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# GEM-K1VPS Keypad

## INSTALLATION INSTRUCTIONS

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WI1808 3/09

### GENERAL DESCRIPTION

The NAPCO GEM-K1VPS keypad are "smart" user-friendly, voice-interactive menu-driven keypads with UL-approved PIR and siren designed for use with the NAPCO GEM-P1664 control panel.

The GEM-K1VPS keypad is armed by entering a valid user code and pressing **STAY** or **AWAY**; they both provide an alphanumeric screen to display the status of your system (in addition, a programmable option exists for "Hold Down **STAY/AWAY** Arming"). The integral speaker in the keypad provide step-by-step instructions to guide the user through all operations. The GEM-K1VPS combines all of the above features with the addition of an integral wide-angle PIR motion sensor and integral siren to provide fast and easy installation. **Note:** In UL installations, a small acoustic cloth that covers the siren module must be removed to comply with UL Audibility requirements. (See page 13 for more information).

### INTEGRAL PIR SENSOR

The GEM-K1VPS keypad's microprocessor-controlled PIR motion sensor is considered a standard PIR detector that, when enabled, activates the first zone of the integral EZM only in the armed state (for ease of arming, the PIR is not active when the system is disarmed. Note that the PIR can be tested when disarmed using the PIR test menu option in the *Keypad Menu Mode*). If the system is armed in the Away mode, the keypad PIR will generate an alarm if an intruder is detected (in this case, the system may only be disarmed and silenced by the entering a valid user code at the keypad). **Note:** The keypad PIR occupies the first zone of the integral EZM when the PIR is enabled; therefore be sure to enable the first zone of the integral keypad EZM when using the keypad PIR. The PIR zone should also be programmed as a STAY zone and E/E Follower zone. In addition, the keypad PIR is used to make decisions for initiating certain voice prompts, and is also used to control the keypad back-lighting to reduce system standby current, thus increasing energy conservation (see page 3).

### INTEGRAL 4 ZONE EZM

Both keypads contain an integral 4 zone EZM, allowing the zone capacity of the control panel to be expanded. With the GEM-P1664 control panel, installing 4 keypads adds a total of 16 zones to the system.

Additional GEM-EZM's and/or GEM-EZM4-8's can also be added, thus maximizing the capacity of the GEM-P1664 control panel to a grand total of 64 zones within the system. **Note:** If using the keypad PIR, be sure to enable the first zone of the integral keypad EZM.

### INSTALLATION

Each of up to 7 keypads can be installed on the GEM-P1664 control panel 4-wire bus. See Control Panel Installation Instructions for maximum control panel loading. The GEM-K1VPS includes an integral siren that produces 85dB (at 10 feet) as required for UL Residential Burglar and Fire. At least one keypad shall be powered by the control panel.

### POWER

The GEM-K1VPS is powered by the keypad bus of the control panel or an appropriately rated UL Listed Security/Signaling power limited power supply rated 12VDC. The voltage rating for all models is 11.7 - 13.9VDC, 70mA standby and 210mA in alarm. For fire installations, the keypad shall be powered by the control panel only, or use an external Listed audible signaling device on the control panel Bell circuit. The standby current may be reduced by cutting jumper "W1" which disables the keypad backlighting entirely. Deduct these values from the system standby current, as described in the control panel wiring diagram.



### INSTALLATION PROCEDURES

After wiring and mounting the GEM-P1664 control panel, turn to page 4 and begin the procedures necessary for installing a GEM-K1VPS keypad. After completing the procedures, return to this section to configure the other options necessary for each keypad installed in the system, as detailed in the next section **Configuring the Keypad**, below.

#### A. CONFIGURING THE KEYPAD

If not in already, enter **Keypad Configuration Mode** by placing the GEM-P1664 panel jumper in Configuration Mode, the keypad LCD text will display "OUT OF SYSTEM" within 60 seconds (you can also press keypad buttons 1, 2 and 3 simultaneously to display "OUT OF SYSTEM"). Press "11123" and press **MENU** to enter the Keypad Configuration Mode.

Once the Keypad Configuration Mode is accessed,

all messages will display in the order shown below (press **MENU** to scroll through the list or press **RESET** to exit). For more complete information, see the GEM-P1664 panel programming instructions, WI1810. :

- KEYPAD BEEP
- ENTRY SOUNDER
- KEYPAD ADDRESS
- EZM ADDRESS
- ZONE RESPONSE
- BACKLIGHT BRIGHTNESS
- PIR
- BACKLIGHT FOLLOW PIR
- SIREN
- TAMPER DETECT

#### B. EASY MENU DRIVEN PROGRAM MODE

Program the panel using the *Easy Menu Driven Program Mode* (or use PCD-Windows Quickloader Download software). See page 9. For complete details, see programming instructions WI1810.

#### C. TEST EACH KEYPAD PIR

**Note:** If the PIR is not enabled, this selection is not available in *Keypad Menu Mode* (see page 12). Enter a valid user program code (a code programmed by the Dealer to allow user programming and higher functions) and enter the *Keypad Menu Mode* by pressing **MENU**. Press **NO** until "ACTIVATE PIR TEST" appears in the LCD window and perform a walk test of each keypad PIR as follows:

Allow at least 3 minutes for the unit to settle. Test the PIR by walking in front of the keypad across the protected area. When the PIR senses activity, the display indicates the violated zone and the keypad sounder turns on. Walk out to the maximum range and walk across the field of coverage. Check for environmental disturbances with all disruptive devices (heaters, air conditioners, etc.) turned on and with no human activity within the coverage area.

#### D. TEST KEYPAD SIREN

In the *Keypad Menu Mode*, press **MENU** until **Test Siren** appears, then press **YES**. Siren will sound at full volume for 2 seconds.

#### E. TEST THE SYSTEM

After completing all tasks, perform a test of the entire system, including all keypad(s) and zones.

### PANEL PROGRAMMING OVERVIEW

For proper system operation, the GEM-P1664 control panel is pre-programmed at the factory with features selected for proper operation. The panel can be re-programmed using either Easy Menu Driven Program Mode (see page 9) or by using PCD-Windows Quickloader Download software.

The features listed below are presented here for in-

formational purposes only--NO additional programming is needed--there is no need to enter Direct Program Mode and make additional changes unless special conditions of the installation require additional programming as determined by the installer.

There are two features that should be noted:

1. "Interior Normally Bypassed Mode" must be *disabled* (address 1422; in PCD-Windows Quickloader, this feature is located in the **System Options** screen).
2. **All Interior (Stay) zones including the mapped integral PIR should be programmed with:**
  - AUTO-BYPASS
  - AUTO-BYPASS RE-ENTRY
  - SELECTIVE BYPASS
  - BURG OUTPUT
  - AUTO-RESET
  - SWINGER SHUTDOWN
  - EXIT / ENTRY FOLLOWER
  - INTERIOR (STAY) BYPASS
  - POWER-UP DELAY

**Note:** When programmed through the built-in Easy Menu Driven Program Mode of an GEM-K1VPS keypad, these features are automatically applied. See the programming instructions WI1810 for more information.

# GEM-K1VPS

## "SMART" PIR BACKLIGHTING

Keypad backlights turn on when activity is detected in front of the keypad.



The GEM-K1VPS keypad's integration of a PIR motion sensor, an adjustable blue backlight display\* and voice prompts provide a keypad that adapts to various conditions and actually talks the user through system operation during critical events such as silencing an alarm.

- If no activity is detected in the area of the keypad for *4 minutes*, the display dims. When activity is sensed, it brightens the display along with the keypad button backlighting. This is an excellent feature for installation in a bedroom where a bright backlit display is not usually desired.
- If the system is in alarm and it is determined that a person is approaching the keypad, the *system turns off the siren for 15 seconds and through voice prompts talks the user through silencing the system*. If a valid code is not entered, the siren will resume sounding.
- During entry delay, *the display brightens--along with the keypad button backlighting--and voice prompts talk the User through code entry and system disarming*.

**Note:** "Smart" PIR Backlighting is enabled by default. In **Keypad Configuration**, BACKLIGHT BRIGHTNESS = LOW and BACKLIGHT FOLLOW PIR = ON (see page 11 for details).

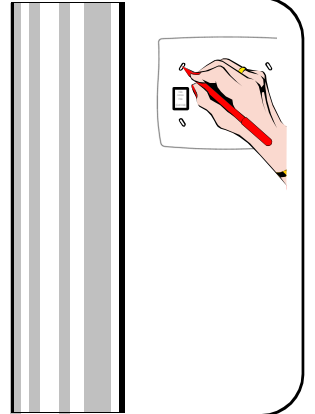
## INSTALLING THE KEYPAD

- 1 Open the Keypad.**  
Remove the front of the keypad housing:

Insert a screwdriver into the two (2) slots located in the bottom of the keypad. Twist the screwdriver to detach the front of the keypad housing.

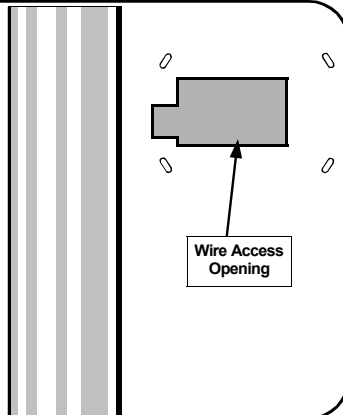


- 2 Mark the holes.** Affix the template (see page 16), to the wall. Mark or punch through the 4 oval mounting holes and the wire access opening.



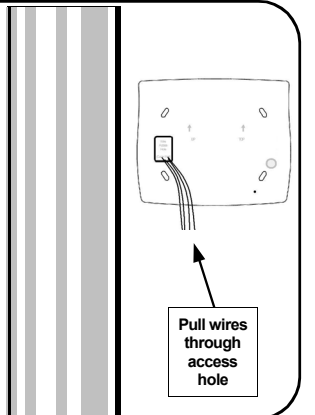
- 3 Cut access hole**  
Install (4) wall anchors and cut access hole in wall. Pull 4 conductor bus wire into opening. Use template as needed.

**Warning:** Use caution when cutting holes. There may be high voltage wiring in wall.



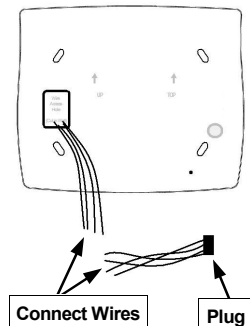
- 4 Pull wires through access hole**  
Pull the 4 conductor bus wire and zone wiring from the control panel through the access hole opening in the wall.

Next, be sure to insert the wires through the hole in the keypad base. Then secure the keypad base to the wall.



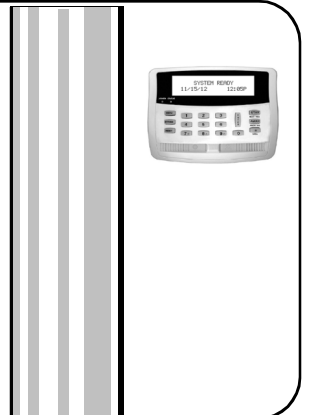
- 5 Make Connections**

With keypad base secured to the wall, solder or crimp bus wires to the keypad connector plug using the wiring diagram as a guide. **Note:** Before connecting, wires can be cut to a shorter length to allow excess wires to be pushed back into the access hole opening in the wall.



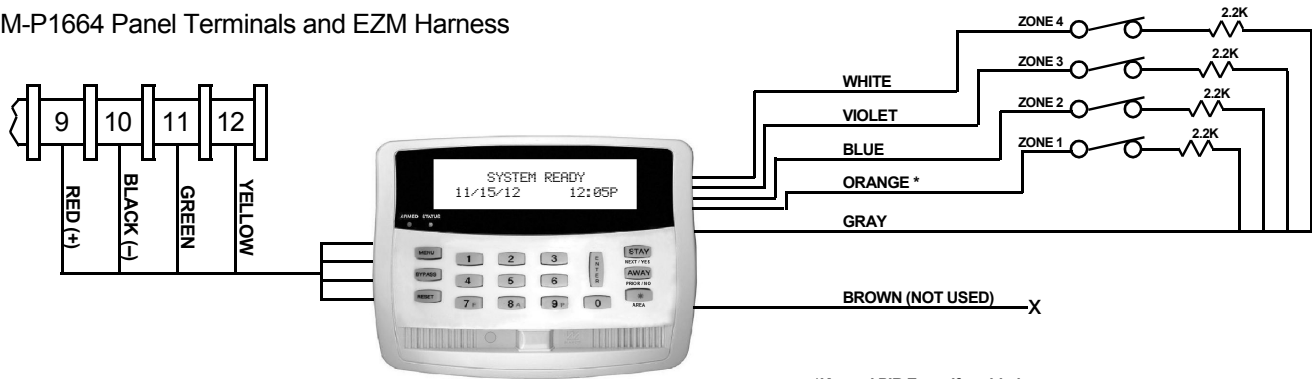
- 6 Install the Keypad Face**

Double-check all connections to the keypad using the wiring diagram as a guide. Snap the front of the keypad onto the base by first inserting the 2 slots in the top onto the corresponding tabs on the base and then snapping the bottom into place.



## GEM-K1VPS KEYPAD WIRING DIAGRAM

GEM-P1664 Panel Terminals and EZM Harness



## INSTALLING MULTIPLE KEYPADS

Up to seven (7) keypads can be installed in one GEM-P1664 control panel. Each keypad is configured at the factory to be "keypad #1"; all additional keypads must have their keypad number changed via **Keypad Configuration Mode** (see page 10 for instructions).

## GEM-P1664 REMOTE BUS TERMINALS

- Terminal 9** - Red wire, positive 12VDC.
- Terminal 10** - Black Wire, negative (-) GND.
- Terminal 11** - Green Wire (data)
- Terminal 12** - Yellow wire (data)

## EZM HARNESS

- Zone 1** - Orange & Gray wires
- Zone 2** - Blue & Gray wires
- Zone 3** - Violet & Gray wires
- Zone 4** - White & Gray wires

## GEM-K1VPS KEYPAD PIR

The GEM-K1VPS keypad includes an integral PIR sensor which provides the following system functions:

### Intrusion Protection Device

When the system is armed AWAY, the PIR provides intrusion protection with a range of 25' at a 90° pattern of protection. An intruder detected in this protected area will cause the Zone mapped to the keypad EZM Zone #1 to go into alarm with a corresponding central station report. **NOTE:** If keypad PIR Intrusion Protection is not desired, it may be disabled in Keypad Configuration Mode (see page 10 for more information).

### Presence Detection

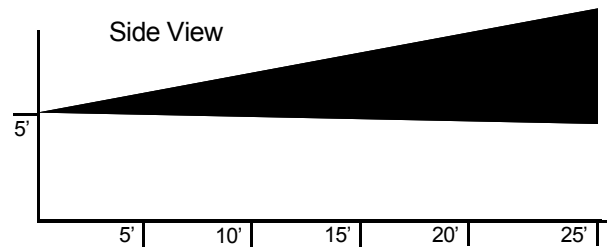
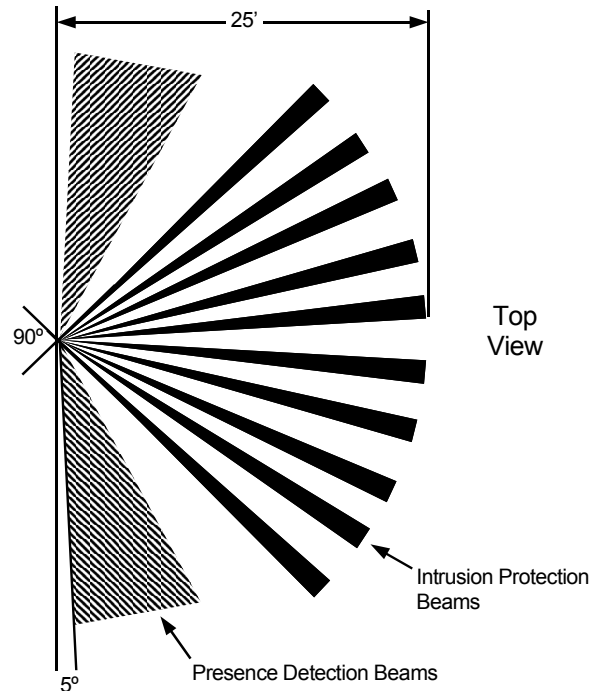
The keypad PIR also includes 2 side beams which provide presence detection. These side beams provide a 170° pattern of protection, which is intended to prevent an intruder from walking along the wall towards the keypad. If an intruder is detected in the presence detection zone, the keypad backlight may brighten and depending on the system state, certain voice messages may be prompted. In cases where an extremely large signal is generated in the Anti-Tamper zone, an actual alarm may occur on the zone mapped to the keypad PIR (if enabled).

**NOTE:** If there are windows on the wall on which the keypad is mounted, they should remain closed while system is armed in order to prevent a draft from tripping the presence detection beams.

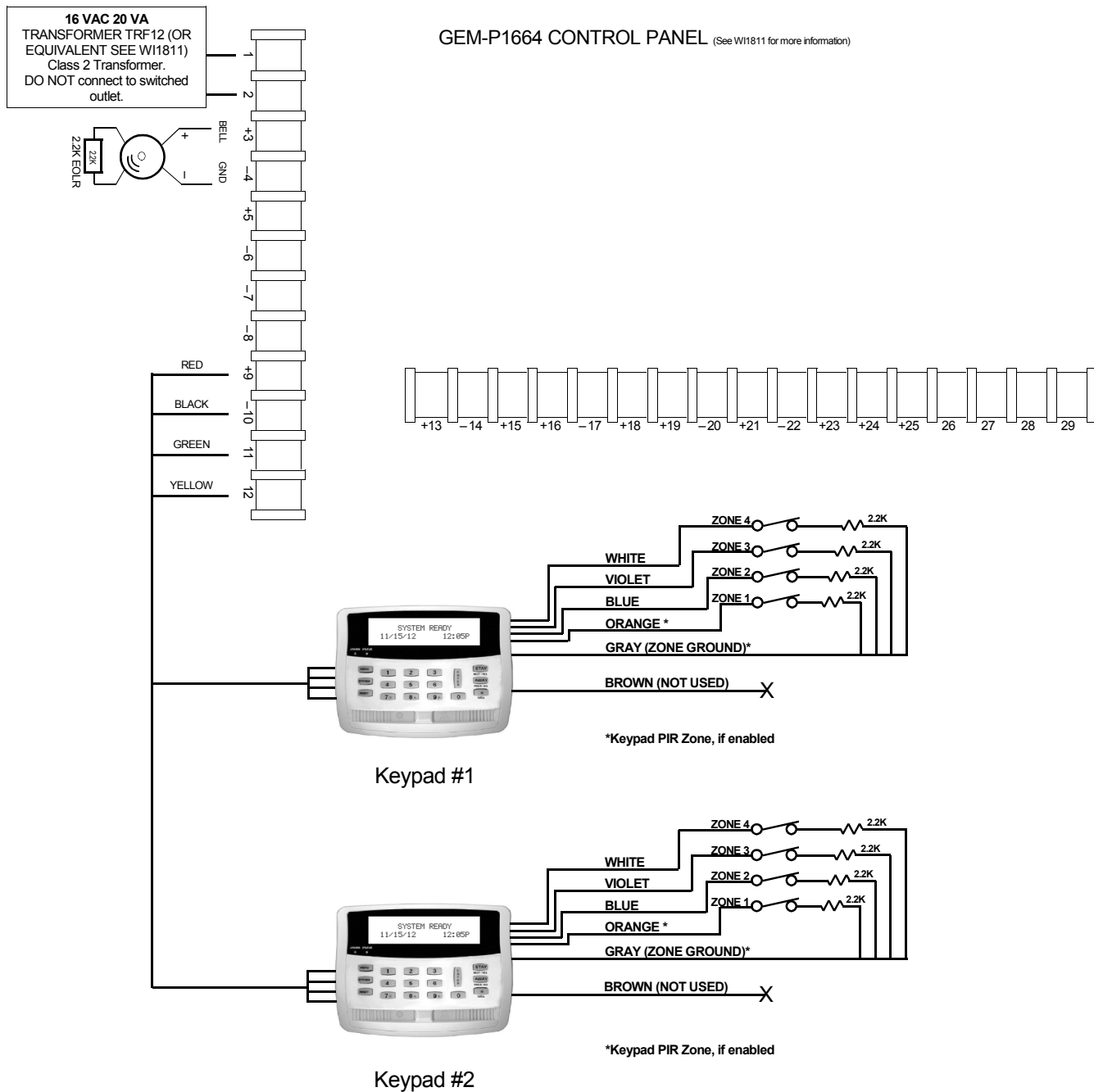
### Programming to Enable Keypad PIR

The keypad PIR occupies the first zone of the integral EZM when the PIR is enabled; therefore be sure to enable the first zone of the integral keypad EZM when using the keypad PIR.

1. Enable EZM Address other than (00) for this keypad.
2. Program the control panel for the appropriate number EZM. Also program the 1st zone of each integral keypad EZM (Zone 9 = EZM #1, Zone 13 = EZM #2, etc). as a **STAY** zone and also as an **Exit/Entry Follower** zone.



# SYSTEM OVERVIEW



\* Any of the 3 gray wires may be used as a zone ground.

# TROUBLESHOOTING

## KEYPAD LIGHTS (ON FRONT OF KEYPAD) FAIL TO TURN ON WHEN POWER APPLIED

Check Keypad power wires (red and black wires).

## KEYPAD LCD WINDOW DISPLAYS "OUT OF SYSTEM" WHEN POWER APPLIED

Green wire either open or shorted. In addition, if a system trouble appears, the yellow wire is open or shorted.

## THE KEYPAD FAILS TO CHIME\* WHEN OPENING THE DOOR

1. Be sure Chime is enabled by entering the Keypad Menu Mode. On the keypad, press **MENU** until "Deactivate Chime" appears, thus indicating Chime is currently enabled. If "Activate Chime" appears, Chime is currently disabled (press **YES** to enable).

2. Verify the control panel is programmed for Chime to function in the system. Also verify Chime Time is programmed. See WI1810 for programming instructions).
3. Check the door contact continuity and operation.

## THE SYSTEM DOES NOT ARM

1. On the keypad, the green READY light should be on. If the READY light is not on, there is a zone faulted. All zones must be secured for the system to be able to arm. **Note:** Faulted Zones will scroll in the keypad LCD Window.

\* The GEM-P1664 Control Panel may be programmed to disable Chime.



# DEALER PROGRAM MODE OVERVIEW

EASY MENU DRIVEN PROGRAM MODE
# of Zns in Area 1*
EZ Zone Doubling Enabled?*
Fire Zones*
2-Wire Fire Zns*
Report All Zones To Central Station?*
Exit/Entry Zones*
Interior Zones*
24 Hour Zones*
Chime Zones*
Chime 2 Zones*
Exit/Entry 2 Zns*
50ms Loop Zones*
Aux Output Zones*
Sensor Watch Zns*
KP Sndr Alrm Zns*
Auto Byp REnt Zn*
Enable No EOLR Zones*
Enable Telco Line Test?*
Enable Burg Out Chirp?*
Enable SIA-CP01*
# Area 1 Keypads
Central Phone #
Central Station Account #
See WI for Info Rcvr Format
Enter user code
ZN# XMIT#+CS P
KF A XMIT#+CS 0P
01- <ZONE DESCRIPTIONS>
Enter Date
Enter Time
Dealer Code
Test Timer

Dealer Program Mode comprises two operational states:

- **EASY MENU DRIVEN PROGRAM MODE** - Used with new "out of the box" panels (or "Cold Started" panels, see address 2286), this mode allows the dealer to customize the factory panel program to best suit the installation. The **Easy Menu-Driven Program Mode** is a menu-driven utility that prompts the installer to configure the system. Press **RESET** at any time to exit, thus entering **Direct Address Program Mode**, detailed below.
- **DIRECT ADDRESS PROGRAM MODE** - Additional programming changes, if necessary, can be made in the **Direct Address Program Mode**. In this mode, the programming address is accessed directly and re-configured by the installer.

**TYPICAL USER:** Dealers / Installers only.

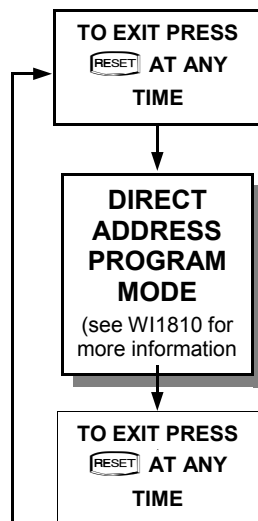
**TYPICAL INTERFACE:** an GEM-K1VPS keypad.

**HOW TO ENTER:** Press the factory-installed default *Dealer Code*:

**4** **5** **6** **7F** **8A** **9P** **MENU**. Press **AWAY ("NO")** until

"ACTIVATE PROGRAM Y/N" appears on LCD screen. Press **STAY ("YES")** to enter the **Easy Menu-Driven Program Mode**. See Programming Instructions (WI1810) for additional information regarding the **Easy Menu Driven Program Mode**.

To exit, press **RESET** to enter **Direct Address Program Mode** and press **RESET** once again to exit **Dealer Program Mode**.



\* **Initial Configuration Only** (new or memory cleared panel); suppressed thereafter. Normal entry mode for previously programmed panel starts at "# AREA 1 KEYPADS".

# KEYPAD CONFIGURATION MODE

This section concentrates on configuring the GEM-K1VPS keypad.

## KEYPAD INSTALLATION

Each keypad must be assigned an address number (1-7). Each keypad requires its own configuration procedure because all Keypad Configuration Mode changes are retained within each individual keypad only (see CONFIGURING THE KEYPADS, below). At least one (1) keypad must be used; only one is required for a single-area Commercial Burglary installation.

## CONFIGURING THE KEYPADS

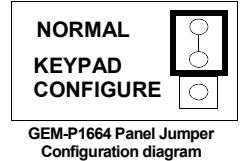
**Keypad Configuration Mode** provides an exclusive set of menu options used to change the properties of each individual keypad to suit each installation.

- **TYPICAL USER:** Dealers and installers only.
- **TYPICAL INTERFACE:** Keypad only.

Each keypad must be configured for the following items: *Keypad Beep, Entry Sounder, Keypad Address, EZM Address, Zone Response, Backlight Brightness, Tamper Detect, PIR, Backlight Follow PIR and SIREN.*

### To enter the Keypad Configuration Mode:

1. You can either move jumper JP1 (located in the center of the GEM-P1664 control panel board) from pins 1-2 (top two "NORMAL") to pins 2-3 (bottom two "KEYPAD CONFIGURE") --or-- you can press keypad buttons 1, 2 and 3 simultaneously. **NOTE:** See wiring diagram at the end of this manual and the jumper configuration diagram at right.
2. After a short delay, the display will read "OUT OF SYSTEM XX", where "XX" indicates the keypad address.
3. Press "11123" and press **MENU** to for 2 seconds on the installed keypad to enter **Keypad Configuration Mode** and proceed as follows. (Repeat the following procedure for all keypads in the system).



Once the **Keypad Configuration Mode** is accessed, all messages will display in the order shown below.

KEYPAD BEEP ON

### Keypad Beep

Upon entering the Keypad Configuration Mode, "KEYPAD BEEP ON" is displayed, indicating that the tactile beep, which sounds when any button is pressed, is on. To turn off the tactile beep, press the **ENTER** button; to turn the tactile beep again, press **ENTER**. Default is beep "ON". Press **MENU** to continue or press **RESET** to exit.

ENTRY SOUNDER ON

### Entry Sounder

To turn off the keypad entry sounder during entry time, press the **ENTER** button; to turn on the entry sounder, press **ENTER** again. Default is sounder "ON". Press **MENU** to continue or press **RESET** to exit.

KEYPAD ADDRESS 01

### Keypad Address

If more than one keypad is installed, each must be assigned a unique keypad address--that is, no two keypads may be numbered alike. Keypads must be numbered consecutively (missing numbers are not permitted).

#### To assign the keypad number, proceed as follows:

1. At the keypad, press the number keys (valid entries are "01"--"07") and press **ENTER**. For example, for keypad #2, press "02" and then press **ENTER** to save. **Note:** Default entry is "01". An entry of zero-zero ("00") will not be accepted.
2. Press **MENU** to continue or press **RESET** to exit.

EZM ADDRESS 00

### EZM Address

The keypad's internal EZM (Expansion Zone Module) may be utilized to provide four additional wired zones. Whether used alone or in conjunction with optional GEM-EZM series modules or other keypad EZMs, it must be assigned a unique address (or Group number) similar to its keypad address. If no other EZMs are to be used, designate the keypad as Group "01" at the "EZM ADDRESS 00" display. In multiple-EZM systems, enter an assigned group number "01" through "14" and press **ENTER**. For example, for EZM #3, press "03" and then press **ENTER** to save. Each EZM must have a unique assigned Group number, starting with "01" and proceeding consecutively. Default is "00". Press **MENU** to continue or press **RESET** to exit.

ZONE RESPONSE 00

### Zone Response

The normal (default) loop response of each keypad EZM expansion zone is 750mS. Changing this response time may be required when some devices require a faster loop response, such as *Glass Break* sensors, and thus 50ms can be programmed. Do not program in UL installations (UL requires 750ms be programmed). The response time of any zone can be reduced to 50mS as follows.

1. Of the following, circle the number(s) in parentheses associated with the zone(s) to be changed: Zone 1=(1); Zone 2=(2); Zone 3=(4); Zone 4=(8).
2. Add up the circled numbers.
3. At the keypad, enter the sum as a two-digit number "01" through "15". **Note:** Default entry is "00". Press **MENU** to continue or press **RESET** to exit.

**Example:** Change Zones 2, 3 and 4 to 50mS response.

1. Circle numbers for Zones 2, 3 and 4: Circle (2), circle (4) and circle (8).
2. Add up the circled numbers: 2 + 4 + 8 = 14.
3. Enter "14" at the keypad and press **ENTER**. Press **MENU** to continue or press **RESET** to exit.

BACKLIGHT BRIGHTNESS	LOW
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### Backlight Brightness

To adjust the brightness of the LCD window, press **YES** to increase and **NO** to decrease. Selections are **LOW**, **MED** and **HIGH**. **Note:** Selections repeat if either the **YES** or **NO** buttons are pressed repeatedly. Default is "LOW". If intending to enable "**Backlight Follow PIR**" (future menu item), set this entry to "LOW". Press **MENU** to continue or press **RESET** to exit.

PIR	NO
-----	----

### PIR

When disabled, the PIR will NEVER trigger an alarm. When enabled, the PIR will activate an alarm ONLY when armed Away. Press **ENTER** to toggle between enable and disable. Default is "NO" (disabled). Press **MENU** to continue or press **RESET** to exit.

When enabled, the following additional keypad configuration options and panel programming must be performed to ensure desired operation:

1. Enable EZM address (other than "00") for this keypad.
2. Program the panel for the appropriate number of EZM's and also program zone 1 of this EZM (Zone 9 if EZM1, Zone 13 if EZM 2, etc.) as a STAY zone and as an E/E Follower Zone.

BACKLIGHT FOLLOW PIR	ON
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### Backlight Follow PIR

Turns keypad backlight on when person is detected in front of the keypad (default). To turn off this backlight, press **ENTER**; to turn on the backlight, press **ENTER** again. Keypad Configuration Mode entry **Backlight Brightness** should be set to "LOW". Default is "ON". Press **MENU** to continue or press **RESET** to exit.

SIREN	ON
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### Siren

When enabled, the integral siren will follow the control panel Bell output. To comply with UL Audibility requirements for sole sounding device, see page 13. To disable the siren, press the **ENTER** button; to enable the siren, press **ENTER** again. Default is "ON". Press **MENU** to continue or press **RESET** to exit.

TAMPER DETECT	NO
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### Tamper Detect

Enable or disable the monitoring of the Tamper switch located on the keypad circuit board. The tamper monitors both the front keypad case and the rear keypad mounting surface. If the front case is opened or if the keypad is removed from the wall, the tamper switch is activated (displays Keypad Tamper system trouble "E11-XX", where XX is the address of the keypad detected by the panel). To disable the Tamper switch, press the **ENTER** button; to enable, press **ENTER**. Default is "NO" (disabled). Press **MENU** to continue or press **RESET** to exit.

 To **exit** Keypad Configuration Mode, press **RESET**.

# KEYPAD MENU MODE

The keypad can provide access to a wide assortment of utility functions, each displayed on the keypad LCD window in a prompting "YES/NO" format. This keypad menu is not necessary for panel programming, but is included here for reference.




**TYPICAL USER:** Homeowner.

**TYPICAL INTERFACE:** Keypad only.

**HOW TO ENTER:** At the installed keypad, press a valid user code and press **MENU** to enter. All messages in the **Keypad Menu Mode** are listed below, but some messages may not appear in the keypad display for certain user code types; if the required condition is not present; or if the GEM-P1664 control panel is configured in such a way as to remove the message from this Menu. For example, "DISPLAY ZN FAULTS Y/N" will only display if zones are faulted.

In the Keypad Menu Mode, there are three levels, each allow-

ing a different set of messages to appear:

- **Entering a standard User Code or pressing ** **only:** Displays those standard functions needed for normal operation.
- **Entering a User Code enabled by the Dealer for User Program Mode before pressing **: Displays the standard functions described above and additional higher security functions.
- **Entering the Dealer Program Code before pressing **: Displays all functions.

With each message, press **YES** to proceed with the change or **NO** to skip to the next selection. **Note:** Highlighted messages are sub-menu selections.

ALL MESSAGES IN MENU	NOTES
DISPLAY OPEN ZONES Y/N	Will display open zones only when a zone is faulted.
DISPLAY ZN BYPASSED Y/N	Scrolls list of bypassed zones (cannot unby pass from this selection).
DISPLAY ZN DIRECTORY Y/N	Allows you to scroll through zone descriptions and also allows individual zones to be bypassed. Press <b>NEXT</b> or <b>PRIOR</b> to scroll through zone list.
ACTIVATE SIREN TEST Y/N	Press <b>YES</b> to activate burg relay output and integral siren (if enabled) for 2 seconds.
DISPLAY FIRE ALARM Y/N	Displays list of shorted fire zones only when a fire alarm is tripped.
DISPLAY FIRE TRBL Y/N	Displays list of troubled fire zones only when a fire alarm is tripped.
ACTIVATE CHIME Y/N	When activated, this selection reads "DEACTIVATE CHIME Y/N".
RESET SYSTEM TBL Y/N	This message appears if a trouble is found.
ACTIVATE FAULT FIND Y/N	Activates <i>Fault Find</i> mode. The Dealer Program Code must be entered for this feature to appear.
ACTIVATE DIALER TEST Y/N	<i>Test Timer</i> must be programmed to report for this option to appear. If it is desired NOT to report Test Timer to the Central Station, but you still wish this option to appear in this menu, do NOT enable Test Timer in the PCD Windows Scheduler screen (or via Direct Address programming).
DISPLAY ALARM LOG Y/N	Displays alarm events in log. The User or Dealer Program Code must be entered for this feature to appear. Use <b>NEXT</b> and <b>PRIOR</b> to scroll forward or backward through list.
DISPLAY TOTAL LOG Y/N	Displays events of all types in log. The User or Dealer Program Code must be entered for this feature to appear. Use <b>NEXT</b> and <b>PRIOR</b> to scroll forward or backward through list.
DISPLAY FIRE LOG Y/N	Displays fire events in log. The User or Dealer Program Code must be entered for this feature to appear. Use <b>NEXT</b> and <b>PRIOR</b> to scroll forward or backward through list.
DISPLAY OP/CL LOG Y/N	Displays open and closing events in log. The User or Dealer Program Code must be entered for this feature to appear. Use <b>NEXT</b> and <b>PRIOR</b> to scroll forward or backward through list.
DISPLAY SYSTEM LOG Y/N	Displays system events in log. The User or Dealer Program Code must be entered for this feature to appear. Use <b>NEXT</b> and <b>PRIOR</b> to scroll forward or backward through list.
AUTO ARM IN 1-4 HRS 0	The User or Dealer Program Code must be entered for this feature to appear.
ACTIVATE PROGRAM Y/N	Also called "User Program Mode". See Keypad User Manual for more information. The User or Dealer Program Code must be entered for this feature to appear.
ACTIVATE DOWNLOAD Y/N	Allows modem connection with <b>PC Preset</b> software. The User or Dealer Program Code must be entered for this feature to appear.
CHANGE KEYPAD BEEP VOLUME Y/N	
CHANGE VOICE VOLUME Y/N	
ACTIVATE PIR TEST Y/N	The User or Dealer Program Code must be entered for this feature to appear.

# INSTRUCTIONS FOR APPLICATIONS AS SOLE SOUNDING DEVICE

## For use only with the GEM-K1VPS

To comply with UL Audibility requirements, a small acoustic cloth that covers the siren module must be removed or a compatible UL Listed siren (Wheelock AH-12WP) must be installed on the GEM-P1664 control panel bell circuit terminals (see WI1811). To remove the cloth, follow the instructions below.

### 1 With power to the control panel off, open the GEM-K1VPS keypad.

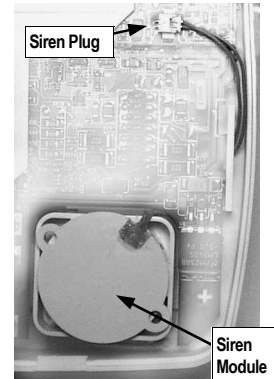
Remove the front of the keypad housing by inserting a screwdriver into the (2) slots in the bottom of pad. Twist screwdriver to remove cover.



### 2 Locate the Siren Module.

The image at right highlights the keypad Siren Module and plug, located at the bottom right of the keypad rear housing.

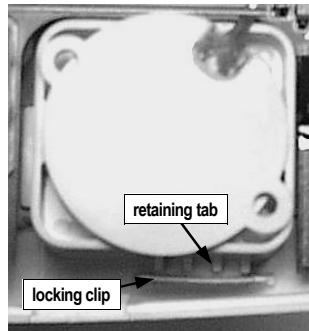
The small acoustic cloth to be removed is located under the Siren Module.



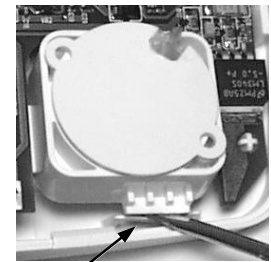
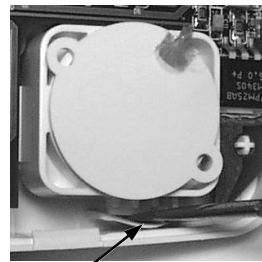
### 3 Find the retaining tab and locking clip.

As shown in the image at right, the Siren Module's retaining tab is held in place by a locking clip.

The locking clip must be pushed away from the retaining tab to unlock the Siren Module.



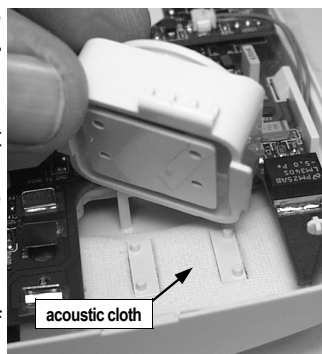
### 4 Use a small screwdriver to push the locking clip away from the retaining tab to unlock the Siren Module.



### 5 Lift the Siren Module to expose the acoustic cloth.

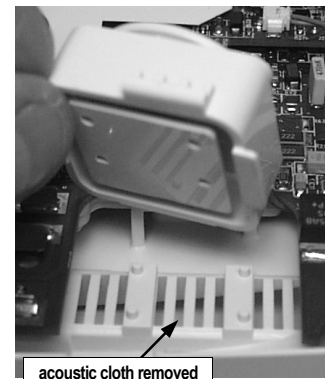
As shown in the image at right, gently lift the Siren Module, exposing the acoustic cloth.

Remove cloth and store in a safe place to be re-used if needed.



### 6 With the acoustic cloth removed, the siren dB level will be consistent with UL Audibility requirements.

Re-install the Siren Module and the keypad housing in the reverse order of removal.



# NOTES

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# MOUNTING TEMPLATE

