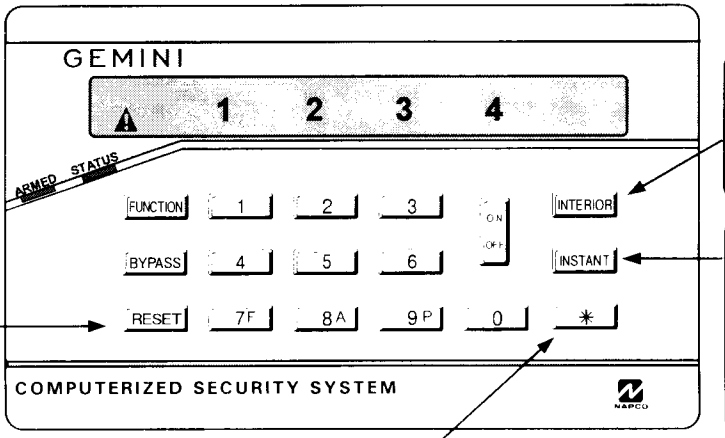
GEM-P400 Programming Instructions

DEALER PROGRAM MODE - KEYPAD KEY DEFINITION



Scroll Key
Use this key to scroll through data that has been entered in Programming Blocks.

Blank Key
Press this key to disable all features within a LED type Programming Block or to blank out digits in a Direct Entry type Programming Block

Set Key
Press this key before entering a Programming Block Number

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

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

Entering Dealer Program Mode

Enter FUNCTION 8A + Dealer Code (4) (5) (6) (7) ON/OFF →

ARMED	ON	Indicates the panel is in Dealer Program Mode The panel is ready for a programing block to be entered.
STATUS	OFF	
TROUBLE	FLASHING	

Exiting Dealer Program Mode

Enter RESET FUNCTION 8A + Dealer Code (4) (5) (6) (7) ON/OFF →

ARMED	FLASHING	Indicates the panel is Ready to exit Dealer Program Mode Enter the Dealer Code to exit.
STATUS	FLASHING	
TROUBLE	FLASHING	

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

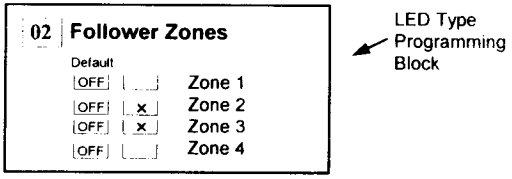
LED Programming Block

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.

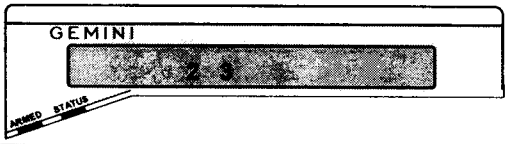
① LED Programming Block Example

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.



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



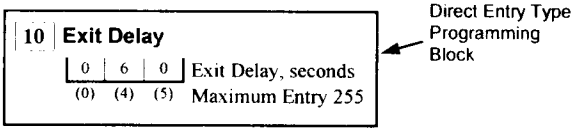
Direct Entry Programming Block

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*

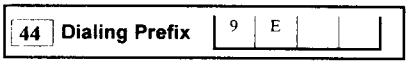
1. Press [RESET](Beep)[1][0](Beep)
2. Press [0][6][0]

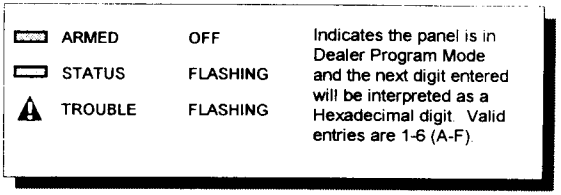


② Direct Entry Programming Example 2 (Hexadecimal data entry)

Program *Telephone Prefix Number* with a 9E.

1. Press [RESET] (Beep)[4][4](Beep)
2. Press [9P]
3. Press [*]
4. Press [5]





Viewing Data in Programming Blocks

To view data within a programming Block enter the Program Block Number, then press the [INTERIOR] key, continue pressing the [INTERIOR] 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	4
1	1	9	1 4
2	2	*A/0	2 4
3	1 2	B	1 2 4
4	3	C	3 4
5	1 3	D	1 3 4
6	2 3	E	2 3 4
7	1 2 3	F	1 2 3 4

* **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*

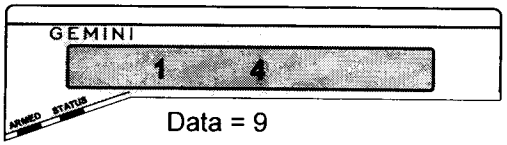
Zone #	Bit Value
1	1
2	2
3	4
4	8

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:

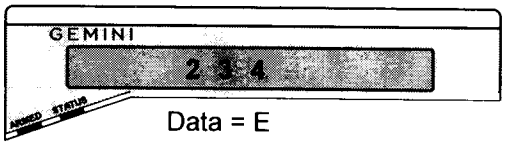
→ 44 **Dialing Prefix** 9 E

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



Data = 9

② Press the [INTERIOR] key to view the 2nd digit.



Data = E

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

Zone Features

00 Exit/Entry

Default

ON Zone 1
OFF Zone 2
OFF Zone 3
OFF Zone 4

01 Home/Away with Delay

Default

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

02 Exit/Entry Follower

Default

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

03 Auto-Bypass Reentry

Default

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

04 24-Hour Protection

Default

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

05 Loop Response 40 ms

Default

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

06 Open Circuit

Default

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

07 Burg (Steady) Output

Default

ON Zone 1
ON Zone 2
ON Zone 3
ON Zone 4

08 PGM Output

Default

ON Zone 1
ON Zone 2
ON Zone 3
ON 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

13 Reserved

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

System Features

20 Keypad Features

Default		
OFF	[ ]	Zn 1 LED ON = Keypad Panic 2 (7PRS *)
OFF	[ ]	Zn 2 LED ON = Keypad AUX (8TUV *)
ON	[ ]	Zn 3 LED ON = Keypad Panic (9WXY *)
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 (FUNCTION 0)
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 (FUNCTION 3)
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)

33 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

34 Zone Report, Telco 1

Default
- [ON] [ ] Zone 1
- [ON] [ ] Zone 2
- [ON] [ ] Zone 3
- [ON] [ ] Zone 4

35 Zone Restore, Telco 1

Default
- [OFF] [ ] Zone 1
- [OFF] [ ] Zone 2
- [OFF] [ ] Zone 3
- [OFF] [ ] Zone 4

36 System Reporting, Telco 1

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

37 System Reporting, Telco 1

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

38 System Restores, Telco 1

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

39 Opening Closing Report, Telco 1

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

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

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

Communicator Features

44 **Dialing Prefix** [| | | |]

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

45 **Communicator Features**

Default

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

46 **Communicator Features**

Default

OFF	[ ]	Zn 1 LED ON = No Dial Tone Detection
OFF	[ ]	Zn 2 LED ON = 2:1 Rotary Dialing
OFF	[ ]	Zn 3 LED ON = Reserved
OFF	[ ]	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

→ (4)

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

54 Zone Report, Telco 3

Default	
OFF	Zone 1
OFF	Zone 2
OFF	Zone 3
OFF	Zone 4

55 Zone Restore, Telco 3

Default	
OFF	Zone 1
OFF	Zone 2
OFF	Zone 3
OFF	Zone 4

56 System Reporting, Telco 3

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

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

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

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

[ ] (3) Zone 1 Alarm Code

[ ] (3) Zone 2 Alarm Code

[ ] (3) Zone 3 Alarm Code

[ ] (3) Zone 4 Alarm Code

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.

61 Point ID Report Codes

[ ] (3) Zone 1 Alarm Code

[ ] (3) Zone 2 Alarm Code

[ ] (3) Zone 3 Alarm Code

[ ] (3) Zone 4 Alarm Code

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

62 Zone Restore Code

[ ] (E) Zone 1, 2, 3 & 4 Restore Code

63 System Report Codes

[ ][ ] (1) (1) Keypad Panic 2 ([7F] [*])

[ ][ ] (2) (3) Keypad AUX ([8A] [*])

[ ][ ] (2) (1) Keypad Panic ([9P] [*])

[ ][ ] (F) (F) Test Timer

[ ][ ] (F) (9) AC Fail

[ ][ ] (F) (8) Low Battery

64 System Restore Code

[ ] (E) (AC Restore, Battery Restore)

65 Opening and Closing Codes

[ ] (C) Closing Code

[ ] (B) Opening Code

66 Ambush Report Code

[ ][ ] (2) (2) Ambush Code

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.

RF ID # XXXXXX:X

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		
ON		Zn 1 LED ON = Ring Method
ON		Zn 2 LED ON = Answering Machine override
ON		Zn 3 LED ON = Function 6 Download
OFF		Zn 4 LED ON = Reserved

Dealer Programming

94 Dealer Code

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

95 User 1 Code

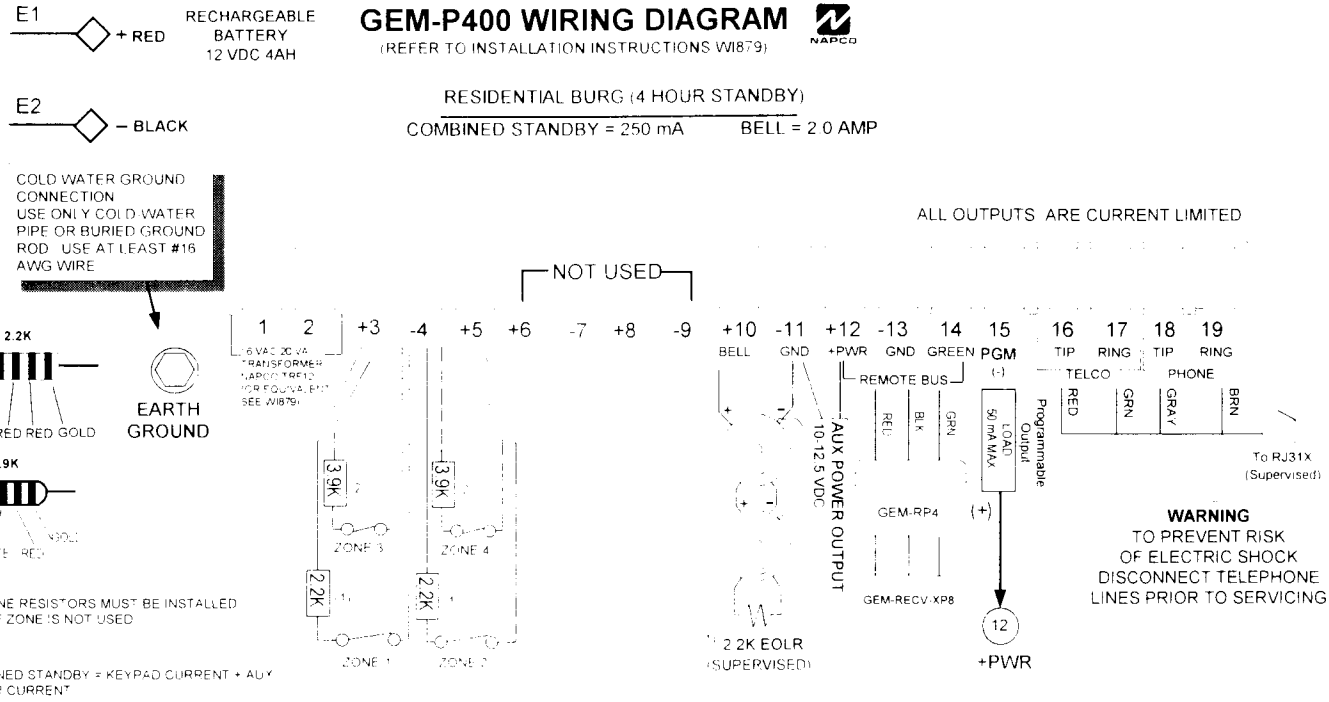
(1) (2) (3) (4)

96 Dealer Options

Default		
OFF		Zn 1 LED ON = Dealer Code Lockout
OFF		Zn 2 LED ON = User 1 Code Lockout
OFF		Zn 3 LED ON = Reserved
OFF		Zn 4 LED ON = Reserved

GEM-P400 WIRING DIAGRAM

(REFER TO INSTALLATION INSTRUCTIONS WI879)



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

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