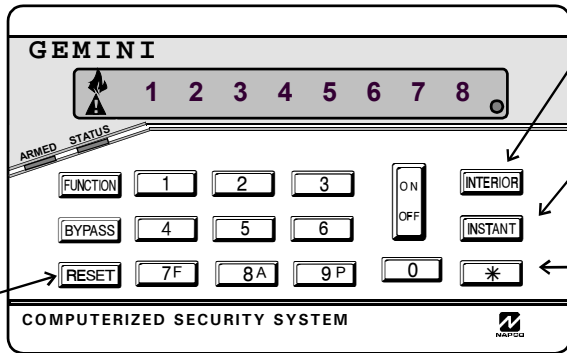




GEM-P801 Programming Instructions

Note: These Programming Instruction are intended to be used in conjunction with W11089. Please refer to W11089 for additional information, instructions and definitions.

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.

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

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

DEFAULTING THE PANEL

1. Remove power from the panel.
2. Remove all wiring from terminal 19 (PGM) and terminal 3.
3. Connect terminal 19 (PGM) to terminal 3.
4. Apply power to the GEM-P801 control panel.
5. After a few seconds the ARMED, READY and SYSTEM TROUBLE LEDs will flash.
6. The keypad will beep 3 times indicating the panel default values have been loaded.
7. Remove wiring between terminal 19 (PGM) and terminal 3.
8. Re-install original wiring for terminal 19 (PGM) and terminal 3.

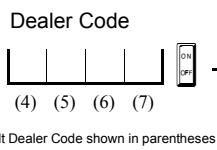
Note: Any programming in *Dealer Options 1* [96] and *Dealer Options 2* [97] will not be defaulted. If *Dealer Code Lockout* has been programmed the panel will not default the Dealer Code. The Event Log will be erased when the panel is defaulted.

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.

Set Key
Press this key before entering a Programming Block Number.

Entering Dealer Program Mode

Enter [FUNCTION] [8A]

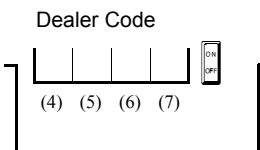


[]	ARMED	ON	Indicates the panel is in Dealer Program Mode. The panel is ready for a programming block to be entered.
[]	STATUS	OFF	
[▲]	TROUBLE	FLASHING	

NOTE:
Entering Dealer Program Mode is not permitted while the panel is Armed, Reporting, or the Bell Output is on. To Enter Dealer Mode while the Bell is ON or the panel is Reporting or Armed; power up the panel and enter Dealer Mode within the first 3 minutes. Pressing the [RESET] key clears the 3 minute timer.

Exiting Dealer Program Mode

Enter [RESET] [FUNCTION] [8A]



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

Types of Programming Blocks

LED Programming Block

Enable features by pressing the key that corresponds to the associated 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 press the **INSTANT** key; all LEDs will turn OFF.

1 LED Programming Block Example

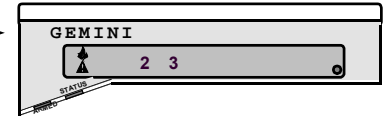
Program zones 2 and 3 as *Follower Zones*.

1. Enter Programming Block 02, by pressing **RESET** (Beep), then **0** **2** (Beep).
2. Press the **2** key to select zone 2.
3. Press the **3** key to select zone 3.

02	Exit/Entry Follower
Default	
<input type="checkbox"/> OFF	Zone 1
<input checked="" type="checkbox"/> OFF	Zone 2
<input checked="" type="checkbox"/> OFF	Zone 3
<input type="checkbox"/> OFF	Zone 4
<input type="checkbox"/> OFF	Zone 5
<input type="checkbox"/> OFF	Zone 6
<input type="checkbox"/> OFF	Zone 7
<input type="checkbox"/> OFF	Zone 8

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** through **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 Blocks

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="checkbox"/>	ARMED	OFF	Indicates the panel is in Dealer Program Mode; the next digit entered will be interpreted as a Hexadecimal digit. Valid entries are 1-6 (A-F).
<input type="checkbox"/>	STATUS	FLASHING	
<input checked="" type="checkbox"/>	TROUBLE	FLASHING	

Viewing Data in Programming

To view data within a programming block, press **[RESET]** and enter the Program Block Number to view the 1st digit of data. Press the **[INTERIOR]** key to view the 2nd digit and continue pressing **[INTERIOR]** until all digits within the 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.

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

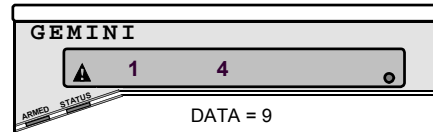
Zone #	Bit Value
1	1
2	2
3	4
4	8

Example: Viewing the Dialing Prefix

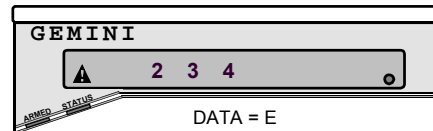
A Dialing Prefix of 9E has been programmed at Programming Block Number 44 (outside access number). Follow the steps below to view the data:

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



NOTE:
The Following Programming Options are not permitted for UL installations: [05], [06], [23-2], [26-3] and [26-4].
The symbol by a programming Block indicates the programming option is not permitted for UL installations.

NOTE:
For information about programming blocks refer to GEM-P801 Installation Manual WI1089.

Zone Features

00 Exit/Entry Zones

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6
 Zone 7
 Zone 8

03 Auto Bypass Reentry Zones

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6
 Zone 7
 Zone 8

06 Disable EOL Resistor

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6

09 Selective Bypass

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6
 Zone 7
 Zone 8

01 Home/Away with Delay Zones

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6
 Zone 7
 Zone 8

04 24 Hour Protection Zones

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6
 Zone 7
 Zone 8

07 Burg (Steady) Output

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6
 Zone 7
 Zone 8

02 Exit/Entry Follower Zones

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6
 Zone 7
 Zone 8

05 40 ms Loop Response Zones

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6

08 Programmable Output (PGM)

Default

Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5
 Zone 6
 Zone 7
 Zone 8

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 Fire (Pulsed) Output Time-out

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

14 Test Timer Interval

Test Timer/Line Test, days
(0) (0) (0) Maximum Entry 255

System Times

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

*See Note 4

17 Wireless Smoke Supervisory Timer

Smoke Supervisory Timer, hours

(8) Maximum Entry 8

18 Test Timer Offset

Test Timer, hours

(1) (2) Maximum Entry 23

29 Chime Time

Chime Time, 1/4 seconds

(4) Valid Entries 2-9

System Features

20 Keypad Features 1

Default

OFF Zn 1 LED ON = *Keypad Fire ()

OFF Zn 2 LED ON = *Keypad AUX ()

ON Zn 3 LED ON = *Keypad Panic ()

OFF Zn 4 LED ON = *Ambush (8th User Code)

*See Note 1

21 Keypad Features 2

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 = Disable Code Entry Beeps

22 Miscellaneous Features 1

Default

OFF Zn 1 LED ON = Abort Delay

ON Zn 2 LED ON = Easy Arm/Easy Exit

ON Zn 3 LED ON = Swinger Shutdown

OFF Zn 4 LED ON = Bell on Line Cut (Armed)

23 Programmable Output (PGM) Features 1

Default

OFF Zn 1 LED ON = Audio Verification

Zn 2 LED ON = *Access Output ()

OFF Zn 3 LED ON = *Follow Keypad Sounder

OFF Zn 4 LED ON = Keyfob/Keyswitch Bell

*See Note 2

NOTE 1:

Additional programming required for reporting, see Blocks [36]&[56].

UL Installations: If Keypad Fire [20-1] is enabled, the keypad must be mounted within (3) three feet from the Control Panel.

NOTE 2:

Cannot be programmed with any other Programmable Output (PGM) Feature.

24 Programmable Output (PGM) Features 2

Default

OFF Zn 1 LED ON = Fire

OFF Zn 2 LED ON = AUX

OFF Zn 3 LED ON = Panic

OFF Zn 4 LED ON = Test Timer

25 Programmable Output (PGM) Features 3

Default

OFF Zn 1 LED ON = AC Fail

OFF Zn 2 LED ON = Low Battery

OFF Zn 3 LED ON = *Trouble

OFF Zn 4 LED ON = Armed

*See Note 3

26 Miscellaneous Features 2

Default

OFF Zn 1 LED ON = Momentary Keyswitch

OFF Zn 2 LED ON = Reserved

Zn 3 LED ON = Inhibit Fail to Communicate

Zn 4 LED ON = Inhibit Low Battery Display

27 Miscellaneous Features 3

Default

OFF Zn 1 LED ON = Keyswitch Polarity

OFF Zn 2 LED ON = Reserved

OFF Zn 3 LED ON = Reserved

OFF Zn 4 LED ON = Reserved

NOTE 3:

Includes Bell Cut, Fire Trouble, Receiver Fail-to-Respond, Receiver Tamper, Receiver JAM, Transmitter Low Battery, Transmitter Supervisory Failure, Wireless Smoke Low Battery and Wireless Smoke Supervisory Failure.

NOTE 4:

UL Installations: Block 16, Wireless Supervisory Timer must be set 10 hours.

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)

Zone 5 Alarm Code

(3)

Zone 6 Alarm Code

(3)

Zone 7 Alarm Code

(3)

Zone 8 Alarm Code

(3)

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)

Zone 5 Alarm Code

(3)

Zone 6 Alarm Code

(3)

Zone 7 Alarm Code

(3)

Zone 8 Alarm Code

(3)

NOTE:

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

- 1 FIRE
- 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

Note: See page 11 for complete listing of Point ID report codes.

62 Zone Codes

Zone 1, 2, 3, 4, 5, 6, 7 & 8 Restore Code

(E)

Zone 1, 2, 3, 4, 5, 6, 7 & 8 Trouble Code

(F)

63 System Report Codes

Keypad Fire (7F*)

(1) (1)

Keypad AUX (8A*)

(2) (3)

Keypad Panic (9P*)

(2) (1)

Test Timer

(F) (F)

AC Fail

(F) (9)

Low Battery

(F) (8)

*Trouble

(F) (1)

Fire

(1) (1)

*See Note 1

64 System Restore Code

(E)

NOTE 1:

Includes Bell Cut, Fire Trouble, Receiver Fail-to-Respond, Receiver Tamper, Receiver JAM, Transmitter Low Battery, Transmitter Supervisory Failure, Wireless Smoke Low Battery and Wireless Smoke Supervisory Failure.

65 Opening and Closing Code

(C) Closing Code

(B) Opening Code

66 Ambush Report Code

(2) (2)

Enhanced Communicator Features

67 Telephone Number 1

Default

OFF|Zn 1 LED ON = Opening after Alarm (Cancel Code)

OFF|Zn 2 LED ON = Conditional Closing

OFF|Zn 3 LED ON = Reserved

OFF|Zn 4 LED ON = Reserved

68 Telephone Number 3

Default

OFF|Zn 1 LED ON = Opening after Alarm (Cancel Code)

OFF|Zn 2 LED ON = Conditional Closing

OFF|Zn 3 LED ON = Reserved

OFF|Zn 4 LED ON = Reserved

Wireless

Transmitters

	RF ID #	Point
71 Zone 1	:	
72 Zone 2	:	
73 Zone 3	:	
74 Zone 4	:	
75 Zone 5	:	
76 Zone 6	:	
77 Zone 7	:	
78 Zone 8	:	

Enter the RF ID# located on the Transmitter, Key Fob and Smoke Detector labels.



Enter the point number to be associated with the zone. If only one point of GEM-TRANS2 is used, enter a 1 in this location. For GEM-GB, GEM-DT, GEM-PIR enter a 1 in this location.

Programming Example

Map point 1 of a window door transmitter, with RF ID# 0012B0:0 to Zone 3.

73 Zone 3 0 | 0 | 1 | 2 | B | 0 | : | 0 1

1. Enter Dealer Mode.
2. Enter **RESET** (beeps) **7F** **3** (beeps)
3. Enter **0** **0** **1** **2** ***** **2** **0** **0**
4. Enter **1** (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.

Keyfobs

	RF ID #	AUX 1	AUX 2
81 Keyfob 1	:		
82 Keyfob 2	:		
83 Keyfob 3	:		
84 Keyfob 4	:		

AUX 1 & 2 Programming

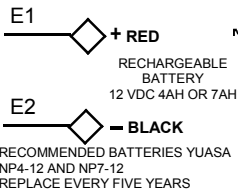
- 1 Panic
- 2 AUX
- 3 Bell ON
- 4 PGM
- 5 Instant
- 6 Access on PGM
- 7 Full Set System
- 8 Interior

Smoke Detectors

	RF ID #
85 Smoke 1	:
86 Smoke 2	:
87 Smoke 3	:
88 Smoke 4	:

Hexadecimal Data Entry

To Enter a hexadecimal digit enter the following: A = * 1 B = * 2 C = * 3 D = * 4 E = * 5 F = * 6



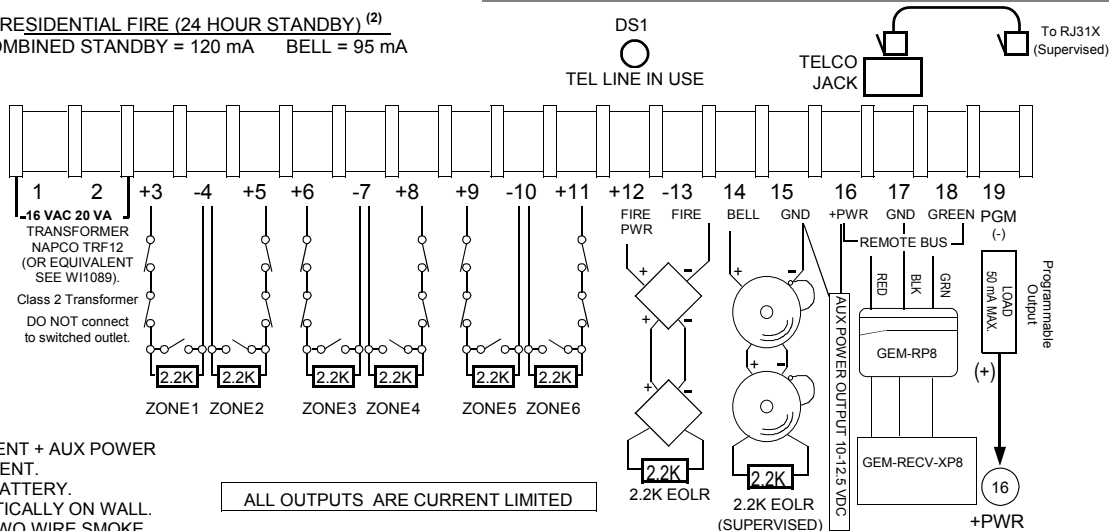
GEM-P801 WIRING DIAGRAM

(REFER TO INSTALLATION INSTRUCTIONS W11089)

RESIDENTIAL BURG (4 HOUR STANDBY)
COMBINED STANDBY = 500 mA BELL = 2.0 A

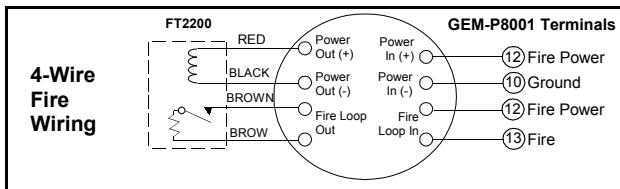
RESIDENTIAL FIRE (24 HOUR STANDBY) ⁽²⁾
COMBINED STANDBY = 120 mA BELL = 95 mA

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



- (1) COMBINED STANDBY = KEYPAD CURRENT + AUX POWER CURRENT + FIRE POWER + PGM CURRENT.
- (2) RESIDENTIAL FIRE REQUIRES A 7AH BATTERY.
- (3) UNIT INTENDED TO BE MOUNTED VERTICALLY ON WALL.
- (4) REFER TO W11089 FOR COMPATIBLE TWO WIRE SMOKE DETECTORS. DO NOT MIX DIFFERENT MODELS.
- (5) THIS PANEL SHALL BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST ONCE EVERY THREE YEARS.
- (6) THIS PANEL SUPPORTS ONLY ONE SMOKE DETECTOR IN ALARM.
- (7) USE ONLY ONE BELL IN RESIDENTIAL FIRE APPLICATION.
- (8) 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.

ALL OUTPUTS ARE CURRENT LIMITED



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

This equipment should be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72-1996 (National Fire Protection Association Batterymarch Park, Quincy MA 02269), and local codes. Information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment. UL Listed Energy Cable is required.