



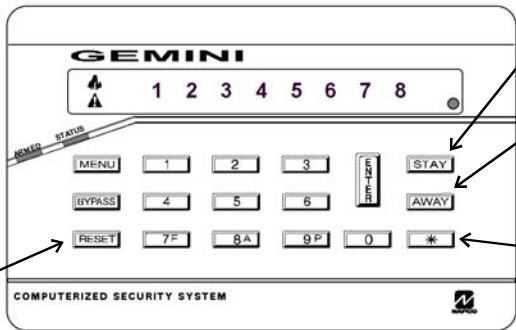
GEM-P801 Programming Instructions

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

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.



Either the GEM-RP8 Keypad or the GEM-K800 (shown above) may be used. See W11089.

Set Key

Press this key before entering a Programming Block Number.

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. Turn off Power and remove wiring between terminal 19 (PGM) and terminal 3.
8. Re-install original wiring for terminal 19 (PGM) and terminal 3 then reapply power.

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.

Entering Dealer Program Mode

Enter **MENU** **8A**

Dealer Code

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

Default Dealer Code shown in parentheses

<input type="checkbox"/>	ARMED	ON	Indicates the panel is in Dealer Program Mode. The panel is ready for a programming block to be entered.
<input type="checkbox"/>	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** **MENU** **8A**

Dealer Code

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

<input type="checkbox"/>	ARMED	FLASHING	Indicates the panel is Ready to exit Dealer Program Mode. Enter the Dealer Code to exit.
<input type="checkbox"/>	STATUS	FLASHING	
▲	TROUBLE	FLASHING	

Note: Unattended downloading from a computer is not allowed for Fire Alarm or UL installations.

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 **AWAY** key; all LEDs will turn OFF.

NOTE: PGM OUTPUT

The PGM Output limits the number of features that can be programmed simultaneously (such as PGM Access).

① LED Programming Block Example

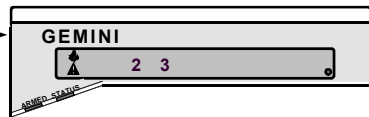
Program zones 2 and 3 as *Follower Zones*.

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.
4. Press **RESET** **STAY** or **ENTER** to program.

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 selected as follower zones.



(Be sure to press **RESET** **STAY** or **ENTER** to program your selection).

Direct Entry Programming Block

Enter data directly. For hexadecimal entries of A-F, use the ***** key + **1** through **6** keys, respectively.

Use the **AWAY** 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"/>
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** **E**
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	

IMPORTANT NOTE This manual supports keypad programming with both the older GEM-RP8 and the new GEM-K800 "K Series" keypad (which offers new STAY / AWAY / MENU and ENTER buttons). While this manual only depicts the GEM-K800 keypad buttons, either keypad may be used. **Note:** 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. Program Mode is the same for both keypads; only the button names have changed, as follows:

The **FUNCTION** / **MENU** buttons and the **OFF** / **ENTER** buttons operate identically (in Program Mode) for both keypads. The **INTERIOR** / **STAY** ("NEXT/YES") buttons operate identically (in Program Mode) for both keypads. The **INSTANT** / **AWAY** ("PRIOR/NO") buttons operate identically (in Program Mode) for both keypads.

Viewing Data in Programming Blocks

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

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

NOTE:

The Following Programming Options are not permitted for UL installations: [05], [06], [23-2], [26-3] and [26-4].

The **⊗** symbol next to a programming Block indicates the programming option is not permitted for UL installations.

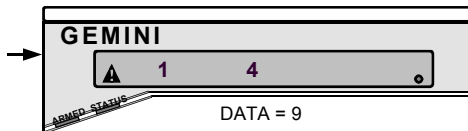
The **†** symbol next to a programming Block indicates features that are specifically required by SIA CP-01.

Example: Viewing the Dialing Prefix

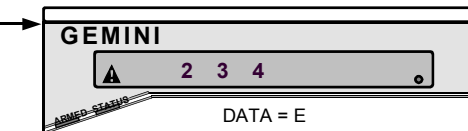
A Dialing Prefix of 9E has been programmed at Programming Block Number 44 (outside access number). Follow the steps below to view the data:

44 Dialing Prefix 9 E

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



- Press the **[STAY]** key to view the 2nd digit.



NOTE:

For information about programming blocks, refer to GEM-P801 Installation Manual W11089.

Zone Features

† 00 Exit/Entry Zones

Default

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

Ⓝ 03 Auto Bypass Reentry Zones

Default

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

Ⓝ 06 Disable EOL Resistor

Default

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

09 Selective Bypass

Default

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

01 Home/Away with Delay Zones

Default

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

04 24 Hour Protection Zones

Default

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

† 07 Burg (Steady) Output

Default

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

02 Exit/Entry Follower Zones

Default

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

Ⓝ 05 40 ms Loop Response Zones

Default

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

08 Programmable Output (PGM)

Default

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

The "†" symbol indicates features that are specifically required by SIA CP-01.

Note: The programming for the Abort Window for all non-fire zones is as follows: Minimum, 15 sec., Maximum, 45 sec., Default Time, 30 sec. This feature may be disabled by Zone or Zone type. In accordance with UL standards, the aggregate of the Entry Delay [11] and Abort Window [79] will not exceed 1 minute.

System Times

10 Exit Delay

Exit Delay, seconds

(0) (6) (0) Set 60 seconds in UL Installations.

15-255 (Non-CP-01) and 45-255 (CP-01) are valid entries. SIA CP-01 Required Default = 60 seconds

11 Entry Delay

Entry Delay, seconds

(0) (3) (0) 30-255 are valid entries.

Note: Default time is actually 30 sec. Any time programmed will be added to 30 sec. SIA CP-01 Required Default = 30 seconds

12 Burg (Steady) Output Time-out

Bell Time-out, minutes

(0) (0) (5) Maximum Entry 255; UL minimum = 5.

13 Fire (Pulsed) Output Time-out

Bell Time-out, minutes

(0) (0) (0) Maximum Entry 255; UL minimum = 15.

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

(4) Maximum Entry 4

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

Zn 1 LED ON = *Keypad Fire (7F *)

Zn 2 LED ON = *Keypad AUX (8A *)

Zn 3 LED ON = *Keypad Panic (9P *)

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

*See Note 1

21 Keypad Features 2

Default

Zn 1 LED ON = Audible panic

† Zn 2 LED ON = Exit/Entry with Urgency

Zn 3 LED ON = Display Bypass (ARMED)

Zn 4 LED ON = Disable Code Entry Beeps

22 Miscellaneous Features 1

Default

Zn 1 LED ON = Abort Delay

Zn 2 LED ON = Easy Arm/Easy Exit

Zn 3 LED ON = Swinger Shutdown

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

23 Programmable Output (PGM) Features 1

Default

Zn 1 LED ON = Audio Verification

Zn 2 LED ON = *Access Output (FUNCTION 3)

Zn 3 LED ON = *Follow Keypad Sounder

Zn 4 LED ON = Chirp Bell on Remote (Keyfob) Arm

*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 with no intervening barrier, such as a wall or a ceiling.

NOTE 2:

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

24 Programmable Output (PGM) Features 2

Default

Zn 1 LED ON = Fire

Zn 2 LED ON = AUX

Zn 3 LED ON = Panic

Zn 4 LED ON = Test Timer

25 Programmable Output (PGM) Features 3

Default

Zn 1 LED ON = AC Fail

Zn 2 LED ON = Low Battery

Zn 3 LED ON = *Trouble

Zn 4 LED ON = Armed

*See Note 3

26 Miscellaneous Features 2

Default

Zn 1 LED ON = Momentary Keyswitch

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

Zn 1 LED ON = Keyswitch Polarity

Zn 2 LED ON = Reserved

Zn 3 LED ON = Reserved

Zn 4 LED ON = Reserved

NOTE 3:

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

NOTE 4:

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

SIA CP-01 Features

70 SIA CP-01 Features

Default

† Zn1 ON=Exit Restart Enabled

† Zn2 ON=Convert Away to Stay if no Exit

Zn3 OFF=Bell Chirp on all Arming and Closing Ringback

Zn4 OFF=Zone 6 as Auxiliary Zone

The "†" symbol indicates features that are specifically required by SIA CP-01.

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)

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.

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)

- 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, Wireless Transmitter Low Battery, Wireless Supervisory Failure, Wireless Smoke Low Battery, Wireless Smoke Supervisory Failure, and Wireless Tamper.

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

† ON Zn 1 LED ON = Send Cancel Report

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

69 Miscellaneous Features 4

Default

OFF Zn 1 LED ON = Reserved

OFF Zn 2 LED ON = Reserved

OFF Zn 3 LED ON = Chime Disable on Power Up

OFF Zn 4 LED ON = Fire Alarm Verification

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.



RF ID # XXXXXX:X

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

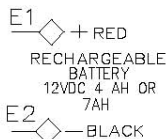
- 1 Panic
- 2 AUX
- 3 Bell ON
- 4 PGM
- 5 Instant
- 6 Access on PGM
- 7 Full Set System
- 8 Interior

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 W1089)



RESIDENTIAL BURG (4 HOUR STANDBY)

COMBINED STANDBY CURRENT=500 mA

ALARM CURRENT=2.0 A

RESIDENTIAL FIRE (24 HOUR STANDBY) (3)

COMBINED STANDBY CURRENT=120 mA

ALARM CURRENT=95 mA BELL CURRENT, 275mA ADDITIONAL

AUX POWER OUTPUT

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



THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTORS SHALL BE CONNECTED TO THESE CIRCUITS UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

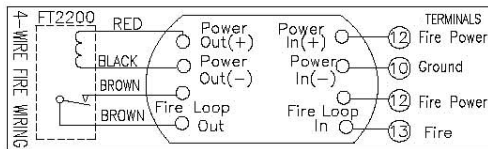
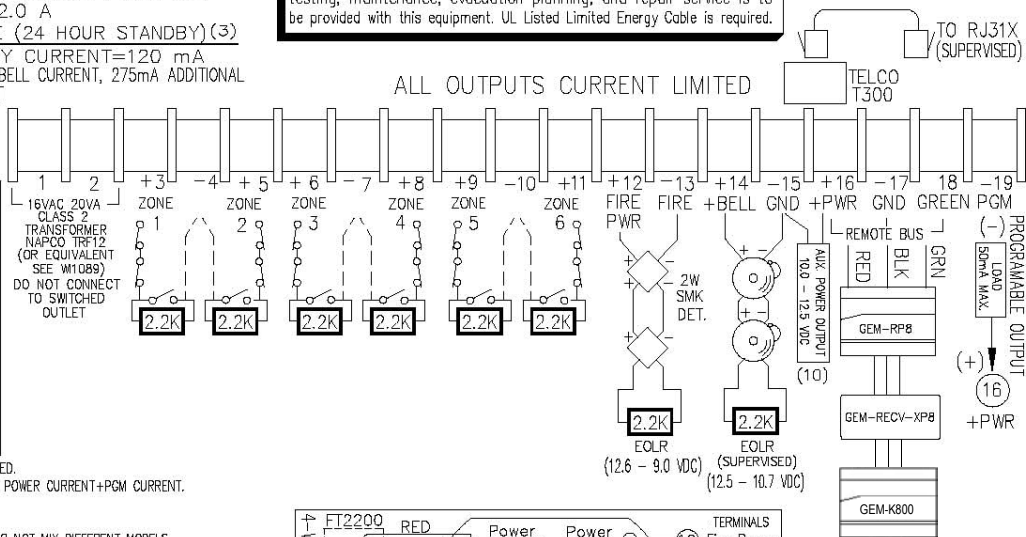
CIRCUIT CONTROL UNIT SMOKE DETECTORS
ZONES DELAY-SEC

MODEL DELAY-SEC.

THE DELAY (POWER UP) (STARTUP) TIME MARKED ON THE INSTALLATION WIRING DIAGRAM OF THE SMOKE DETECTOR OR ON THE INSTALLED SMOKE DETECTOR(S) IS TO BE USED.

- 1) ALL ZONE RESISTORS MUST BE INSTALLED, EVEN IF ZONE IS NOT USED.
- 2) COMBINED STANDBY=KEYPAD CURRENT+ AUX POWER CURRENT+FIRE POWER CURRENT+PGM CURRENT.
- 3) 24 HOUR STANDBY REQUIRES A 7 AH BATTERY.
- 4) UNIT INTENDED TO BE MOUNTED VERTICALLY ON WALL.
- 5) REFER TO W1089 FOR COMPATIBLE TWO WIRE SMOKE DETECTORS. DO NOT MIX DIFFERENT MODELS.
- 6) THIS PANEL SHALL BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST ANNUALLY OR ONCE A YEAR.
- 7) THIS PANEL SUPPORTS ONLY ONE SMOKE DETECTOR IN ALARM.
- 8) USE ONLY ONE BELL IN RESIDENTIAL FIRE APPLICATION.
- 9) 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.
- 10) PANEL STOPS PROCESSING ALARMS AT 8VDC.

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



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

L11991B