maximum entry.

STEP 4: EVENT ID CODES: Each relay event can be assigned any of the available event IDs from the table.
 Select 2-digit Event ID from **Table 4** (see page 55); enter in corresponding address locations (left and right digit).

STEP 5: RELAY EVENT CONDITION OPTIONS: Each relay event can be assigned an alarm type; and an activation condition; also, select a timeout type for each.
 5A. Select Alarm Type and Timeout Type from **Table 5A** (see page 56); enter in corresponding address location (left digit).
NOTE: Select Timeout from Step 3.
 5B. Select Activation from from **Table 5B** (see page 56); enter in corresponding address location (right digit).

RELAY EVENT OPTIONS									
RELAY #		AREA		Timeout		Event ID		COND.	
L	R	L	R	L	R	L	R	L	R



EXTERNAL RELAY CONTROL

RELAY EVENT OPTIONS				
RELAY #	AREA	TIMEOUT	EVENT ID	COND.
See Table 1 below	See Table 2 below	See Table 3 below	See Table 4 on page 55	See Tables 5A & 5B on page 56

TABLE 1 RELAY MAPPING DATA ENTRIES		
LEFT	RIGHT	RELAY #
blank (*)	blank (*)	None *
blank (*)	1	1
blank (*)	2	2
blank (*)	3	3
blank (*)	4	4
blank (*)	5	5
blank (*)	6	6
blank (*)	7	7
blank (*)	8	8
blank (*)	9	9
blank (*)	0	10
blank (*)	B	11
blank (*)	C	12
blank (*)	D	13
blank (*)	E	14
blank (*)	F	15
1	blank (*)	16
1	1	17
1	2	18
1	3	19
1	4	20
1	5	21
1	6	22
1	7	23
1	8	24
1	9	25
1	0	26
1	B	27
1	C	28
1	D	29
1	E	30
1	F	31
2	blank (*)	32
2	1	33
2	2	34
2	3	35
2	4	36
2	5	37
2	6	38
2	7	39
2	8	40
2	9	41
2	0	42
2	B	43
2	C	44
2	D	45
2	E	46
2	F	47
6	blank (*)	96

Areas 1-4

Areas 5-8

TABLE 2 (AREAS 1-4) AREAS CONTROLLING RELAY SHUTOFF ON DISARM				
RIGHT DATA ENTRY	AREA 4	AREA 3	AREA 2	AREA 1
blank (*)	NONE			
1	Y			
2		Y		
3	Y	Y		
4			Y	
5	Y		Y	
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C			Y	Y
D	Y		Y	Y
E		Y	Y	Y
F	Y	Y	Y	Y

Note: "Y" indicates option is enabled.

TABLE 2 (AREAS 5-8) AREAS CONTROLLING RELAY SHUTOFF ON DISARM				
LEFT DATA ENTRY	AREA 8	AREA 7	AREA 6	AREA 5
blank (*)	NONE			
1	Y			
2		Y		
3	Y	Y		
4			Y	
5	Y		Y	
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C			Y	Y
D	Y		Y	Y
E		Y	Y	Y
F	Y	Y	Y	Y

Note: "Y" indicates option is enabled.

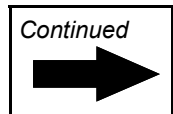
TIMEOUTS: Each relay event can be assigned a timeout depending on Alarm Type option.
 If Alarm Type is selected for timeout in minutes or seconds, enter the 3-digit **time-out duration** in corresponding address location. To choose seconds or minutes, see step 5A on page 56. Maximum entry is 254.

EXTERNAL RELAY CONTROL

* Note: [blank (*) blank (*)] option affects the relay with the same entry number. All other options affect the relay number specified. Ex: Suppose Relay/Entry 1 is mapped to External Relay 1 and Relay/Entry 2 is mapped to External Relay 24. The data entries are as follows: Address 3778 = [blank (*) blank (*)] and Address 3779 = [1C].

For a desired relay not listed:
 A. Choose a desired relay, ex: 60
 B. Divide it by 16

$$\begin{array}{r}
 \textcircled{3} \text{ Quotient} \longrightarrow \text{Left Digit} \\
 16 \overline{)60} \\
 \underline{-48} \\
 \textcircled{C} \text{ Remainder} \longrightarrow \text{Right Digit}
 \end{array}$$



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


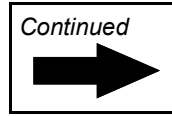
 Select 2-digit Event ID from **Table 4** (below); enter in corresponding address locations (left and right digit).

TABLE 4		
EVENT ID CODES		
DATA ENTRIES		OPTION
LEFT	RIGHT	
blank (+)	blank (+)	Area 1 Arm
blank (+)	1	Area 2 Arm
blank (+)	2	Area 3 Arm
blank (+)	3	Area 4 Arm
blank (+)	4	Area 5 Arm
blank (+)	5	Area 6 Arm
blank (+)	6	Area 7 Arm
blank (+)	7	Area 8 Arm
C	blank (+)	Area 1 Disarm
C	1	Area 2 Disarm
C	2	Area 3 Disarm
C	3	Area 4 Disarm
C	4	Area 5 Disarm
C	5	Area 6 Disarm
C	6	Area 7 Disarm
C	7	Area 8 Disarm
blank (+)	8	Zone 1
blank (+)	9	Zone 2
blank (+)	0	Zone 3
blank (+)	B	Zone 4
blank (+)	C	Zone 5
blank (+)	D	Zone 6
blank (+)	E	Zone 7
blank (+)	F	Zone 8
1	blank (+)	Zone 9
1	1	Zone 10
1	2	Zone 11
1	3	Zone 12
1	4	Zone 13
1	5	Zone 14
1	6	Zone 15
1	7	Zone 16
1	8	Zone 17
1	9	Zone 18
1	0	Zone 19
1	B	Zone 20
1	C	Zone 21
1	D	Zone 22
1	E	Zone 23
1	F	Zone 24
2	blank (+)	Zone 25
2	1	Zone 26
2	2	Zone 27
2	3	Zone 28
2	4	Zone 29
2	5	Zone 30
2	6	Zone 31
2	7	Zone 32
2	8	Zone 33
2	9	Zone 34
2	0	Zone 35
2	B	Zone 36
2	C	Zone 37
2	D	Zone 38
2	E	Zone 39
2	F	Zone 40
3	blank (+)	Zone 41
3	1	Zone 42
3	2	Zone 43
3	3	Zone 44
3	4	Zone 45
3	5	Zone 46
3	6	Zone 47
3	7	Zone 48
3	8	Zone 49
3	9	Zone 50
3	0	Zone 51
3	B	Zone 52

3	C	Zone 53
3	D	Zone 54
3	E	Zone 55
3	F	Zone 56
4	blank (+)	Zone 57
4	1	Zone 58
4	2	Zone 59
4	3	Zone 60
4	4	Zone 61
4	5	Zone 62
4	6	Zone 63
4	7	Zone 64
4	8	Zone 65
4	9	Zone 66
4	0	Zone 67
4	B	Zone 68
4	C	Zone 69
4	D	Zone 70
4	E	Zone 71
4	F	Zone 72
5	blank (+)	Zone 73
5	1	Zone 74
5	2	Zone 75
5	3	Zone 76
5	4	Zone 77
5	5	Zone 78
5	6	Zone 79
5	7	Zone 80
5	8	Zone 81
5	9	Zone 82
5	0	Zone 83
5	B	Zone 84
5	C	Zone 85
5	D	Zone 86
5	E	Zone 87
5	F	Zone 88
6	blank (+)	Zone 89
6	1	Zone 90
6	2	Zone 91
6	3	Zone 92
6	4	Zone 93
6	5	Zone 94
6	6	Zone 95
6	7	Zone 96
6	8	Area 1 Keypad Ambush
6	9	Area 1 Keypad Panic
6	0	Area 1 Keypad Fire
6	B	Area 1 Keypad Medical
6	C	Keypad Tamper
6	D	Area 1 Fail to Open
6	E	Area 1 Fail to Close
7	blank (+)	Area 2 Keypad Ambush
7	1	Area 2 Keypad Panic
7	2	Area 2 Keypad Fire
7	3	Area 2 Keypad Medical
7	5	Area 2 Fail to Open
7	6	Area 2 Fail to Close
7	8	Area 3 Keypad Ambush
7	9	Area 3 Keypad Panic
7	0	Area 3 Keypad Fire
7	B	Area 3 Keypad Medical
7	D	Area 3 Fail to Open
7	E	Area 3 Fail to Close
8	blank (+)	Area 4 Keypad Ambush
8	1	Area 4 Keypad Panic
8	2	Area 4 Keypad Fire
8	3	Area 4 Keypad Medical
8	5	Area 4 Fail to Open
8	6	Area 4 Fail to Close
8	8	Area 5 Keypad Ambush
8	9	Area 5 Keypad Panic
8	0	Area 5 Keypad Fire
8	B	Area 5 Keypad Medical
8	D	Area 5 Fail to Open
8	E	Area 5 Fail to Close
9	blank (+)	Area 6 Keypad Ambush

9	1	Area 6 Keypad Panic
9	2	Area 6 Keypad Fire
9	3	Area 6 Keypad Medical
9	5	Area 6 Fail to Open
9	6	Area 6 Fail to Close
9	8	Area 7 Keypad Ambush
9	9	Area 7 Keypad Panic
9	0	Area 7 Keypad Fire
9	B	Area 7 Keypad Medical
9	D	Area 7 Fail to Open
9	E	Area 7 Fail to Close
0	blank (+)	Area 8 Keypad Ambush
0	1	Area 8 Keypad Panic
0	2	Area 8 Keypad Fire
0	3	Area 8 Keypad Medical
0	5	Area 8 Fail to Open
0	6	Area 8 Fail to Close
0	8	Test Timer
0	0	Bus Fail
0	B	Guarded RAM Fail
0	C	Low Battery
0	D	AC Fail
0	E	EZM Tamper
0	F	Sensor Watch
B	blank (+)	Telco Fault
B	8	Digital Dialer Test
B	9	Guard-Tour Fail
B	B	Service Message
B	C	Program Change
B	D	RF Receiver Trouble
B	E	Transmitter Tamper
B	F	Transmitter Trouble
D	blank (+)	Keypad Fail
D	1	EZM Fail
D	2	Quickloader Device Control
D	3	System Shutdown
D	4	Quickloader Keypad Reset
D	5	General System Alarm
D	8	Area 1 General System Alarm
D	9	Area 2 General System Alarm
D	0	Area 3 General System Alarm
D	B	Area 4 General System Alarm
D	C	Area 5 General System Alarm
D	D	Area 6 General System Alarm
D	E	Area 7 General System Alarm
D	F	Area 8 General System Alarm
F	blank (+)	Relay Group 1
F	1	Relay Group 2
F	2	Relay Group 3
F	3	Relay Group 4
F	4	Relay Group 5
F	5	Relay Group 6
F	6	Relay Group 7
F	7	Relay Group 8
F	8	Area 1 Entry Delay
F	9	Area 2 Entry Delay
F	0	Area 3 Entry Delay
F	B	Area 4 Entry Delay
F	C	Area 5 Entry Delay
F	D	Area 6 Entry Delay
F	E	Area 7 Entry Delay
F	F	Area 8 Entry Delay

NOTE: Keypad Tamper must be enabled in UL installations using jumper option on keypad.



EXTERNAL RELAY CONTROL

STEP 5: RELAY EVENT CONDITION OPTIONS: Each relay event can be assigned an alarm type; and an activation condition; also, select a timeout type for each.

5A. Select Alarm Type and Timeout Type from **Table 5A** (below); enter in corresponding address location (left digit). **NOTE:** Select Timeout from Step 3.

5B. Select Activation from from **Table 5B** (below); enter in corresponding address location (right digit).

TABLE 5A RELAY EVENT ALARM TYPE OPTIONS		
LEFT DATA ENTRIES	ALARM TYPE	TIMEOUT TYPE
blank (*)	Burglary	Minutes
1	Fire	Minutes
4	Day Zone	Minutes
8	Burglary	Seconds
9	Fire	Seconds
C	Day Zone	Seconds

TABLE 5B RELAY EVENT ACTIVATION CONDITIONS	
RIGHT DATA ENTRIES	OPTIONS
1	Alarm
2	Restore
3	Trouble
4	Trouble Restore
5	Follows Open Zone
6	Follows Shorted Zone

NUMBER OF RELAY BOARD MODULES (ADDRESS 3777)

Number of Relay Board Modules	ADDRESS 3777	
	LEFT	RIGHT
	blank (*)	

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

DATA ENTRIES	Relay Board Module(s)
RIGHT	
blank (*)	None
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	10
B	11
C	12

RELAY BOARD MODULES: Up to 12 External Relay Board Modules (RM3008) may be programmed.

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

SYSTEM RESET OPTIONS (ADDRESS 4091-4093)

4091 XX

GEM-RP1CAe2/GEM-K1CA Keypad

Clear Dealer Program (Erases Dealer Program)



This erases the dealer program. Use this feature to start a customized default program.

4091XX

Access address 4091, then press the  or  button. Data entry is not allowed.

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

4093 XX

GEM-RP1CAe2/GEM-K1CA Keypad

Cold Start (Erases Entire Program)



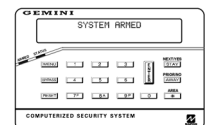
This erases the entire program (codes, schedules, foreign language configuration, etc), leaving the panel as it came right out of the box.

4093XX

Access address 4093, then press the  or  button. Data entry is not allowed.






NOTE: Some features (schedules, language configuration) can only be re-programmed with the Downloading Software.

USER PROGRAM MODE





PRELIMINARY INFORMATION

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

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

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

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

DIRECT ADDRESS PROGRAM MODE--USER PROGRAM MODE



ACCESSING USER PROGRAM MODE

1. Press **MENU**
 ← New Panel (Default User Code = 123) →
 Existing Panel (Any Code with User Program Option Enabled)

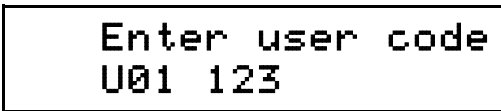
2. Press **Until "ACTIVATE PROGRAM Y/N" appears on LCD screen.**

3. Press **To Enter User Program Mode**

4. Press **To Exit User Program Mode when finished**

USER PROGRAM MODE

USER CODES



GEM-K1CA Keypad (Direct Entry)

Up to 195 User Codes may be programmed.
NOTE: In this mode, only the code is programmable; the accompanying Area Options must be programmed in the Dealer Program Mode. By default, User 1 is enabled in Area 1 and 2; Users 2-8 are enabled in Area 1, Users 9-16 are enabled in Area 2; Users 17-195 are not enabled in any areas (see page 10).

☞ Use the button to place the cursor over the User Number.

☞ Enter a User Number (001-195) using the number buttons. The cursor will then advance to the User Code and read the existing code, if any.

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

☞ Press the button to save the code in memory.

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

To Program User Codes





1. Set Cursor Position using the button.
2. Enter 2-digit User Number (001-195) directly using number buttons (0-9).
3. Enter Code (1-6 digits) directly using number buttons (0-9).
4. Press the button to save each code.

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






















Programming User Codes with GEM-K1CA Keypad


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


01-

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





(Direct Entry)

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

Press  to move cursor right.

Press  to move cursor left.

Notes:

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


Press  to save.

To proceed to the next description, place the cursor under the Zone Number (e.g. "1") and press the number that corresponds to the zone. Repeat this procedure until all zones have been programmed. After programming the user codes, press the NEXT button to proceed.

Enter Date
(/ /)

(Direct Entry)


Enter Date (Press the  button to set cursor.)

Enter the current date in the format MM/DD/YY, where MM = the month (01-12); DD=the day (01-31); and YY=the year. Press  to save. Press NEXT button to proceed.

Enter Time
(:)

(Direct Entry)

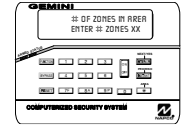
Enter Time (Press the  button to set cursor.)

Enter the current time in the format HH:MMA/P, where HH=hours (01-12); MM=minutes (00-59). Select Am or Pm by pressing any number button, then press  once again to save.

NOTE: To enter the date and time, GEM-RP1CAe2/GEM-K1CA keypad (version 6 or greater) must be used and "Enable Keypad Time/Date Display" (Address 3874) must be enabled.



KEYPAD CONFIGURATION MODE



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

KEYPAD INSTALLATION

Two types of keypads may be used with the GEM-X255: the GEM-RP1CAe2/GEM-K1CA. Each must be assigned an address number (1–15) and each requires its own configuration procedure (see CONFIGURING THE KEYPADS, which follows, and DIRECT ADDRESS KEYPAD AREA OPTIONS). At least 1 keypad must be used; only 1 is required for a single-area Commercial Burglary installation.

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

CONFIGURING THE KEYPADS

A total of up to 7 keypads may be connected to the panel.

Configuring the GEM-RP1CAe2/GEM-K1CA Keypad

Each GEM-RP1CAe2/GEM-K1CA keypad must be configured for (a) keypad tactile beep; (b) entry sounder; (c) keypad address; (d) compatibility number; (e) EZM address; and (f) zone response.

To enter the Keypad Configuration Mode:

1. Move jumper JP1 (located in the center of the control panel board) from Pins 1-2 (top two) to Pins 2-3 (bottom two). **NOTE:** See Wiring Diagram on page 72.
2. After about 15 seconds, the display will read "XX OUT OF SYSTEM", where XX indicates the keypad address.
3. Press **1** **1** **1** **2** **3** **MENU** and proceed as follows. (Repeat the following procedure for all keypads).



Keypad Tactile Beep

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



Entry Sounder

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



Keypad Address

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

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

Only Keypad No. 1 may be used for programming.

To assign the keypad number, proceed as follows:

1. Enter the assigned keypad number 01–15, then press **SAVE** to save. A valid number will be acknowledged by a short beep; an invalid number will be rejected by a long beep.
2. Press **MENU** to continue or press **RESET** to exit.



Compatibility Number



A 4-digit Compatibility Number, if programmed, will restrict this keypad to work on a panel programmed with a matching number.

1. Enter a 4-digit number
2. Press  to save. Press the  button to continue or press the  button to exit.



EZM Address


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

Workbook) similar to its keypad address. If no other EZMs are to be used, designate the keypad as Group "01" at the "EZM ADDRESS 00" display. In multiple-EZM systems, enter an assigned group number "01" through "22". (Each EZM must have a unique assigned group number, starting with "01" and proceeding consecutively.) Press the  button to continue or press the  button to exit.




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 .

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 .




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



Program Control Message

A code-keypad association can be programmed such that when the code is entered at a specific keypad, a PGM Lug will be activated for 7 seconds, and a selected message will be displayed on this keypad. Six different program control messages can be selected (0-6) as displayed in the following table:

Program Control Message	
0	(No Message)
1	**Enter Now**
2	Door Control
3	Gate Control
4	Light Control
5	Control #1
6	Control #2

1. Enter a message number
2. Press  to save.
3. Press the  button to continue (the display will loop back through selections, for changes) or press the  button to exit the Keypad Configuration Mode (display will read "01 OUT OF SYSTEM").
4. Replace Jumper JP1 across Pins 1-2 (top two).

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GEM-X255 WIRING DIAGRAM

GEMINI GEM-X255 / X255M WIRING DIAGRAM

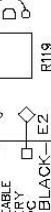
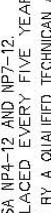
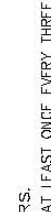
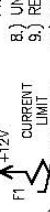
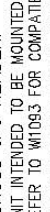
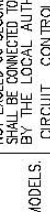
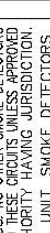
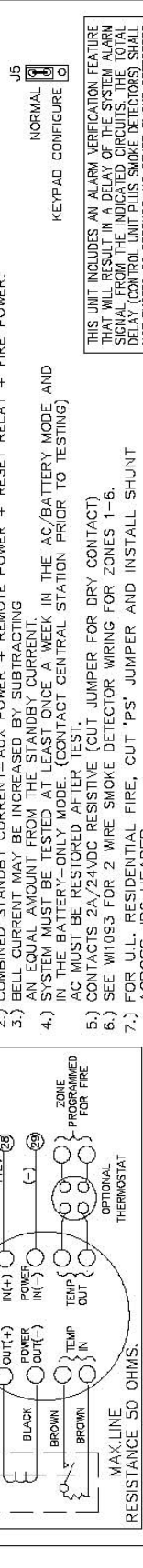
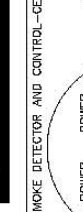
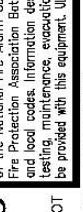
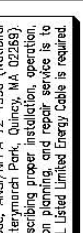
NAPCO SECURITY SYSTEMS, INC
AMITYVILLE, N.Y. 11701



This equipment should be installed in accordance with Chapter 2 of the National Fire Alarm Code, NFPA 72-1996 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02289), and local codes. Information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment. U.S. Listed Limited Energy Code is required.

(REFER TO OPERATION AND INSTALLATION INSTRUCTIONS W1093.)

- 1.) END-OF-LINE RESISTORS, 2200 OHMS, RED, RED, 5% 1/2W. (EOL 2.2K) ALSO INSTALLED IF ZONE NOT USED IN PANEL OR E2M. (INCLUDING FIRE AND PANIC), DO NOT INSTALL EOL RESISTOR ON FIRE ZONE IF USING FT2200 EOL RELAY.
- 2.) COMBINED STANDBY CURRENT=AUX POWER + REMOTE POWER + FIRE RELAY + FIRE POWER.
- 3.) BELL CURRENT MAY BE INCREASED BY SUBTRACTING EQUAL AMOUNT FROM THE STANDBY CURRENT.
- 4.) SYSTEM MUST BE TESTED AT LEAST ONCE A WEEK IN THE AC/BATTERY MODE AND IN THE BATTERY ONLY MODE (CONTACT CENTRAL STATION PRIOR TO TESTING). AC MUST BE RESTORED AFTER TEST.
- 5.) CONTACTS 2A, 24VDC RESISTIVE (CUT JUMPER FOR DRY CONTACT)
- 6.) SEE W1093 FOR 2 WIRE SMOKE DETECTOR WIRING FOR ZONES 1-6.
- 7.) ACROSS JP6 HEADER.
- 8.) UNIT INTENDED TO BE MOUNTED ON THE WALL VERTICALLY
- 9.) REFER TO W1093 FOR COMPATIBLE TWO WIRE SMOKE DETECTORS. DO NOT MIX DIFFERENT MODELS.
- 10.) RECOMMENDED BATTERIES: YUASA NP4-12 AND NP7-12. BATTERIES MUST BE REPLACED EVERY FIVE YEARS.
- 11.) THIS PANEL SHALL BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST ONCE EVERY THREE YEARS.
- 12.) AUX. POWER AND FIRE POWER VOLTAGE RATING 12.5VDC TO 11.7VDC.
- 13.) FOR SUPERVISION PROGRAM 'SUPERVISED BELL OUTPUT'
- 14.) THIS PANEL SUPPORTS ONLY ONE SMOKE DETECTOR IN ALARM FOR EACH ZONE.
- 15.) CUT TO DISABLE BELL SUPERVISION. DO NOT CUT IN U.L. INSTALLATIONS.



RESIDENTIAL AND COMMERCIAL BURGLARY/ALARM CURRENT CHART	PANEL STANDBY TIME	ALARM CURRENT	STANDBY/ALARM CURRENT CHART
BATTERY STANDBY	4 AH	750mA	4 HOURS
BATTERY STANDBY	7 AH	750mA	5 HOURS

RESIDENTIAL FIRE AND COMBINATION RESIDENTIAL BURGLARY AND FIRE	PANEL STANDBY TIME	ALARM CURRENT	STANDBY/ALARM CURRENT CHART
BATTERY STANDBY	7 AH	150mA (3)	24 HOURS
BATTERY STANDBY	7 AH	650mA (3)	24 HOURS

RESIDENTIAL AND COMMERCIAL BURGLARY/ALARM CURRENT CHART	PANEL STANDBY TIME	ALARM CURRENT	STANDBY/ALARM CURRENT CHART
BATTERY STANDBY	4 AH	750mA	4 HOURS
BATTERY STANDBY	7 AH	750mA	5 HOURS

RESIDENTIAL FIRE AND COMBINATION RESIDENTIAL BURGLARY AND FIRE	PANEL STANDBY TIME	ALARM CURRENT	STANDBY/ALARM CURRENT CHART
BATTERY STANDBY	7 AH	150mA (3)	24 HOURS
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RESIDENTIAL AND COMMERCIAL BURGLARY/ALARM CURRENT CHART	PANEL STANDBY TIME	ALARM CURRENT	STANDBY/ALARM CURRENT CHART
BATTERY STANDBY	4 AH	750mA	4 HOURS
BATTERY STANDBY	7 AH	750mA	5 HOURS

RESIDENTIAL FIRE AND COMBINATION RESIDENTIAL BURGLARY AND FIRE	PANEL STANDBY TIME	ALARM CURRENT	STANDBY/ALARM CURRENT CHART
BATTERY STANDBY	7 AH	150mA (3)	24 HOURS
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RESIDENTIAL AND COMMERCIAL BURGLARY/ALARM CURRENT CHART	PANEL STANDBY TIME	ALARM CURRENT	STANDBY/ALARM CURRENT CHART
BATTERY STANDBY	4 AH	750mA	4 HOURS
BATTERY STANDBY	7 AH	750mA	5 HOURS

RESIDENTIAL FIRE AND COMBINATION RESIDENTIAL BURGLARY AND FIRE	PANEL STANDBY TIME	ALARM CURRENT	STANDBY/ALARM CURRENT CHART
BATTERY STANDBY	7 AH	150mA (3)	24 HOURS
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RESIDENTIAL AND COMMERCIAL BURGLARY/ALARM CURRENT CHART	PANEL STANDBY TIME	ALARM CURRENT	STANDBY/ALARM CURRENT CHART
BATTERY STANDBY	4 AH	750mA	4 HOURS
BATTERY STANDBY	7 AH	750mA	5 HOURS

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