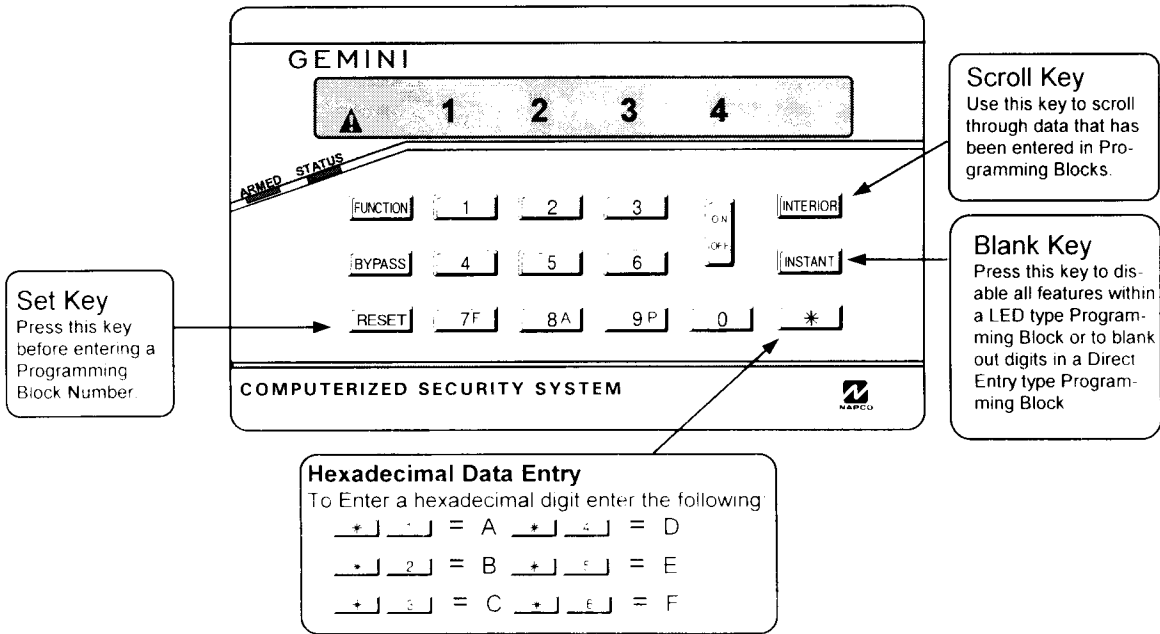


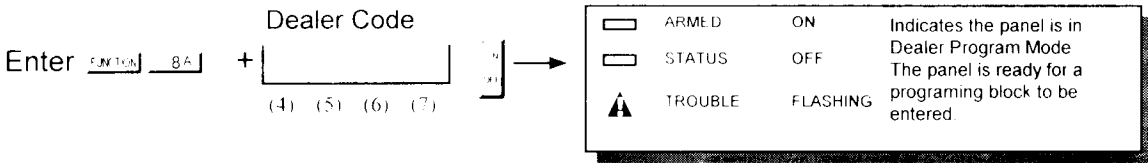


GEM-P400 Programming Instructions

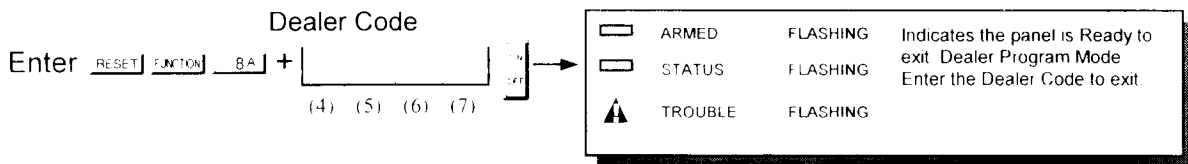
DEALER PROGRAM MODE - KEYPAD KEY DEFINITION



Entering Dealer Program Mode



Exiting Dealer Program Mode



Note: After 15 minutes of keypad inactivity the keypad will emit a steady tone indicating the panel has been left in Dealer Program Mode. Enter Dealer Code to exit or press the **RESET** key to return to Dealer Program mode.

Types of Programming Blocks

LED Programming Block

Enable features by pressing the Zone LED number associated with the feature; the LED will turn ON. To disable a feature press the key again; the LED will turn OFF. To disable all features within a LED Type Programming Block use the **INSTANT** key; all LEDs will turn OFF.

① LED Programming Block Example

Program zones 2 and 3 as *Follower Zones*.

1. To Enter Programming Block 02, press

RESET (Beep) **0** **2** (Beep)

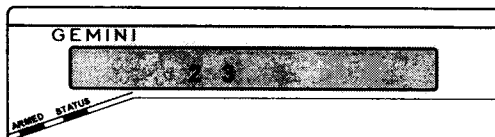
2. Press the **2** key to select zone 2.

3. Press the **3** key to select zone 3.

02 Follower Zones	
Default	
OFF	<input type="checkbox"/> Zone 1
OFF	<input checked="" type="checkbox"/> Zone 2
OFF	<input checked="" type="checkbox"/> Zone 3
OFF	<input type="checkbox"/> Zone 4

LED Type Programming Block

Zone 2 and Zone 3 LEDs are ON indicating that zones 2 and 3 have been programmed as follower zones.



Direct Entry Programming Block

Enter data directly. For hexadecimal entries of A-F, use the ***** key + 1-6 keys, respectively. Use the **INSTANT** key to blank out digits in Direct Entry type programming blocks. Default values are shown in parentheses.

① Direct Entry Programming Example 1

Program the panel for a 60 second *Exit Delay*

1. Press **RESET** (Beep) **1** **0** (Beep)

2. Press **0** **6** **0**

10 Exit Delay			
<input type="text" value="0"/>	<input type="text" value="6"/>	<input type="text" value="0"/>	Exit Delay, seconds
(0)	(4)	(5)	Maximum Entry 255

Direct Entry Type Programming Block

② Direct Entry Programming Example 2 (Hexadecimal data entry)

Program *Telephone Prefix Number* with a 9E.

1. Press **RESET** (Beep) **4** **4** (Beep)

2. Press **9 P**

3. Press *****

4. Press **5**

44 Dialing Prefix			
<input type="text" value="9"/>	<input type="text" value="E"/>	<input type="text"/>	<input type="text"/>

	ARMED	OFF	Indicates the panel is in Dealer Program Mode and the next digit entered will be interpreted as a Hexadecimal digit. Valid entries are 1-6 (A-F).
	STATUS	FLASHING	
	TROUBLE	FLASHING	

Viewing Data in Programming Blocks

To view data within a programming Block enter the Program Block Number, then press the **INTERCOM** key, continue pressing the **INTERCOM** key until all digits within the Programming Block have been viewed. Data will be displayed in the binary format shown in the table below:

Value	Data Displayed	Value	Data Displayed
*0/Blank		8	
1		9	
2		*A/0	
3		B	
4		C	
5		D	
6		E	
7		F	

* **Note:** In the following Programming Blocks data that has been entered as a '0' will be displayed as an 'A'.
Subscriber ID Numbers, Phone Numbers, Pager Leading and Trailing digits and report codes

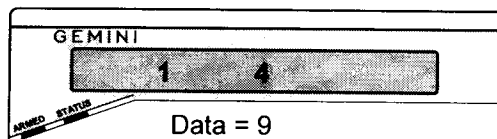
Zone #	Bit Value
1	1
2	2
3	4
4	8

Example: Viewing the Dialing Prefix

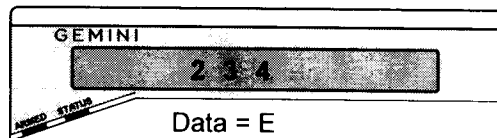
A Dialing Prefix of 9E has been programmed at Programming Block Number 44 (outside access number). Follow the steps below to view the data:

→ 44 Dialing Prefix 9 E

- 1 Press **RESET** **4** **4** to enter Programming Block 44. The 1st digit of Programming Block 44 is displayed.



- 2 Press the **INTERCOM** key to view the 2nd digit.



For Technical Assistance, Contact the Napco Toll Free Helpline (800) 645-9440

Zone Features

00 Exit/Entry

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4

05 Loop Response 40 ms

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4

01 Home/Away with Delay

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4

06 Open Circuit

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4

02 Exit/Entry Follower

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4

07 Burg (Steady) Output

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4

03 Auto-Bypass Reentry

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4

08 PGM Output

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4

04 24-Hour Protection

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4

System Times

10 Exit Delay

Exit Delay, seconds
 (0) (4) (5) Maximum Entry 255

11 Entry Delay

Entry Delay, seconds
 (0) (3) (0) Maximum Entry 255

12 Burg (Steady) Output Time-out

Bell Time-out, minutes
 (0) (0) (5) Maximum Entry 255

14 Test Timer Interval

Test Timer, days
 (0) (0) (1) Maximum Entry 255

15 Line Cut Time-to-Fail (Disabled =000)

Line Cut Time-to-Fail, seconds
 (0) (0) (0) **Enable Feature** - Valid Entries 10 - 255

16 Wireless Supervisory Timer

Supervisory Timer, hours
 (1) (2) Maximum Entry 26

13 Reserved

System Features

20 Keypad Features

Default
 OFF Zn 1 LED ON = Keypad Panic 2 ()
 OFF Zn 2 LED ON = Keypad AUX ()
 ON Zn 3 LED ON = Keypad Panic ()
 OFF Zn 4 LED ON = Ambush (8th User Code)

21 Keypad Features

Default
 ON Zn 1 LED ON = Audible panic
 OFF Zn 2 LED ON = Exit/Entry with Urgency
 ON Zn 3 LED ON = Display Bypass (ARMED)
 OFF Zn 4 LED ON = Reserved

22 Miscellaneous Features

Default
 OFF Zn 1 LED ON = Abort Delay
 ON Zn 2 LED ON = Easy Exit ()
 ON Zn 3 LED ON = Swinger Shutdown
 OFF Zn 4 LED ON = Bell on Line Cut (Armed)

23 PGM Features

Default
 OFF Zn 1 LED ON = Audio Verification
 OFF Zn 2 LED ON = Access Output ()
 OFF Zn 3 LED ON = Follow Keypad Sounder
 OFF Zn 4 LED ON = Key Fob Chirp

24 PGM Features

Default
 OFF Zn 1 LED ON = Panic 2
 OFF Zn 2 LED ON = AUX
 OFF Zn 3 LED ON = Panic
 OFF Zn 4 LED ON = Test Timer

25 PGM Features

Default
 OFF Zn 1 LED ON = AC Fail
 OFF Zn 2 LED ON = Low Battery
 OFF Zn 3 LED ON = Reserved
 OFF Zn 4 LED ON = Armed

Telephone Number 1 Programming

30 Subscriber ID Number

31 Telephone Number 1

Note: A fixed Dial Tone Detection (E) is included prior to the *Dialing Prefix* (Block Number 44). Programming an E is not required for Telco 1, Telco 2 and Telco 3. If dial tone detection is not desired select *No Dial Tone Detection* in Communicator Features (Block Number 46). Program a D if a 4 second delay is required.

32 Receiver Format

- [1] Ademco Slow
 - [2] Radionics Slow
 - [3] Silent Knight Fast
 - [4] Universal High Speed
 - [5] Reserved
 - [6] Point ID
 - [7] Pager
- (4)

36 System Reporting, Telco 1

- Default**
- Zn 1 LED ON = Keypad Panic 2 (7F *)
 - Zn 2 LED ON = Keypad AUX (8A *) / Ambush
 - Zn 3 LED ON = Keypad Panic (9P *)
 - Zn 4 LED ON = Test Timer

33 Receiver Options

- Default**
- Zn 1 LED ON = 2300 Hz Handshake/Kissoff
 - Zn 2 LED ON = Sumcheck
 - Zn 3 LED ON = Single Digit
 - Zn 4 LED ON = No Handshake/Pager Extend

37 System Reporting, Telco 1

- Default**
- Zn 1 LED ON = AC Fail Report
 - Zn 2 LED ON = Low Battery Report
 - Zn 3 LED ON = Reserved
 - Zn 4 LED ON = Reserved

34 Zone Report, Telco 1

- Default**
- Zone 1
 - Zone 2
 - Zone 3
 - Zone 4

38 System Restores, Telco 1

- Default**
- Zn 1 LED ON = AC Restore Report
 - Zn 2 LED ON = Battery Restore Report
 - Zn 3 LED ON = Reserved
 - Zn 4 LED ON = Reserved

35 Zone Restore, Telco 1

- Default**
- Zone 1
 - Zone 2
 - Zone 3
 - Zone 4

39 Opening Closing Report, Telco 1

- Default**
- Zn 1 LED ON = User 1 Reporting
 - Zn 2 LED ON = User 2 Reporting
 - Zn 3 LED ON = User 3 Reporting
 - Zn 4 LED ON = User 4 Reporting

Backup Telephone Number Programming

40 Subscriber ID Number (Telephone Number 2)

41 Telephone Number 2

Note: A fixed Dial Tone Detection (E) is included prior to the *Dialing Prefix* (Block Number 44). Programming an E is not required for Telco 1, Telco 2 and Telco 3. If dial tone detection is not desired select *No Dial Tone Detection* in Communicator Features (Block Number 46). Program a D if a 4 second delay is required.

42 Receiver Format

- [1] Ademco Slow
- [2] Radionics Slow
- [3] Silent Knight Fast
- [4] Universal High Speed
- [5] Reserved
- [6] Point ID
- [7] Pager

(4)

43 Receiver Options

Default

- Zn 1 LED ON = 2300 Hz Handshake/Kissoff
- Zn 2 LED ON = Sumcheck
- Zn 3 LED ON = Single Digit
- Zn 4 LED ON = No Handshake

Communicator Features

44 Dialing Prefix

Note: Dialing Prefix for Telco 1, Telco 2 & Telco 3.

45 Communicator Features

Default

- Zn 1 LED ON = Communicator Enabled
- Zn 2 LED ON = DTMF w/ Rotary Back up
- Zn 3 LED ON = DTMF only
- Zn 4 LED ON = Backup to Telco 2

46 Communicator Features

Default

- Zn 1 LED ON = No Dial Tone Detection
- Zn 2 LED ON = 2:1 Rotary Dialing
- Zn 3 LED ON = Reserved
- Zn 4 LED ON = Reserved

Telephone Number 3 Programming

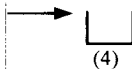
50 Subscriber ID Number

51 Telephone Number 3

Note: A fixed Dial Tone Detection (E) is included prior to the *Dialing Prefix* (Block Number 44). Programming an E is not required for Telco 1, Telco 2 and Telco 3. If dial tone detection is not desired select *No Dial Tone Detection* in Communicator Features (Block Number 46). Program a D if a 4 second delay is required.

52 Receiver Format

- [1] Ademco Slow
- [2] Radionics Slow
- [3] Silent Knight Fast
- [4] Universal High Speed
- [5] Reserved
- [6] Point ID
- [7] Pager



56 System Reporting, Telco 3

Default

- OFF Zn 1 LED ON = Keypad Panic 2 (7 *)
- OFF Zn 2 LED ON = Keypad AUX (8 *)/Ambush
- OFF Zn 3 LED ON = Keypad Panic (9 *)
- OFF Zn 4 LED ON = Test Timer

53 Receiver Options

Default

- ON Zn 1 LED ON = 2300 Hz Handshake/Kissoff
- OFF Zn 2 LED ON = Sumcheck
- OFF Zn 3 LED ON = Single Digit
- OFF Zn 4 LED ON = No Handshake/Pager Extend

57 System Reporting, Telco 3

Default

- OFF Zn 1 LED ON = AC Fail Report
- OFF Zn 2 LED ON = Low Battery Report
- OFF Zn 3 LED ON = Reserved
- OFF Zn 4 LED ON = Reserved

54 Zone Report, Telco 3

Default

- OFF Zone 1
- OFF Zone 2
- OFF Zone 3
- OFF Zone 4

58 System Restores, Telco 3

Default

- OFF Zn 1 LED ON = AC Restore Report
- OFF Zn 2 LED ON = Battery Restore Report
- OFF Zn 3 LED ON = Reserved
- OFF Zn 4 LED ON = Reserved

55 Zone Restore, Telco 3

Default

- OFF Zone 1
- OFF Zone 2
- OFF Zone 3
- OFF Zone 4

59 Opening Closing Report, Telco 3

Default

- OFF Zn 1 LED ON = User 1 Reporting
- OFF Zn 2 LED ON = User 2 Reporting
- OFF Zn 3 LED ON = User 3 Reporting
- OFF Zn 4 LED ON = User 4 Reporting

Report Codes

60 Zone Report Codes

- Zone 1 Alarm Code
(3)
- Zone 2 Alarm Code
(3)
- Zone 3 Alarm Code
(3)
- Zone 4 Alarm Code
(3)

Note: The second digit of the *Report Code* is the zone number of the zone that is reporting. For example zone 5 report code (default of 3) would be 35.

63 System Report Codes

- Keypad Panic 2 (7 *)
(1) (1)
- Keypad AUX (8 *)
(2) (3)
- Keypad Panic (9 *)
(2) (1)
- Test Timer
(F) (F)
- AC Fail
(F) (9)
- Low Battery
(F) (8)

61 Point ID Report Codes

- Zone 1 Alarm Code
(3)
- Zone 2 Alarm Code
(3)
- Zone 3 Alarm Code
(3)
- Zone 4 Alarm Code
(3)

- 1 RESERVED
- 2 PANIC
- 3 BURGLARY
- 4 HOLDUP
- 5 GENERAL ALARM
- 6 RESERVED
- 7 GAS ALARM
- 8 HEAT ALARM
- 9 RESERVED
- A AUXILIARY
- B 24 HOUR ALARM



64 System Restore Code

- (AC Restore, Battery Restore)
(E)

65 Opening and Closing Codes

- Closing Code
(C)
- Opening Code
(B)

66 Ambush Report Code

- Ambush Code
(2) (2)

62 Zone Restore Code

- Zone 1, 2, 3 & 4 Restore Code
(1)

Wireless

Transmitters

RF ID #

Point

71	Zone 1	:	
72	Zone 2	:	
73	Zone 3	:	
74	Zone 4	:	

Enter the RF ID# located on the wireless transmitters and Key Fob labels.



Key Fobs

RF ID #

AUX 1 AUX 2

81	Key Fob 1	:		
82	Key Fob 2	:		

AUX 1 & 2 Programming

- 1 Panic
- 2 AUX
- 3 Bell ON
- 4 PGM
- 5 Instant
- 6 Access on PGM

Programming Example
 Map point 2 of a window door transmitter, with RF ID# 0012B0:0 to Zone 3.

- 1 Enter Dealer Mode.
- 2 Enter **#** (beeps) **7** **3** (beeps)
- 3 Enter **0** **0** **1** **2** ***** **2** **0** **0**
- 4 Enter **2** (beeps) ↑
 Hexadecimal B Entry

Note: If the RF ID# in step 3 is not entered correctly the keypad will emit a 1 second tone indicating incorrect entry. Repeat steps 2 - 4 above.

Hexadecimal Data Entry
 To Enter a hexadecimal digit enter the following:

*	1	= A
*	2	= B
*	3	= C
*	4	= D
*	5	= E
*	6	= F

Downloading

90 **Callback Telephone Number**

91 **Ring Count**

(0) (9) Maximum Entry 15

92 **Downloading Features**

Default

Zn 1 LED ON = Ring Method

Zn 2 LED ON = Answering Machine override

Zn 3 LED ON = Function 6 Download

Zn 4 LED ON = Reserved

Dealer Programming

94 **Dealer Code**

(4) (5) (6) (7)

95 **User 1 Code**

(1) (2) (3) (4)

96 **Dealer Options**

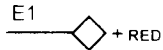
Default

Zn 1 LED ON = Dealer Code Lockout

Zn 2 LED ON = User 1 Code Lockout

Zn 3 LED ON = Reserved

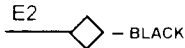
Zn 4 LED ON = Reserved



RECHARGEABLE
BATTERY
12 VDC 4AH

GEM-P400 WIRING DIAGRAM

(REFER TO INSTALLATION INSTRUCTIONS WI879)

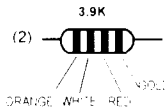
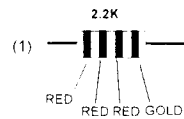


RESIDENTIAL BURG (4 HOUR STANDBY)

COMBINED STANDBY = 250 mA BELL = 2.0 AMP

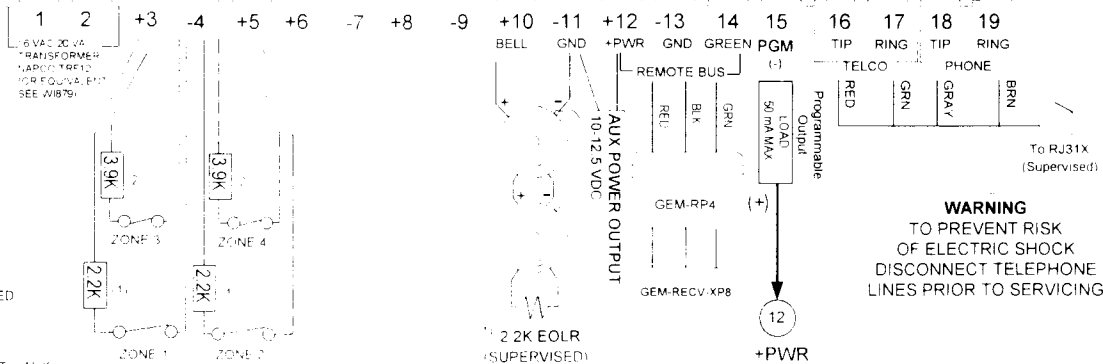
COLD WATER GROUND
CONNECTION
USE ONLY COLD WATER
PIPE OR BURIED GROUND
ROD - USE AT LEAST #16
AWG WIRE

NOT USED



(3) ALL ZONE RESISTORS MUST BE INSTALLED
EVEN IF ZONE IS NOT USED

(4) COMBINED STANDBY = KEYPAD CURRENT + AUX
POWER CURRENT



ALL OUTPUTS ARE CURRENT LIMITED

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