GEM-RP8LCD
DIGITAL KEYPAD
INSTALLATION INSTRUCTIONS

INTRODUCTION

The GEM-RP8LCD is a user-friendly, menu-driven digital keypad that is compatible with the NAPCO GEM-Series GEM-P800, P801, and P400 control-panels. Refer to User Guide OI276 for operation instructions. While the GEM-RP8 may be used to fully program any of the previous listed panels, the GEM-RP8LCD keypad provides the optimum in ease of keypad and panel programming. In addition, to ease installation, the RP8LCD includes an internal Expansion Zone Module (EZM) inside the keypad itself.

SPECIFICATIONS

Operating Voltage: 12 V DC (supplied by panel)
Current Drain: 100 mA Standby
                                  35 mA (cut Jumpers W1, W2 and W3)
Dimensions: 4 3/8" x 5 7/8" x 1 1/8"

Note: Subtract keypad current from combined auxiliary current of the control panel.

MOUNTING THE KEYPAD

A keypad should be located near each exit/entry door. To open the case, insert a screwdriver into either slot at the bottom and push up with a slight twisting motion to release the retainer tab. Repeat for the other slot. Pull out at the bottom and lift off the two hooks at the top.

The GEM-RP8LCD features a handy pull-up reference label. (This label must be used in UL installations). Before mounting the keypad onto the wall, push the sliding label plate (with label and felt backing affixed and handle facing forward) down the guides at the rear of the keypad until it snaps into place. Once installed, the sliding label plate cannot be removed without first removing the keypad from the wall. **Note:** The keypad fire and panic keys should not be considered a substitute for a listed manual initiating device, such as a pull box.

If installing onto a double-gang box, insert mounting screws through the two vertical elongated holes on the left side of the case and into the box. If the box is visible when viewed from the front, adjust the keypad vertically and tighten the screws. Then, using hardware suitable for the mounting surface, add one or two screws at the right side of the keypad case directly into the wall to ensure a secure installation. **Note:** *Do not over tighten the screws!* Uneven walls may cause the keypad case to distort.

WIRING

Connect the keypad wires as shown in the table below. *Caution*: Do not run keypad wiring with loop wiring.

Keypad Wire Color	Panel Terminals
RED	Remote Bus (+) PWR
BLACK	Remote Bus (–) GND
GREEN	Remote Bus Green/Data
ORANGE	(+) Keypad Zone 1 *
GRAY	All Gray wires are (–) Common
BLUE	(+) Keypad Zone 2 *
BROWN	(–) PGM Output
WHITE	Not Used
VIOLET	Not Used
YELLOW	Not Used

* EOL Resistor Required

CONFIGURING THE KEYPAD

A total of up to four (4) keypads may be connected to the panel. GEM-RP8LCD keypad and the GEM-RP8 may be intermixed but require different configuration procedures, as described in the following paragraphs. For an overview of the GEM-RP8LCD programming modes, see the Keypad Programming Modes section at the end of this manual.

Each GEM-RP8LCD keypad can be configured for the following: (a) keypad feedback beep; (b) keypad sounder; (c) entry/exit countdown display; (d) displaying zone faults; (e) keypad PGM output; (f) dialer test; (g) easy exit option; (h) ready message option; (i) enable keypad panic buttons; (j) keypad address; (k) EZM Address; (l) enable EZM Zones; (m) EZM Zone response time; (n) access control message changes; (o) exit delay time display ; and (p) entry delay time display. Keypads to be programmed are isolated from the control panel and information entered is stored within the keypad itself.

After completing RP Configuration Mode, press RESET to Program Zone Descriptions and press STAY and [ENTER] to start the LCD to LCD Transfer Option to transfer zone descriptions to other keypads in your system. See page 7 for an overview of Keypad Configuration Mode.

To enter RP (Keypad) Configuration Mode:

1. Disconnect green wire from Remote Bus panel terminal--or-- short the green wire(s) to remote ground.
2. Press the RESET button and the display will read "OUT OF SYSTEM".
3. Enter the factory code of 11123 MENU .

The software version number appears briefly, then the words "RP CONFIGURATION PROGRAM MODE" appear. The first selection is "Feedback Beep". Before proceeding, please make note of the following:

When in RP (Keypad) Configuration Mode:

Press [ENTER] to change a configuration. Changing a configuration advances the system to the next selection. Press the MENU button to continue scrolling through the selections (scroll down) or press the BYPASS button to return to previous selections (scroll up). Press RESET to exit Keypad Configuration Mode. The first selection is "Feedback Beep". Proceed as follows:

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KEYPAD CONFIGURATION MODE

Feedback Beep (Default = ON)

Upon entering the Keypad Configuration Mode (press [RESET] any time to exit), "Feedback Beep Presently ON" displays, indicating that the tactile beep, which sounds when any button is pressed, is on. To turn off the tactile feedback beep, press [ENTER]. The tactile feedback beep will immediately turn off, and the system will advance to the next selection (*Keypad Sounder*). If feedback beep is off and you wish to turn it on again, press [BYPASS] (to scroll back). Display will read "Feedback Beep Presently OFF".

Press [ENTER] to turn on.

Keypad Sounder (Default = ON)

To turn off the keypad sounder, press [ENTER]. All keypad sounds will be off, except for the Feedback Beep. Do not program in UL installations.

E/E Countdown (Display) (Default = ON)

Exit delay allows time for the user to leave the premises after arming; entry delay provides the user time to enter and disarm. To turn off (or turn on) the display of the exit/entry delay countdown, press [ENTER]. **Note:** Requires times to be entered. See *Exit/Entry Time Display* on next page. **Note:** Factory program defaults to 30 and 45 seconds for Entry and Exit delays, respectively.

Display Zn Fault (Default = ON)

To turn off the scrolling display of zone faults, press [ENTER]. If faulted zones exist and this setting is OFF, window will only display "Zone Faulted" and not scroll zones.

Keypad PGM Opt (Default = OFF)

A common use of this feature is to activate a door strike for the purposes of remotely unlocking a door. The PGM is a switched negative output that is activated when this option is selected and by pressing [ENTER]. Connect the device controlled by the PGM between +PWR and the PGM terminal (maximum load of 10 mA). The PGM Output will remain ON for approximately 7 seconds. **Note:** If this option is OFF, the Activate Access function will not display in the Function Menu. **Note:** Be sure to use the Keypad PGM (brown keypad wire) not the panel PGM (terminal 19 on GEM-P801, terminal 15 on GEM-P800/XP-600/400).

Dialer Test Opt (Default = OFF)

Testing the dialer is initiated through the Function Menu. Turning ON the Dialer Test Item enables the *Activate Dialer Test* entry to be listed in the Function Menu. If turned OFF, the *Activate Dialer Test* entry is removed from the Function Menu. The *Dialer Test Option* is not supported with the GEM-P800 and therefore must be turned off here if used with this panel.

Easy Exit Option (Default = OFF)

This option allows a user to exit the premises while the system is armed. If OFF, the Easy Exit function will not display in the Function Menu. Turn OFF if not enabled in Panel. This feature should not be used in UL installations.

Ready Message Option (Default = OFF)

An alternate message can be used in place of the default "SYSTEM READY" message when keypad is in a normal state. The alternate message is "READY TO ARM" but can be changed to any other text message by using the PC Quickloader software.

Keypad Panics F=4 A=2 P=1 (Default = 7)

0=None	1=Panic	2=Aux	3=Panic & Aux
4=Fire	5=Panic & Fire	6=Aux & Fire	7=Panic, Aux & Fire

Each Panic Zone is always a 24-Hour Zone, and each keypad can be individually programmed for keypad panics. Enter the sum of the displayed numbers to activate the selected Panic Zone(s) as follows:
If "Keypad Panic" (P) is programmed for a keypad, police panic is activated by pressing [9P] and [✱]. If "Keypad Aux." (A) is programmed, pressing [8A] [✱] will trip an auxiliary emergency alarm. If "Keypad Fire" (F) is programmed, pressing [7F] and [✱] will activate fire panic. These features must also be enabled in panel programming via Dealer Mode. Press [ENTER] to save your selection. 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 walls or barriers.

Keypad Address (Default = 0)

Each keypad must be assigned a unique keypad address (that is, no two keypads may be numbered alike) in order for the PCD Windows Downloader software to correctly configure the keypads. Keypads must be numbered consecutively, and missing numbers are not permitted. To assign the keypad number, enter the assigned keypad number 1–4, then press [ENTER] to save.

Enabling Keypad EZM Zones

EZM Address (Default = 0)

The GEM-RP8LCD keypad includes an internal EZM (Expansion Zone Module) that may be enabled to provide two additional hard wired zones, assigned to zones 7 & 8. The GEM-P801 will support up to two EZMs, EZM1 and EZM2. If the EZM is not used, the keypad's EZM address must be left at the default of "0". To enable the EZM in the keypad, enter an EZM address of "1" or "2", and press [ENTER] to save. Press [MENU] to continue.

- If two Keypad EZM zones are required from one keypad, enable EZM1 (1).

- If only one Keypad EZM zone is required, enable keypad EZM1 (1).

- If one Keypad EZM zone is required from one keypad and one Zone from another, enable EZM1 (1) in one keypad and EZM2 (2) in the other.

*EZM Zones Enable (Default = 3)**

* EZM Address must be set to 1 or 2 for Zones to be enabled (see above). After the Keypad EZM has been enabled, the Zone(s) to be used on the Keypad EZM must also be enabled as follows:

- To enable EZM Zone 1, enter [1] on the display and press [ENTER].

- To enable EZM Zone 2, enter [2] on the display and press [ENTER].

- To enable both EZM Zones 1 *and* 2, enter [3] and press [ENTER].

NOTE: If zones are enabled, then 2.2K EOL resistor (provided) must be used (in parallel with N/O, in series with N/C devices).

ASSIGN EZM ZONES IN DEALER PROGRAM MODE

In addition to configuring the keypad (above), the panel must be programmed for the use of keypad EZM zones. Via **Dealer Program Mode**, these zones must be mapped to Zones 7 and 8 in the same fashion as RF transmitters - by entering a special RF ID number and point number in blocks 77 and 78, as described below.

Enter Dealer Program Mode:

1. Be sure the green wire(s) are reconnected to the Remote Bus panel terminal, and the keypad is disarmed.

2. Press [MENU] until the display reads "ACTIVATE PROGRAM".

3. Press [ENTER] to select. Display will read "ENTER CODE FOR PROGRAM MODE".

4. Enter the Dealer Code (**Note:** Factory default is 4567) and press [ENTER].

To Map Keypad EZM 1 Zone 1 to Panel Zone 7:
Go to block 77 and enter RF ID# 111111:5-1 (point 1) to map to Zone 7.
Press [RESET] (beep) [7F] [7F] (beep) [1] [1] [1] [1] [1] [1] [5] [1]

To Map Keypad EZM 1 Zone 2 to Panel Zone 7:
Go to block 77 and enter RF ID# 111111:5-2 (point 2) to map to Zone 7.
Press [RESET] (beep) [7F] [7F] (beep) [1] [1] [1] [1] [1] [1] [5] [2]

To Map Keypad EZM 2 Zone 1 to Panel Zone 7:
Go to block 77 and enter RF ID# 222222:b-1 (point 1) to map to Zone 7.

Press [RESET] (beep) [7F] [7F] (beep) [2] [2] [2]
[2] [2] [2] [✱] [1] [1]

To Map Keypad EZM 2 Zone 2 to Panel Zone 7:
Go to block 77 and enter RF ID# 222222:b-2 (point 2) to map to Zone 7.
Press [RESET] (beep) [7F] [7F] (beep) [2] [2] [2]
[2] [2] [2] [✱] [1] [2]

Zone 8 Example: The Keypad EZM Zone can be mapped to panel Zone 7 or 8. Previously, block 77 was used to map to Zone 7 (above). Use block 78 if you wish to map to Zone 8, as shown in the following example:

To Map Keypad EZM 2 Zone 2 to Panel Zone 8:
Go to block 78 and enter RF ID# 111111:5-2 (point 2) to map to Zone 8.
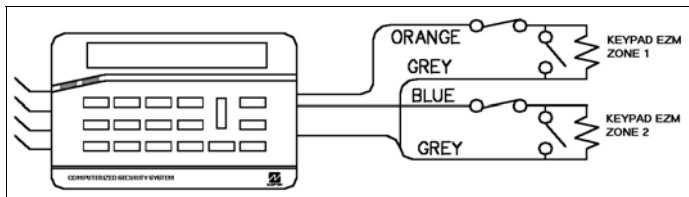Press [RESET] (beep) [7F] [8A] (beep) [1] [1] [1]
[1] [1] [1] [5] [2]

Exit Dealer Program Mode:
To exit Dealer Program Mode, press [MENU] [8A], enter your Dealer Code, then press [ENTER].

WIRE THE KEYPAD
Reference the wiring diagram below when wiring the keypad EZM Zone 1 or 2 to the panel Zone 7 or 8. **NOTE:** If zones are enabled, then 2.2K EOL resistor (provided) MUST be used (in parallel with N/O, in series with N/C devices). **NOTE:** If two keypad EZM's are enabled, the system cannot support a GEM-RECV-XP8 wireless receiver. If one keypad EZM is enabled, then one GEM-RECV-XP8 may be used.

EZM Zone 50ms Response (Default = 0)
The default loop response of each keypad expansion zone is 750mS, however the response time of any zone can be reduced to 50mS as follows:

- To reduce zone 1 to 50mS, enter 1 on the display and press [ENTER].
- To reduce zone 2 to 50mS, enter 2 on the display and press [ENTER].
- To reduce both zone 1 and 2 to 50mS, enter 3 and press [ENTER].

Access Control Message (Default = 0)
The default Access-Control message is "✱✱ENTER NOW✱✱". This display may be changed to any of the following messages:

ENTRY	MESSAGE
0	"✱✱ ENTER NOW ✱✱" (Default)
1	"Door Control"
2	"Gate Control"
3	"Light Control"

Enter the number of the message you wish displayed and press [ENTER].

Exit Delay Time Display (Default = 045)
The delay time which permits exit through an *Exit/Entry Zone* after the system is armed, allows a user to leave the premises <u>without</u> setting off an immediate alarm. *Exit Delay* may be programmed for up to 255 seconds (4¼ minutes). Enter the number of seconds and press [ENTER].

Note: Changing this configuration updates the *keypad only,* not the panel. The panel delay time is updated via Dealer Mode only; to keep the panel and keypad delay times synchronized, be certain to program the keypad for the same time as programmed for the panel.

Entry Delay Time Display (Default = 030)
Entry delay time permits entry through *Exit/Entry Zone(s)* after the system is armed without setting off an immediate alarm. *Entry Delay* allows the user time to enter and disarm the system. Upon entering, the keypad sounder will sound an entry sound to remind the user to disarm the system. *Entry Delay Time* may be programmed for up to 255 seconds (4¼ minutes). Enter the number of seconds and press [ENTER]. **Note:**

Changing this configuration updates the *keypad only,* not the panel. The panel delay time is updated via Dealer Mode only; be certain to program the keypad for the same time as programmed for the panel.

Exiting Keypad Configuration Mode
Press [MENU] to loop back through selections or press [RESET] to enter the Zone Descriptions Mode, in which you can change the zone descriptions that appear on the keypad display. If you wish to exit the Keypad Configuration Mode, press [RESET] (display will read "OUT OF SYSTEM"). Replace the green wire to the Remote Bus Panel Terminal. Display will display panel status.

ZONE DESCRIPTIONS MODE
Zones are independent circuits that protect specific areas of the premises. The displayed zone descriptions may be changed to suit the particular design of the premises. To change Zone Descriptions:
1. Disconnect green wire from Remote Bus panel terminal.
2. Press [RESET] and the display reads "OUT OF SYSTEM".
3. Enter factory code: 11123 [MENU].

The software version number appears briefly, then "RP CONFIGURATION MODE" appears. After a few seconds, the words "Feedback Beep Presently ON" appear.

4. Press [RESET] and "ZN DESCRIPTIONS MODE" displays.

- Scroll descriptions forward or backward using [MENU] and [BYPASS], respectively.
- To return to normal keypad operation, press [RESET] and reconnect the green wire to the Remote Bus panel terminal.
- After entering Zone Descriptions Mode, the keypad will automatically return to "OUT OF SYSTEM" if no activity is detected for longer than 4 minutes.

Entering a new zone description
- Use [MENU] and [BYPASS] to scroll to the desired zone.
- Use [1] and [2] to position the cursor within the display.
- Use [3] and [6] to scroll through numbers, letters, etc.
- Use [4] and [5] to erase text while moving the cursor backwards and forwards.
- With the cursor located under a word, use button [7F] to move the entire word to the left, and use [8A] to move the word to the right.
- Press [ENTER] to save when the zone description is complete.

Quick Word List			
01=ACCOUNTING	22=DOWNSTAIRS	43=INTERIOR	64=SHED
02=ALARM	23=EAST	44=KITCHEN	65=SHIPPING
03=APARTMENT	24=ENTRY	45=LAUNDRY	66=SIDE
04=AREA	25=EXERCISE	46=LEFT	67=SKYLIGHT
05=ATTIC	26=EXIT	47=LIVING	68=SLIDING
06=BABYS	27=FAMILY ROOM	48=LOBBY	69=SMOKE
07=BACK	28=FIRE	49=LOW	70=SOUTH
08=BASEMENT	29=FIRST	50=MAIDS	71=SPACE
09=BATH	30=FLOOD	51=MASTER	72=STAIRS
10=BEDROOM	31=FLOOR	52=MOTION	73=STUDY
11=BOYS	32=FOIL	53=NORTH	74=TAMPER
12=CEILING	33=FOYER	54=OFFICE	75=TEMPERATURE
13=CLOSET	34=FRENCH	55=PHONE	76=UPSTAIRS
14=COMPUTER	35=FRONT	56=PLAY	77=UTILITY
15=CONTROL	36=GARAGE	57=PORCH	78=WAREHOUSE
16=DEN	37=GATE	58=PROTECTION	79=WEST
17=DEPARTMENT	38=GIRLS	59=REAR	80=WINDOW
18=DETECTOR	39=GLASS	60=RIGHT	81=WORKSHOP
19=DINING	40=GREAT	61=ROOM	82=UP
20=DOOR	41=GUEST	62=SAFE	
21=DOWN	42=HALL	63=SALES	

Quick Word List
The keypad contains pre-programmed zone descriptions, avoiding the need to scroll through individual numbers, letters, and symbols. Press [✱] followed by the two-digit number of the entry listed in the Quick Word List table (above). For example, to enter the description "DINING ROOM", press [✱] 1 9 [✱] 6 1. **Note:** A space is automatically set after Quick Words

are entered, and entering ⬚✱ ⬚0 ⬚0 splits an existing word.

LCD TO LCD TRANSFER OPTION

Zone descriptions can be transferred from the programmed keypad (master) to the unprogrammed others (slaves) in the system.

1. Program the primary keypad (master) with the appropriate zone descriptions, etc, as described in Zone Descriptions Mode above.
2. As a safety precaution, remove AC and DC power to the panel.
3. Wire all keypads to the panel and reapply power.

The LCD TO LCD TRANSFER OPTION is accessed through Keypad Configuration Mode, as follows:

4. Disconnect green wire from Remote Bus panel terminal.
5. Press RESET and the display will read "OUT OF SYSTEM".
6. Enter the factory code of 11123 MENU .

The software version number appears briefly, then the words "RP CONFIGURATION MODE" appear. After a few seconds, the words "Feedback Beep Presently ON" appear.

7. Press RESET then STAY and "LCD TO LCD TRANSFER OPTION" will display. The keypad is now ready to replicate keypad data to the other keypads in the system.
8. In order for the transfer to take place, all keypads must be physically linked to each other and isolated from the panel. Therefore, connect all green wires from all keypads. Do not connect green wires to panel.
9. To initiate the transfer, press ⬚. The master keypad will start transmitting data to all slaves. The words SENDING are displayed as the keypad cycles through the database (which is displayed on the LCD during this process). At short intervals, the words "SENDING STOPPED…PLEASE WAIT" will display. Similarly, the slave keypads receiving data will display "RECEIVING".
10. When complete, the words "OUT OF SYSTEM" will display. Reconnect all wires as described previously for normal operation.

FUNCTION MENU

This section provides an overview of system operation. For additional information, please refer to the User's Guide furnished with the keypad (OI276).

The MENU button provides access to a wide assortment of utility functions.

- To enter and scroll through the Function Menu, press MENU .
- To select and execute a function, press ⬚.
- Functions may be manually scrolled forward or backward using MENU and BYPASS , respectively.
- To return to normal keypad operation, press RESET . The keypad will automatically return to its normal operating mode if no activity is detected for longer than one minute.

DISPLAY ZN FAULTED
Will display only if zone faults are present. The system will display a listing of all faulted zones. After all faulted zones are displayed, the system exits the Function Menu and returns to its normal display.

DISPLAY ZN BYPASSED
Will display only if bypassed zones exist. If an open zone cannot immediately be fixed, it can be left unprotected, or *bypassed*, while the rest of the system is armed. The system will display a listing of all bypassed zones. After all bypassed zones are displayed, the system exits the Function Menu and returns to its normal display.

DISPLAY SYSTEM TRBL
Will display only if system troubles are present. The panel is constantly monitoring its own components, as well as all critical services, such as AC power, to ensure that it is always ready to provide the protection for which it was designed. If one of these components should fail, the keypad will caution you by displaying "SYS TBL" and beeping the keypad buzzer. Press ⬚ to display a listing of all system troubles. After all system troubles are displayed, the system exits the Function Menu and returns to its normal display.

DISPLAY ZN DIRECTORY
Zones are independent circuits that protect specific areas of the premises. The system directory will display a listing of all zones. After all zones are displayed, the system exits the Function Menu and returns to its normal display.

ACTIVATE BELL TEST
Enter this command to turn on the Bell, keypad sounder and keypad LEDs for 2 seconds. The battery is tested during a Bell Test, and automatically every 24 hours* to ensure proper battery operation under load. The Alarm output requires a battery in order to supply the specified output. If the battery cannot sustain the load, a low battery indication will be displayed. A battery test is also performed on power-up after a 3 minute delay. *Note: A battery test occurs every 4 hours when *Household Fire* [96-3] has been selected. A keypad shortcut of MENU 1 can be used to activate the Bell Test.

ACTIVATE DIALER TEST
If activated in the Keypad Configuration Mode, activating the dialer test sends a communicator dialer test to the central station. A communication failure will be indicated at the keypad by a system trouble "FAIL TO COMM" display. Repeat the test to attempt to correct a communication failure, as any successful communication will clear this display. Press ⬚ to initiate the test. **Note:** This feature is not supported with the GEM-P800 and therefore must be disabled in Keypad Configuration Mode (page 2, *Dialer Test Opt*) if used with this panel.

DEACTIVATE CHIME
Press STAY to sound a tone at the keypad when a Chime Zone is violated. The duration of the tone is panel programmable (except for the P800). To deactivate the Chime Mode, re-enter the Function Menu and when "DEACTIVATE CHIME" is displayed, press ⬚. **Note:** The Chime Mode is disabled while armed.

DEACTIVATE KEYPAD SOUNDER
The keypad sounder is a local warning device at each keypad. This command turns the keypad sounder ON or OFF. When the keypad is deactivated, all keypad sounds will be silenced except for keypad feedback beeps. The keypad sounder may activate under the following conditions: (a) entry delay has started; (b) an attempt was made to arm with a zone in trouble; (c) 10 seconds exit time remaining (only if *Exit/ Entry with Urgency* is enabled at the panel [21-2]); (d) invalid code entered; or (e) system troubles and alarms.

ACTIVATE EASY EXIT
EASY EXIT provides one button arming for non-security critical premises. Must be programmed in panel in order to function. Select Easy Arming for each Keypad. Disarming still requires a valid user code. To arm press and hold AWAY . In addition, a keypad shortcut of MENU 0 can be used to activate this feature (program *Easy Exit/ Easy Arm* function [22-2] at panel). Do not program in UL Installations. This feature will not appear unless *Easy Exit Option* is enabled in Keypad Configuration Mode.

ACTIVATE PROGRAM
Activates the USER PROGRAM MODE. Your dealer has programmed into your system a special *User Program Code*. This code can be used to not only Arm and Disarm the system, but also to enter PROGRAM MODE, where you can program other User Codes. See USER PROGRAM MODE, below, for a full explanation of the features available within this mode. **Note:** This feature is disabled while armed or while reporting (unless reporting occurs within first 3 minutes of panel power-up from a cold start).

ACTIVATE ACCESS
Will display only if *Keypad PGM Opt* is enabled in the Keypad Configuration Mode. Pressing [ENTER] will cause the keypad (–) PGM Output (brown wire) to enable an active low voltage output. In addition, if *Access Output* [23-2]* is enabled in the panel, the panel PGM will enable an active low output. When activated, the Access Control Message will appear on the keypad and the output will remain active low voltage for

approximately 7 seconds.

Access Output is not available in all GEM-Series Panels.

Note: An active PGM output of a disarmed system will be reset when you:

- Enter your Code and press AWAY
- Enter your Code and press STAY

If Easy Arm is enabled, then holding down STAY or AWAY will reset an active PGM. Therefore, if using the PGM Output to activate a latched alarm output (such as a strobe or auxiliary sounding device) it is recommended that Easy Arm **NOT** be enabled.

Note: These systems have not been investigated by UL for compliance with UL294 (Access Control Systems).

ACTIVATE FAULT FIND

This troubleshooting aid will help the installer locate swingers. When accessed, two things occur:

- The loop response of each zone is set for the fastest response time.
- Causing or repairing a fault activates the sounder for about 1 second.

Tapping and poking at suspect points, the installer can easily locate swingers by listening for the beep. This eliminates the need of returning to the keypad to visually check after each attempt. Press RESET to restore normal operation. Arming the system automatically cancels the Fault Find Mode. **Note:** When testing wireless systems, the keypad will not beep if the signal strength is less than 3. **Note:** This feature is disabled while armed or within first 3 minutes of panel power-up from a cold start.

ACTIVATE DOWNLOAD

Used on-site for remote downloading of a control-panel program from the PCD3000. Press ENTER to initiate the data transfer. **Note:** This feature is disabled while armed or while reporting (unless reporting occurs within first 3 minutes of panel power-up from a cold start).

PROGRAM MODE

PROGRAM MODE comprises two options:

☞   User Program Mode

☞   Zone Descriptions Mode

USER PROGRAM MODE is accessed through the Function Menu.

1. To enter the Function Menu, press MENU .

2. Skip through the functions by pressing MENU until ACTIVATE PRO-GRAM is displayed.

3. Press ENTER .

4. When "USER PROG. MODE   USERS=1" displays, the system is ready for USER CODE programming.

- To return to normal keypad operation, press RESET . The keypad will automatically return to its normal operating mode if no activity is detected for longer than one minute.

- **Note:** A keypad shortcut of MENU 8A can be used to proceed directly to USER PROGRAM MODE without the need to scroll through the Function Menu.

USER PROGRAM MODE

Up to 8 personal User Codes may be programmed at the keypad.

Default User Code.

The first code programmed should replace the default (User 01) code.

Each user should be assigned his own dissimilar code and should be cautioned against divulging his code to anyone else. Thus should it become necessary to remove a user from the system, that one code may be cancelled without affecting other codes, and that user would then be prevented from entry.

Programming / Reprogramming a User Code

1. Enter the digit of the user number to be programmed.
2. Enter the new User Code (up to 4 digits). The new User Code is automatically saved.

Repeat steps for each User Code to be programmed. While in User Program Mode, the Armed, Status and SYS TBL display will continue to flash. Follow the example below to program **User 2's** code to **1923.**

User Program Mode Example:

1. Press 2 (Keypad beeps twice).

2. Enter 1 9P 2 3 . The keypad will beep four times confirming a valid entry. They keypad will automatically save the new User Code for the user number, and reset to allow a new user number to be programmed (or reprogrammed).

Note: A two or three digit User Code can be used by entering zeros in the last digits. For example, "37" can be used by entering "3700". For another example, "373" can be used by entering "3730". This feature applies only to the GEM-RP8LCD, not the GEM-RP8 keypad.

Changing or Canceling a Code

To change any User Code, merely program over the existing code. To cancel a Code, press the number of the user to be deleted and press AWAY . The User Code associated with the user will now be deleted.

Exiting User Program Mode

To exit User Program Mode press RESET .

Notes:

- While in User Program Mode, the ARMED and STATUS lights will continue to flash and burglar and fire alarm functions are disabled.

- In selecting your codes, do not program repetitive numbers (1111), consecutive numbers (1234), your birth date, address, or other obvious combinations. If the keypad detects no Program Mode activity for more than 4 minutes, a tone will sound. Press RESET to silence.

- You can access **ZONE DESCRIPTIONS MODE** from User Program Mode by pressing MENU .

Ambush Code

The Ambush Code is a special four-digit code entered by the user to disarm, typically to cause a silent report to be sent to the central station. Thus, should the user be forced to disarm by an assailant, he can silently signal an emergency while appearing to be merely disarming the panel.

In dealer mode, program Ambush [20-4]. If enabled, the 8th User Code will send an Ambush report when entered to disarm the system.

Additional Programming required:

- Program User 8 Arm/Disarm Code.
- Select reporting to Telco 1 [36-2] or Telco 3 [56-2].

KEYPAD MESSAGES

The GEM-RP8LCD Keypad can display the following messages. **Note:** Refer to OI276.

ALARM - Alarm condition, followed by one or more zone descriptions.

ALARM MEMORY - Appears after an alarm condition and a valid code is entered or when alarm condition times out. Warns of a past alarm condition.

BELL TEST - Appears after entering this Function Menu item that initiates bell test. Enter this command to turn on the Bell, keypad sounder and keypad LED's for 2 seconds.

BYPASSED ZONES - Displays one or more zones bypassed.

CAN'T ARM SYSTEM - Arming attempt made, but system condition prevents arming.

CAN'T ARM SYSTEM...PRESS RESET - Displays when arming is attempted with the Fire icon on or system troubles displaying. Solution is to press the RESET button and then arm the system.

CAN'T ARM SYSTEM...SILENCING - Displays when the bell is on and a valid code is entered.

CAN'T ARM SYSTEM...ZONE FAULTED - Displays when arming is attempted with a Zone in trouble. Secure zone (or bypass) before arming.

DEALER PROGRAM MODE - Appears after entering a valid Dealer Code and entering Dealer Program Mode.

DIRECTORY - Displays a list of all zone descriptions.

DISARM NOW XXX SECONDS - Entry delay in progress. XXX = Entry time remaining in 2-second decrements.

ENTER CODE FOR PROGRAM MODE - Appears after Function Menu item is selected to Activate Program Mode. Enter your code then press ENTER to enter Program Mode.

ENTER CODE FOR USER x - Enter the number of the user to be added or changed, enter the 4 digit code.

ENTER DEALER CODE TO EXIT - In Dealer Program Mode, appears after pressing [Menu] [8]. You must enter the Dealer code to leave Dealer Program Mode.

ENTER LOCATION <   > - In Dealer Program Mode, enter a 2-digit location number (see programming sheet).

FAULTED ZONES - One or more zones not secured. Status of zone description(s) displayed.

FIRE ALARM - Alarm condition on a Fire Zone. Enter your code then press ENTER to silence the sounder.

FORCED RESET - Appears when pressing [1] [2] and [3] simultaneously.

INVALID ENTRY TRY AGAIN - Wrong code entered.

LCD TO LCD TRANSFER OPTION - Zone descriptions and other keypad configuration information can be transferred from the programmed keypad (Sending) to the unprogrammed others (Receiving) in the system.

NONE - May appear if message "ZONE FAULTED" displays--but the zone clears after entering the Function Menu.

OUT OF SYSTEM - Appears about 30 seconds after disconnecting (or shorting to ground) the green data wire. Also appears after disconnecting the data wire and pressing RESET. This message must display in order to access Keypad Configuration Mode.

PLEASE EXIT XXX SECONDS - Displays exit delay time in 2-second decrements.

READY TO ARM - All zones operating; system can be armed. ("SYSTEM READY" is an alternate equivalent message).

RECEIVING - Appears while receiving Keypad Configuration or Zone Descriptions from a Quickloader or another RP8LCD keypad that is sending data.

RP CONFIGURATION MODE - You are entering the RP8LCD Configuration mode. Changes in this mode are stored in the keypad.

RP VERSION - Software version appears when entering Keypad Configuration Mode.

SENDING - Appears while sending Zone Descriptions to another RP8LCD

SENDING STOPPED - PLEASE WAIT - When large amounts of data are transferred, pauses may appear for a few seconds, accompanied by this message.

SYSTEM ARMED - Panel armed.

SYSTEM READY - All zones operating; system can be armed. ("READY TO ARM" is an alternate equivalent message).

-->TO START PRESS THE ENTER KEY - Initiate the LCD to LCD Transfer Option by pressing Enter on the keypad.

USER PROG. MODE USERS =   12345678 - Enter the number of the user to be added or changed and enter the 4-digit code.

ZN DESCRIPTIONS MODE - You are entering the Zone Descriptions Mode which allows you to change and update the zone descriptions which appear on the keypad display to suit the particular design of the protected premises

ZONE FAULTED - One or more zones not secured.

System Troubles

AC Failure - Power failure. Check power transformer. Check for blown fuse or circuit breaker; general power outage.

Bell Wire Cut - Bell wire severed (open on bell circuit).

Fail to Comm - Unsuccessful communication to central station. Note: Will also display if panel is improperly programmed to report: i.e., Report Alarm, Report Codes, Subscriber ID Numbers, etc. Must be programmed.

Telco Line Cut - Telephone line cut or system down.

Low Battery - Battery below 11 volts. If not recharged within 48 hours after AC is restored, replace battery.

Rcvr or Ezm Tbl - EZM module cover removed, or keypad EZM not responding, or receiver not responding.

RF Receiver Jam - Receiver not responding/jammed.

RF LB / ZnXX - Burglar Transmitter Low Battery. XX = The zone number to which the transmitter is mapped. Replace Battery.

RF SUP ZnXX - Supervisory Burglar Transmitter Indication--panel has not received a signal from the transmitter within 12 (default) hours or programmed time. XX = The Zone number to which the transmitter is mapped. Replace Battery.

RF Smk LB #XX - Smoke Detector Low Battery. XX = The smoke detector number as programmed in the panel. Replace Battery.
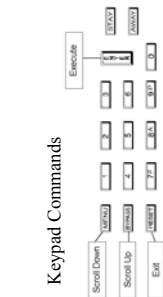
RF Smk SUP #XX - Supervisory Smoke Detector Indication. Panel has not received a response from the transmitter within 4 (default) hours or programmed time. XX = The smoke detector number as programmed in the panel. Replace Battery.

Fire Trouble - Appears when an open in the hard-wired smoke detector exists.

Zn Trouble #XX - Appears when a zone trouble exists. The panel has one or more of the following 3 troubles: Zone Short (P800 panels only), Transmitter Tamper or Dual Tech Self Test Fail. XX = The Zone number.

RP (KEYPAD) CONFIGURATION MODE

Feedback Beep
Presently ON/OFF

Keypad Sounder
Presently ON/OFF

E/E Countdown
Presently ON/OFF

Display Zn Fault
Presently ON/OFF

Keypad PGM Opt
Presently ON/OFF

Dialer Test Opt
Presently ON/OFF

Easy Exit Option
Presently ON/OFF

Ready Msg Option
Presently ON/OFF

Keypad Panics
F=4 A=2 P=1   7

Keypad Address
1

EZM Address
Disable=0   2

EZM Zones Enable
Zn1=1 Zn2=2   3

EZM Zones 50 ms
Zn1=1 Zn2=2   3

Access Control
Message   0

Exit Delay Time
Display   030

Entry Delay Time
Display   020

GEM-RP8LCD Keypad

Remove Green wire from "Remote Bus" Panel terminal, (Press RESET): "OUT OF SYSTEM"

Enter Factory Code: 11123 and Press MENU

Software RP version number appears

RP CONFIGURATION MODE

- Press [DISARM] to enter changes
- MENU to scroll to next selection
- BYPASS to scroll to previous selection

Press STAY ("LCD TO LCD TRANSFER OPTION")

Connect all green wires from all keypads (Do not connect green wires to panel). Press [DISARM] to begin transfer.

Press RESET ("ZN DESCRIPTIONS MODE")

Press RESET to Exit Reconnect Green wire(s) to Remote Bus Panel Terminal ("SYSTEM READY")

Press MENU to repeat list

Exit to Normal Operation

KEYPAD PROGRAMMING MODES

FUNCTION MENU / PROGRAM MODE

FUNCTION MENU (Keypad Disarmed) Press MENU

Keypad Commands

KEYPAD MESSAGE	CONDITION
DISPLAY ZN FAULTED	If Zone Faults?
DISPLAY ZN BYPASSED	If Zone Bypasses?
DISPLAY SYSTEM TRBL	If System Trouble?
DISPLAY ZN DIRECTORY	Always appears
ACTIVATE BELL TEST	Always appears
ACTIVATE DIALER TEST	If enabled in Keypad Configuration Mode
DEACTIVATE CHIME	Always appears
DEACTIVATE KEYPAD SOUNDER	Always appears
ACTIVATE EASY EXIT	If enabled in Keypad Configuration Mode
ACTIVATE ACCESS	If enabled in Keypad Configuration Mode
ACTIVATE PROGRAM	Always appears
ACTIVATE FAULT FIND	Always appears
ACTIVATE DOWNLOAD	Always appears

Repeat

PROGRAM MODE Press [DISARM] to select. ("ENTER CODE FOR PROGRAM MODE") Enter code and press [DISARM].

Dealer Program Mode (Dealers only—see Panel documentation)

USER PROGRAM MODE ("ENTER CODE FOR USERS= 1 ") Press MENU to advance to Zone Descriptions Program Mode

ZONE DESCRIPTIONS MODE ("ZN DESCRIPTIONS MODE") Press RESET to Exit

Press RESET to Exit at any time

Exit to Normal Operation

Repeat

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This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

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