

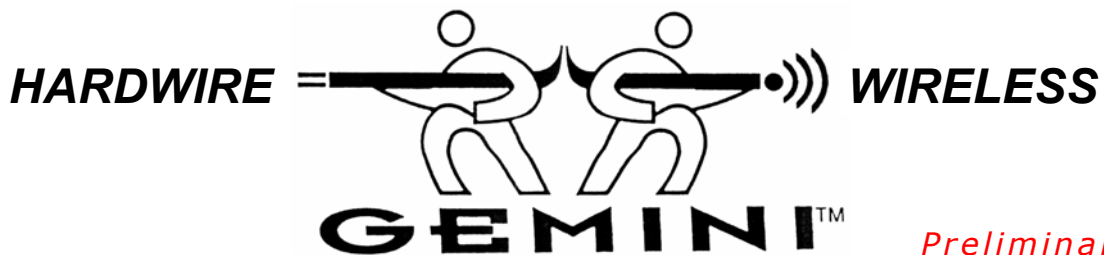


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KEYPAD PROGRAMMING INSTRUCTIONS VOLUME 1

COMPLIES WITH:

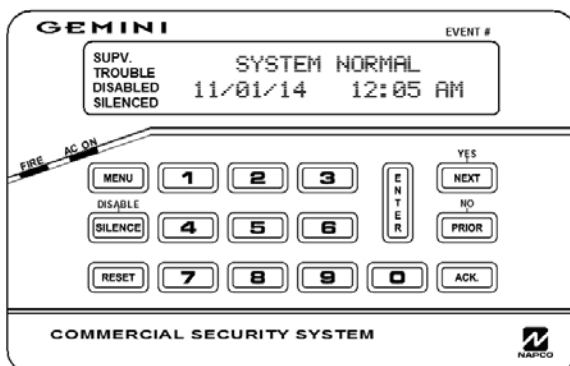
- NFPA 72 NATIONAL FIRE ALARM CODE
- UL 864 (9TH EDITION)



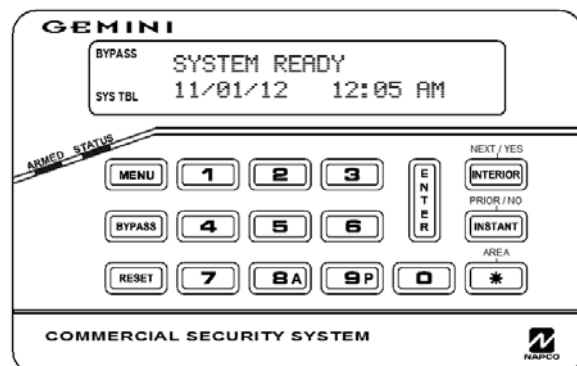
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ated 8/13/2010
2:45 PM*

COMMERCIAL / RESIDENTIAL
GEMINI C-Series CONTROL PANELS / COMMUNICATORS
Programming the Gemini C-Series Control Panels with
the **GEMC-FK1** Fire Keypad
or the **GEMC-BK1** Burglary Keypad for Burglary Only systems



GEMC-FK1 Keypad

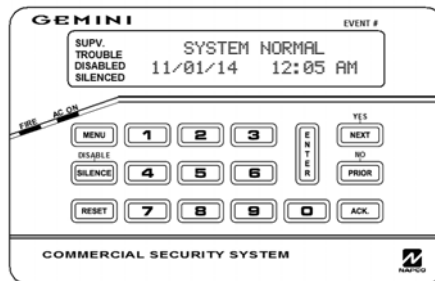


GEMC-BK1 Keypad

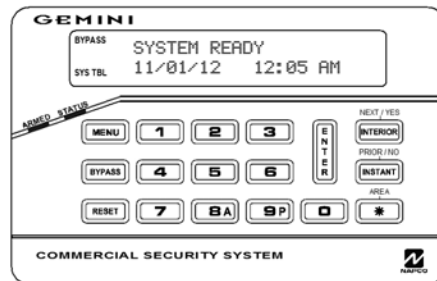
THIS MANUAL INCLUDES FEATURES WHICH ARE ONLY AVAILABLE IN CONTROL PANEL FIRMWARE VERSION 82G OR LATER, AND REFLECTS THE FEATURES FOUND IN PCD-WINDOWS QUICKLOADER DOWNLOAD SOFTWARE VERSION 6.0 OR GREATER.

IMPORTANT NOTE

The Gemini C-Series combination Fire and Burglary control panels are normally programmed with the **GEMC-FK1** Fire keypad. However, the control panel can also operate as a "Burglary Only" panel (by setting the jumper J1 located at the bottom left of the control panel), and may be programmed with the GEMC-BK1 keypad. In programming mode, the key locations used to program with the GEMC-BK1 keypad are identical to the GEMC-FK1 keypad, however only the button *labels* are different. Compare the images of the two keypads below:



GEMC-FK1 Fire Keypad



GEMC-BK1 Burglary Keypad

Note that the GEMC-FK1 keypad buttons "NEXT", "PRIOR", "ACK." and "SILENCE" are labeled "INTERIOR", "INSTANT", "☌", and "BYPASS" on the GEMC-BK1 Burglary keypad, respectively. These button equivalents are also expressed in the following table:

GEMC-FK1	GEMC-BK1
NEXT	INTERIOR
PRIOR	INSTANT
ACK.	☌
SILENCE	BYPASS

Warning: The use of non-NAPCO wireless devices with this control panel has not been evaluated by UL and voids the UL listing. In addition, the performance of these devices can not be guaranteed as compatible with NAPCO control panels.



NAPCO Security Group, Inc.,
 333 Bayview Avenue, Amityville, New York 11701
 For Sales and Repairs, call toll free: (800) 645-9445
 For direct line to Technical Service, call toll free: (800) 645-9440
 Internet: <http://www.napcosecurity.com>

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Napco Limited Warranty	

Refer to accompanying Gemini C-Series Control Panel Installation Instructions (WI1653) for installation information.



REMOTE DOWNLOADING RULES FOR FIRE-ONLY SYSTEMS OR BURGLARY / FIRE COMBINATION SYSTEMS

REMOTE DOWNLOADING RULES FOR FIRE-ONLY SYSTEMS OR BURGLARY/FIRE COMBINATION SYSTEMS

Gemini C-Series PCD-Windows Quickloader Dealer Support

NFPA 72 and UL 864 prohibit remote downloading to a Fire Alarm Control Panel unless a qualified technician is physically on site. PCD-Windows Quickloader download software version 6.0 was created to implement these remote downloading rules in a manner that satisfies both the regulations imposed by the jurisdictional authorities and the flexibility demanded by alarm Dealers. Therefore, the following *remote* downloading rules apply only to *Fire-only* systems or *Burglary/Fire Combination* systems, NOT to Burglary-only systems. **Note:** Local (site attended) downloading and local uploading are permitted without restrictions.

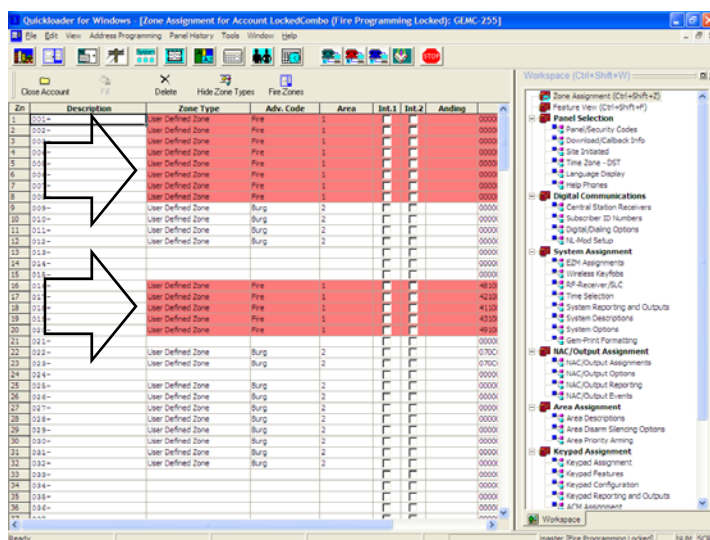
Locked/Unlocked Quickloader Account

In PCD-Windows Quickloader, there is a basic distinction between the programming within a Quickloader **account** and the programming within its associated **control panel**. PCD-Windows Quickloader version 6.0 introduces a new concept that applies to all Commercial Fire-related Quickloader accounts: A "Locked" or "Unlocked" account.

When a Quickloader account is "Unlocked", all Fire-related programming fields within the account are NOT protected from changes (unprotected fields are clear or "non-red colored").

When a Quickloader account is "Locked", there are two implications: (1) A Locked Quickloader account serves to indicate that both the Quickloader account, and its associated control panel programming, are identical. (2) All Fire-related programming fields within the account are protected from changes. To emphasize this protection (and to prevent inadvertent changes to Fire-related programming), all Quickloader fields that are "Locked" are displayed with a conspicuous *red-colored* background. Burglary-related changes in Quickloader are allowed, and CAN be downloaded to the panel remotely.

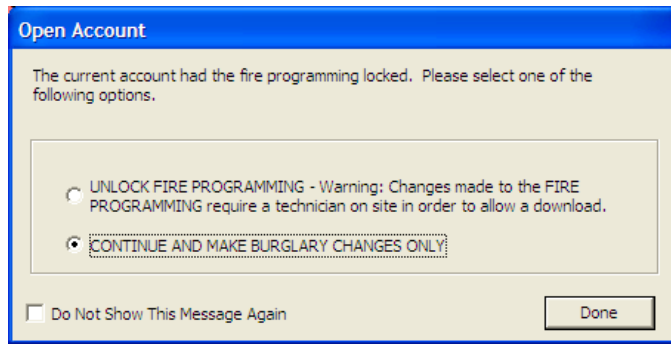
The following image is an example of a Locked Quickloader screen, with its Fire-related programming fields displayed with a red-colored background (arrows):



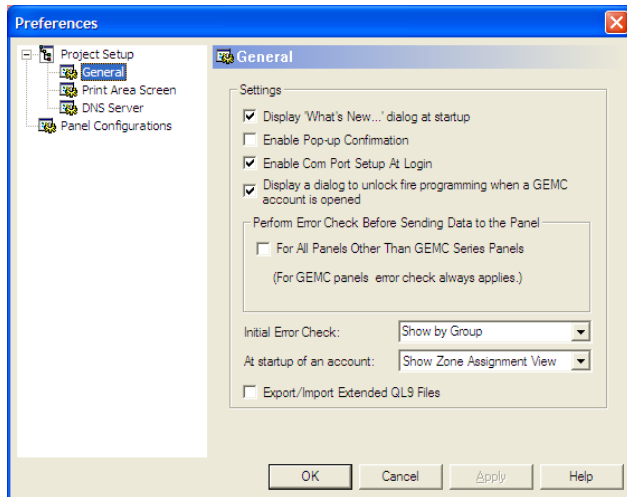
In addition, a Locked account also serves to assist dealers in avoiding unnecessary visits to the installation site, should they only need to make Burglary-related programming changes (they can perform these remotely).

As a helpful reminder, when a Locked account is opened in Quickloader, the following dialog appears:

REMOTE DOWNLOADING RULES (CONT'D)



If you do not wish to see this "Open Account" dialog in the future, you can either check **Do Not Show This Message Again** located at the bottom of this dialog, or you can click **File, Preferences** when in the Quickloader main screen to open the **Preferences** dialog (uncheck **Display a dialog to unlock fire programming when a GEMC account is opened**).



How to "Lock" / How to "Unlock"

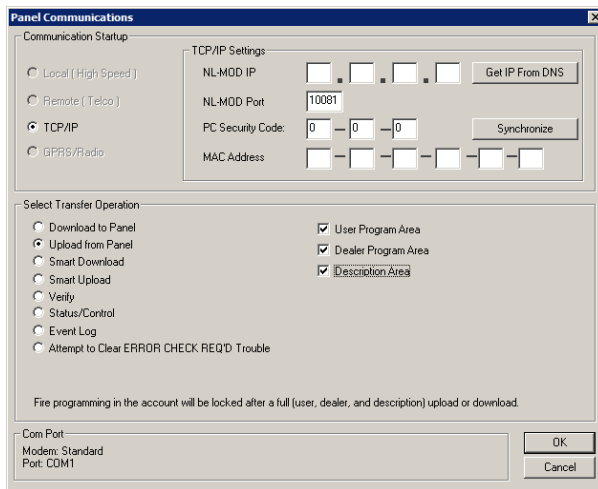
To unlock a "Locked" account, click **Tools, Unlock Fire Programming**, and the current Quickloader account will Unlock, and all Fire-related fields will display as "clear" (non-red) to allow changes.

To lock an "Unlocked" account, you must simply perform an operation that will result in equivalence of the Quickloader account and the panel programming:

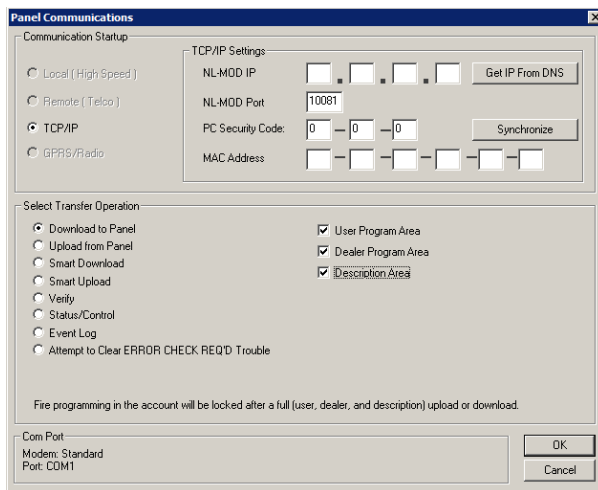
- Perform a full upload (or Smart Upload) from the panel into the account. This will ensure both the account and the panel programming are the same, thus the account is set to "Locked".
- Full download (or Smart Download) to the account. With the panel programming and the account programming identical, the account is set to "Locked".

A *full upload* operation means the **User Program Area**, **Dealer Program Area** and **Description Area** selections are all checked, as shown in the following image:

REMOTE DOWNLOADING RULES (CONT'D)



A *full download* operation means the **User Program Area**, **Dealer Program Area** and **Description Area** selections are all checked, as shown in the following image:



With a *Smart Upload* operation, before the upload operation is performed, Quickloader compares the *account programming* to the *existing control panel programming*. Only if they differ will the upload operation proceed.

With a *Smart Download* operation, Quickloader will first compare the *original account programming* to the *existing control panel programming*. If they match, the new changes are downloaded to the panel; if they differ, selected panel programming areas are first uploaded into Quickloader, then Quickloader downloads the new changes to the panel. If the Quickloader account is Locked, the same comparison operation is performed (compares the *original account programming* to the *existing control panel programming*). If they match, the new Burglary changes are downloaded to the panel; if they differ, the operation aborts.

Locked Account Mismatch

When Quickloader indicates the account is Locked, most of the time you may assume the account and the panel programming are identical; although every effort is made to ensure the reliability of this system, some situations may arise that will cause a mismatch.

For example, someone at the installation site can change the panel programming via "Direct Address Program

REMOTE DOWNLOADING RULES (CONT'D)

Mode", resulting in a mismatch.

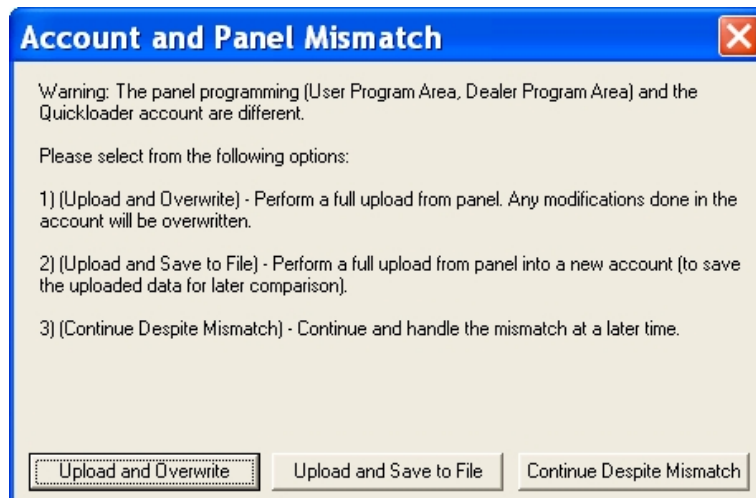
Direct Address Program Mode is an extension of the Dealer Program Mode wherein programming data is directly entered at the keypad by address location. To enter the Direct Address Program Mode, first unlock the GEMC-FK1 Fire keypad using a Dealer Keypad Program Code or Master Security Code, then press **MENU**, then scroll through the Function menu with the **NEXT** button; when "ENABLE PROGRAMMING" appears in the keypad display, press **ENTER**. Once "ENABLE PROGRAMMING" is selected and enabled, you may enter the Direct Address Program Mode. See the section **EASY MENU-DRIVEN PROGRAM MODE-- FIRE KEYPAD** further in this manual for complete information.

A mismatch may also occur if one intentionally bypasses the system by uploading the panel program to a temporary Quickloader account, then downloads changes back to the panel. The result is a panel mismatch with the original associated Quickloader account.

To avoid mismatches, Quickloader will always attempt to verify the equivalence of the account and panel programming for all *remote* download-related operations. For *local* download operations, Quickloader does not verify the equivalence of the account and panel programming because the dealer is, by definition, physically located on site, and therefore restrictions to all *local* download-related operations are both unnecessary and undesired.

Mismatch while Establishing a Telco Connection

Using a Telco connection, if one tries to remotely download to the panel from a Locked account, (assuming no one is on site) upon establishing a Telco connection, Quickloader will immediately attempt to check if the account and panel program are identical, even before a download operation is requested. If they are found NOT to be identical, the following **Account and Panel Mismatch** dialog will appear:



The **Account and Panel Mismatch** dialog allows three options:

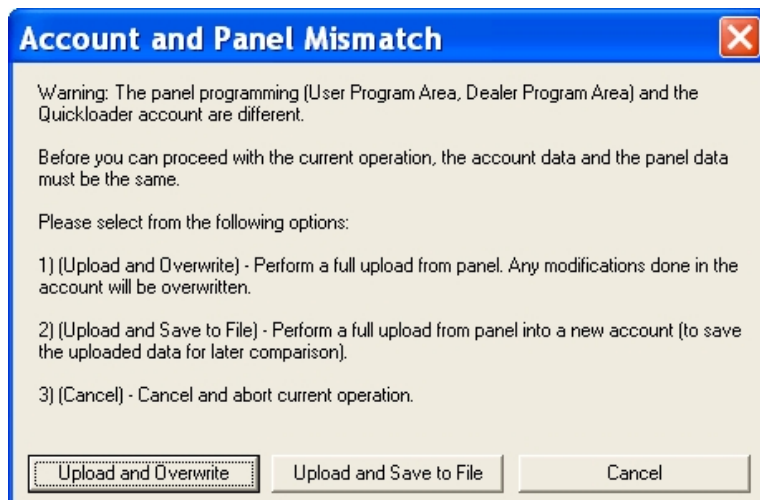
- **Upload and Overwrite:** Perform a full upload to overwrite the existing Quickloader account. All programming in the existing Quickloader account will be lost; the panel program and the Quickloader account will match, resulting in a Locked account.
- **Upload and Save to File:** Perform a full upload to a newly created Quickloader account. All programming in the existing Quickloader account will be left un-modified; the panel program will be uploaded to a new Quickloader account (the system will prompt for a new account name). Quickloader allows a comparison between the original and new Quickloader accounts, allowing the differences to be viewed.
- **Continue Despite Mismatch:** Click this button to ignore and close the **Account and Panel Mismatch** dialog despite the mismatch, and manage the mismatch later. After this dialog closes, you can then attempt other operations in place of downloading (such as uploading the Fire log or the panel status, etc.). Later, if you still wish to perform a download operation, Quickloader will again run another comparison and if there are differences,

REMOTE DOWNLOADING RULES (CONT'D)

Quickloader will again warn of the mismatch with the dialog shown below.

Download Initiated Mismatch

The following dialog will appear when performing a download for both Telco and TCP/IP (Net.Link NL-MOD) connections and a mismatch is detected; this dialog is very similar to the dialog shown above (the **Continue Despite Mismatch** button is replaced with a **Cancel** button, allowing the download operation to be exited without performing any action):



In summary, for every download operation, Quickloader will attempt to check if the account and panel program are identical. If a mismatch is found, Quickloader will warn of the mismatch with the dialog shown above.

Error-Check Overview

UL 864 requires that before a Fire Alarm control panel is placed into operation, the control panel programming must be validated to ensure critical Fire-related programming parameters are set properly. The Gemini C-Series control panels rely on the Quickloader Error Check utility to perform this required error check. Therefore, for all remote or local download attempts, Quickloader will first error check the Quickloader account before the download process is performed. **If errors are found, the following dialog appears:**



The above dialog presents 3 choices:

1. Click **Yes** to open the **Error Check List** dialog, listing the current errors in the Account;

REMOTE DOWNLOADING RULES (CONT'D)

- Click **No** to continue with the download operation; be aware a qualified technician **MUST** be on site to unlock a Fire keypad and enable the "ENABLE PROGRAMMING" selection in the keypad Function menu (ensuring the requirement that all remote Fire-related downloads be "attended");
- Click **Cancel** to abort the download operation.

"Error Check Required" Keypad Trouble

Generally, the "ERROR CHECK REQ'D" keypad trouble may appear in two ways. If errors are found in the Quickloader account, and the account program (with errors) is downloaded to the panel, the keypad will warn of the errors by displaying "ERROR CHECK REQ'D" in the keypad display. Another way the "ERROR CHECK REQ'D" keypad trouble will appear is when the keypad Function Menu selection "ENABLE PROGRAMMING" is selected. As described above, "ENABLE PROGRAMMING" must be enabled to allow access to the Direct Address Program Mode and/or the Easy Menu-Driven Program Mode in order to program the control panel using the keypad.

The only way to clear this "ERROR CHECK REQ'D" keypad trouble is by using Quickloader. There are several ways to do this in Quickloader.

One way to remove this "ERROR CHECK REQ'D" keypad trouble is by immediately correcting all errors in the Quickloader account, then performing a full download (or Smart Download) to the panel without errors. When the download process completes, the "ERROR CHECK REQ'D" keypad trouble will be cleared.

Another way to remove this "ERROR CHECK REQ'D" keypad trouble is to upload the panel programming into the Quickloader account, select the **Attempt to Clear ERROR CHECK REQ'D Trouble** radio button (in the **Panel Communications** dialog shown below) and click **OK**. The Quickloader error check will automatically run, and if errors are found, the operation will abort; if no errors are found, Quickloader will then attempt to check if the account and panel program are identical (if a mismatch is found, the operation will be aborted).

Panel Communications (Fire Programming Locked)

Communication Startup

☐ Local (High Speed)
☐ Remote (Telco)
☒ TCP/IP
☐ GPRS/Radio

TCP/IP Settings

NL-MOD IP: 172 . 16 . 201 . 70 Get IP From DNS
 NL-MOD Port: 10081 ☒ Enable Encryption
 PC Security Code: 1 - 2 - 3 Synchronize
 MAC Address: 00 - 00 - 00 - 00 - 00 - 00

Select Transfer Operation

☐ Download to Panel
☐ Upload from Panel
☐ Smart Download
☐ Smart Upload
☐ Verify
☐ Status/Control
☐ Event Log
☒ Attempt to Clear ERROR CHECK REQ'D Trouble

Remotely clears the ERROR CHECK REQ'D trouble at the keypad if there are no errors found at Error Check.

Requires the account to be NOT MODIFIED and the original account data exactly matches the installed panel data.

If modifications or differences are found the operation will be aborted.

Fire programming in the account will be locked after a full (user, dealer, and description) upload or download.

Com Port:
 Modem: Napco Quickmodem - StarComm 2400 Data (model 2400E-030)
 Port: COM1 221

OK Cancel

ENABLE PROGRAMMING Keypad Function Menu Selection

The "ERROR CHECK REQ'D" warning will also appear if "ENABLE PROGRAMMING" (located in the keypad Function menu) is selected. The selection "ENABLE PROGRAMMING" is primarily designed to allow access to keypad Direct Address Programming (and/or the Easy Menu-Driven Program Mode), and is also generally designed to allow for "non-local" downloading. Since these keypad programming modes allow changes to be made to the panel program outside of Quickloader, the "ERROR CHECK REQ'D" warning automatically appears at the keypad to warn of a possible panel/Quickloader mismatch. To select "ENABLE PROGRAMMING" at any unlocked GEMC-FK1 Fire keypad, simply press **MENU** to enter and press **NEXT** to scroll through the menu selections until "ENABLE PROGRAMMING" appears.

REMOTE DOWNLOADING RULES (CONT'D)

See the "FUNCTION MENU" section further in this manual for more details regarding the Function menu.

30-Minute "Download Window"

When the GEMC-FK1 Fire keypad is unlocked, a special 30-minute "download window" countdown starts. For a *remote* download to be permitted as if it was a *local* download (i.e. unrestricted programming changes allowed), the fol-

Quick Reference Table

	Local Connection	Remote (Telco and TCP/IP) with no one on site to unlock the keypad and "Enable Programming"	Remote (Telco and TCP/IP) with someone on site to unlock the keypad and "Enable Programming"
Full Download	<ul style="list-style-type: none"> Error check will be performed before the operation; if error(s) are found and user decides to continue, the "ERROR CHECK REQ'D" will appear on keypad. if error(s) are not found, the "ERROR CHECK REQ'D" will clear. Unrestricted Burg or Fire changes permitted Account will be Locked after operation completes 	<ul style="list-style-type: none"> Error check will be performed before the operation; if error(s) are found, the download attempt will terminate. if error(s) are not found, the "ERROR CHECK REQ'D" will clear. Burg changes allowed Fire changes disallowed Will check to ensure panel and Quickloader match Account will be Locked after operation completes 	<ul style="list-style-type: none"> Error check will be performed before the operation; if error(s) are found and user decides to continue, the "ERROR CHECK REQ'D" will appear on keypad. if error(s) are not found, the "ERROR CHECK REQ'D" will clear. Burg changes allowed Fire changes allowed Account will be Locked after operation completes
Partial Download	<ul style="list-style-type: none"> Unrestricted Burg or Fire changes permitted Error check will be performed before the operation; if errors are found and user decides to continue, the "ERROR CHECK REQ'D" will appear on keypad. 	<ul style="list-style-type: none"> Burg changes allowed Fire changes disallowed Will check to ensure panel and Quickloader match Error check will be performed before the operation; if errors are found, the download attempt will terminate. 	<ul style="list-style-type: none"> Unrestricted Burg or Fire changes permitted Error check will be performed before the operation; if errors are found and user decides to continue, the "ERROR CHECK REQ'D" will appear on keypad.
Full Upload	<ul style="list-style-type: none"> Unrestricted Burg or Fire changes permitted Account will be Locked after operation completes 	<ul style="list-style-type: none"> No restrictions to upload Account will be Locked after operation completes 	<ul style="list-style-type: none"> No restrictions to upload Account will be Locked after operation completes
Partial Upload	<ul style="list-style-type: none"> Unrestricted Burg or Fire changes permitted 	<ul style="list-style-type: none"> No restrictions to upload 	<ul style="list-style-type: none"> No restrictions to upload
Smart Download	<ul style="list-style-type: none"> Error check will be performed before the operation; if error(s) are found and user decides to continue, the "ERROR CHECK REQ'D" will appear on keypad. if error(s) are not found, the "ERROR CHECK REQ'D" will clear. Unrestricted Burg or Fire changes permitted Account will be Locked after operation completes 	<ul style="list-style-type: none"> Error check will be performed before the operation; if error(s) are found, the download attempt will terminate. if error(s) are not found, the "ERROR CHECK REQ'D" will clear. Burg changes allowed Fire changes disallowed Will check to ensure panel and Quickloader match Account will be Locked after operation completes 	<ul style="list-style-type: none"> Error check will be performed before the operation; if error(s) are found and user decides to continue, the "ERROR CHECK REQ'D" will appear on keypad. if error(s) are not found, the "ERROR CHECK REQ'D" will clear. Burg changes allowed Fire changes allowed Account will be Locked after operation completes
Smart Upload	<ul style="list-style-type: none"> Unrestricted Burg or Fire changes permitted Account will be Locked after operation completes 	<ul style="list-style-type: none"> No restrictions to upload Account will be Locked after operation completes 	<ul style="list-style-type: none"> No restrictions to upload Account will be Locked after operation completes
Verify	<ul style="list-style-type: none"> No restrictions 	<ul style="list-style-type: none"> No restrictions 	<ul style="list-style-type: none"> No restrictions
Event Log	<ul style="list-style-type: none"> No restrictions 	<ul style="list-style-type: none"> No restrictions 	<ul style="list-style-type: none"> No restrictions
Attempt to Clear Error Check Req'd Trouble	<ul style="list-style-type: none"> Error check must find no errors, the Quickloader account must not be modified and the original account programming must match the panel programming. If errors are found, the operation will be aborted; if mismatch is found, the Account and Panel Mismatch dialog will appear. 	<ul style="list-style-type: none"> Error check must find no errors, the Quickloader account must not be modified and the original account programming must match the panel programming. If errors are found, the operation will be aborted; if mismatch is found, the Account and Panel Mismatch dialog will appear. 	<ul style="list-style-type: none"> Error check must find no errors, the Quickloader account must not be modified and the original account programming must match the panel programming. If errors are found, the operation will be aborted; if mismatch is found, the Account and Panel Mismatch dialog will appear.
(Telco) Callback Establish Connection	<ul style="list-style-type: none"> Not Applicable 	<ul style="list-style-type: none"> Will check to ensure panel and Quickloader match, if a mismatch, the Account and Panel Mismatch dialog will appear. 	<ul style="list-style-type: none"> No restrictions
Keypad Establish Connection	<ul style="list-style-type: none"> Not Applicable 	<ul style="list-style-type: none"> Will check to ensure panel and Quickloader match, if a mismatch, the Account and Panel Mismatch dialog will appear. 	<ul style="list-style-type: none"> No restrictions
One Step Download	<ul style="list-style-type: none"> Not Applicable 	<ul style="list-style-type: none"> Error check will be performed before the operation; if error(s) are found, the download attempt will terminate. if error(s) are not found, the "ERROR CHECK REQ'D" will clear. Burg changes allowed Fire changes disallowed Will check to ensure panel and Quickloader match, operation will abort if mismatch occurs. Account will be Locked after operation completes 	<ul style="list-style-type: none"> Burg changes allowed Fire changes allowed Account will be Locked after operation completes

REMOTE DOWNLOADING RULES (CONT'D)

lowing must be in effect:

- the 30-minute "download window" must be open (in progress)
- a qualified technician must be on site to enable the "ENABLE PROGRAMMING" selection in the keypad Function menu (ensuring the requirement that all remote Fire-related downloads be "attended")

Note: The 30-minute download window countdown operates independently of the "ENABLE PROGRAMMING" status (enabled or disabled). Furthermore, each time a Fire keypad is unlocked, the 30-minute download window countdown restarts at 30 minutes.

As detailed in the section **Locked Account Mismatch** above, in order to enter the Function Menu to select "ENABLE PROGRAMMING" at the keypad, one must first unlock the GEMC-FK1 Fire keypad using a Dealer Keypad Program Code or Master Security Code. Be aware that after approximately 5 minutes of inactivity at the keypad, the keypad will automatically re-lock. In addition, the 5-minute keypad lock countdown and the 30-minute download window countdown are timed independently. Therefore, it is possible to have a locked keypad with an active or expired 30-minute download window.

PC Preset Support

PC Preset follows the same rules regarding uploading or downloading; however, the following practical limitations apply:

1. PC Preset can be configured to batch upload logs from any Gemini C-Series panel since connection and uploading are always allowed, provided the proper Master Security Code is entered into PC Preset;
2. PC Preset cannot batch download an account to a panel unless the Fire-related programming has been Locked and the Quickloader account used to previously program the panel only has Burglary-related programming differences;
3. PC Preset can be used to download a Quickloader account to a panel when a technician is on site to initiate the operation at a keypad located at the target control panel site. In order to Site Initiate a download from PC PRESET, use the **ACTIVATE DOWNLOAD** feature from the keypad Function Menu. All panel programming will be overwritten.

PCD Manager

Not supported

BASIC OPERATION

This section provides a brief overview of system operation. For detailed operation, refer to the User's Guide furnished with the keypad and to the Keypad Programming Modes located at the end of this manual.

DEFAULT PROGRAM

The Gemini C-Series control panels will function as a local Fire and/or Burglary alarm control panel right out of the box! The default program is entered at the factory; it is the installer's responsibility to add, change and/or delete features in accordance with these instructions to customize the system to the user's requirements and to conform to local codes. See page XX for a complete description of the factory default program.

CENTRAL STATION REPORTING

The following additional programming is required for central station reporting.

- Report on Alarm
- Subscriber ID (Account) Numbers, Groups 1 & 2*
- Receiver Format*
- Data Format*
- Telephone Number*

*Obtained from central station.

Note: Remember, for optimum security, the following code must also be reprogrammed:

- User 1 Code (see *User Keypad Programming*, below). For other programming, see the Gemini C-Series control panel programming instructions, WI1673.

KEYPAD PROGRAMMING (GEMC-FK1 or GEMC-BK1 Burg-Only Systems)

PRELIMINARY INFORMATION

The User Program Mode is covered in detail in the operating instructions for the keypad in use.

Keypad programming is an option designed primarily to allow small systems to be programmed and tested by an installer at the site without requiring the PCD-Windows Quickloader download program and associated hardware. Any Commercial Fire installation requires the subsequent use of the PCD-Windows Quickloader to ensure the minimum valid programming options have been selected and no invalid configuration selections have been erroneously entered.

It is recommended that once the system has been programmed, tested and placed in operation, that keypad programming is not to be used and any changes to the programming be made only using PCD-Windows Quickloader.

To enable GEMC-BK1 Burglary keypad programming in a Gemini C-Series "Burglary-only" system, perform the following procedures on the mother-

board after the system is installed:



1. Move jumper "J1" from NORM to CONFIG.
2. Move jumper "BURG SERVICE" from OFF to ON.
3. Place jumper "J4" on "BURG ONLY".
4. Move jumper "J1" from CONFIG to NORM.
5. Move jumper "BURG SERVICE" from ON to OFF.

Keypad programming can only be performed on the Keypad addressed as "01". On Fire and on Combination Fire / Burglary Systems, keypad 01 must be a GEMC-FK1 keypad.

KEYPAD PROGRAMMING RULES

1. Keypad programming mode can only be entered when the Function Menu item **ENABLE PROGRAMMING** is selected (System Trouble "Error Check Required" displayed). When keypad programming mode is entered, the control panel remain functioning as intended (Fire Alarm, Supervisory Alarms and troubles will be detected, annunciated and signaled) to protect life and property.
2. After keypad programming, the system trouble "Error Check Required" will remain until the account has been uploaded into a PCD-Windows Quickloader Gemini C-Series account, then subsequent "Full Program Download without Errors" completed to ensure the programming is valid and without errors.
3. System must be fully tested.

In addition:

- Only Keypad #1 may be used for programming (must be located in Area 1 for Fire systems).
- The Program Mode cannot be accessed while the communicator is transmitting except during the first three minutes after power-up.
- After entering codes or data, press the save  button. *Data will not be stored into memory unless this button is pressed.*
- If the keypad is in the Program Mode and no activity is detected for longer than 4 minutes, a steady tone will sound.
- Press the  button to silence the sounder and exit Program Mode.

NOTE: For ease of programming, it is recommended that a GEMC FK1 be used as Keypad #1. A new GEMC-FK1 is automatically configured as Keypad #1. See Keypad Configuration Mode.

GEMC-FK1 KEYPAD OPERATION

To Access control functions (such as **SILENCE**, **RESET**, **ACK**. buttons etc.), keypad must be "unlocked" by en-

BASIC OPERATION (CONT'D)

tering code then pressing **ENTER** (UNLOCK). Keypad will remain unlocked until **RESET** is pressed or after approximately 5 minutes of inactivity.

STANDBY

Keypad displays:

```
SYSTEM NORMAL
11/01/12  12:05 AM
```

This is the normal mode. The keypad LCD displays "SYSTEM NORMAL" above current date and time. Green **AC ON** light is lit.

ALARM

Keypad displays:

```
FIRE      Z123 001
XX/XX/XX  HH:MM AM
```

```
123-SMK NW STAIR
3RD FLOOR
```

LCD displays initial Fire alarm, "FIRE ZXXX" and the EVENT# on the first line with the date and time of the alarm on the second line, then scrolls to the description of the zone in alarm. The **FIRE** LED flashes and alarm sounders / indicators are active. **Note:** The ">" following the EVENT# indicates additional information; press **PRIOR** or **NEXT** to view.

SILENCE ALARM

"Unlock" keypad, press **ACK** and then press **SILENCE**. After sounder silences, the **SILENCED** icon turns on and **FIRE** LED changes from flashing to steady.

RESET ALARM

"Unlock" keypad (if not already unlocked), then press **RESET**. LCD prompts "ATTEMPTING RESET ... Please WAIT". If all Fire devices/zones reset and troubles restore, the "SYSTEM NORMAL" display will return.

ALARM TEST

LCD must display "SYSTEM NORMAL" before initiating test. In addition, call central station before initiating test.

To initiate system test (s):

"Unlock" keypad, press **MENU** until "DO FIRE DRILL" displays. Press **YES** or **ENTER**. Follow WI instructions. **Note:** A Fire Drill Zone must be programmed in the **NAC/Output Assignment** screen, **NAC/Output Options** tab.

TROUBLE

LCD displays initial trouble "SYSTRbl... XXX" (if highest priority condition) and **TROUBLE** icon flashes.

Note: The ">" following the EVENT# indicates additional information; press **PRIOR** or **NEXT** to view.

SILENCE TROUBLE

"Unlock" keypad, then press **ACK** to silence. Trouble sounder silences and **TROUBLE** icon changes from flashing to steady.

RESET TROUBLE

After all Fire devices reset and all troubles restore, the "SYSTEM NORMAL" display will return and the **TROUBLE** icon will extinguish.

OFF-NORMAL POSITION OF CIRCUITS

To Disable a Zone / Output Circuit:

"Unlock" keypad, then press **MENU** until "ZONE DIRECTORY / "OUTPUT DIRECTORY" option displays. Press **YES** or **ENTER**. Scroll to desired zone/output using **NEXT** and/or **PRIOR** buttons.

Press **SILENCE (DISABLE)** button (the **DISABLED** icon turns on). Press **RESET** to exit menu (the **TROUBLE** icon turns on).

RESTORE ZONE / OUTPUT

LCD **TROUBLE** icon and **DISABLED** icon are on. "Unlock" keypad, then press **MENU** until "ZONE DISABLE / OUTPUT DISABLE" option displays. Press **YES** or **ENTER**. Press **NEXT** and/or **PRIOR** until desired zone/output displays.

Press **SILENCE (DISABLE)**. The **DISABLE** icon turns off. Press **RESET** to exit menu. If all other conditions are restored, the "SYSTEM NORMAL" display will return.

FUNCTIONS OF DISPLAYS

- **LCD** - Displays initial highest priority condition, system status, Menu options and details.
- **SUPV Icon** - Flashes in supervisory alarm; steady when silenced.
- **TROUBLE Icon** - Flashes when Fire system is in trouble; steady when silenced / acknowledged.
- **DISABLED Icon** - On steady when zones or circuits are disabled; steady when silenced or acknowledged.
- **SILENCED Icon** - On steady when Fire alarm is silenced.
- **FIRE LED** - Flashes when in Fire alarm; steady when silenced.
- **AC ON LED** - On when AC power is present; off when AC power is absent.

FUNCTIONS OF BUTTONS



BASIC OPERATION (CONT'D)

- **Numbers 0-9** - Used to enter User Codes to "unlock" the system; view status, access functions or select zone/output.
- **MENU** - Press to display / scroll through menu options (when system is unlocked).
- **SILENCE (DISABLE)** - Silences alarm sounders (when system is unlocked). In the ZONE DIRECTORY, ZONE DISABLE, OUTPUT DIRECTORY or OUTPUT BYPASSED MENU displays; this button toggles the displaying zone/output between disabled and un-disabled.
- **RESET** - Acknowledges condition (s) have been viewed (flashing icons changed to steady), thus allowing new conditions to display clearly with flashing icons. Initiates reset sequence, allowing alarms, supervisory conditions and troubles to re-store.
- **ENTER (UNLOCK)** - Press to enter User Code or activate displayed menu option.
- **NEXT** - Activates the displayed menu option (when system is unlocked) or prompts the next zone/output to display.
- **PRIOR** - Prompts for the previous zone/output to display (when system is unlocked).
- **ACK.** - Acknowledges condition (s) have been viewed (flashing icons changed to steady), thus allowing new conditions to display clearly with flashing icons.

ADVANCED MENU FUNCTIONS

- **LOCK KEYPAD** - Immediately locks keypad against affecting any system operation.
- **DISPLAY FIRE LOG** - For Fire Chief / serviceman use. See OI341.

TESTING THE SYSTEM

After installation is completed, always test the system by first calling the central station to inform them of the test. Then initiate an alarm, preferably on a zone that activates a steady output, then silence and reset the zone after initiating an alarm. Verify proper signaling, then call the central station to confirm their receipt of a valid transmission.

FIRE TEST MODE

1. Unlock the keypad using the Dealer Code or Master Code. "Keypad Unlocked" flashes momentarily on the keypad LCD.
2. Press **NEXT** and **PRIOR** to scroll through options until "Do One Man Test" displays.
3. Press **ENTER**. Note that the system is in "Test Mode" and will not function "normally". A report is sent to the central station.
4. Activate each initiating device one at a time (for example, blow smoke into the smoke detectors, activate each pull-station, etc.). When detected by the system, all output circuits programmed to activate when the associated zone is in alarm will sound a single momentary chirp.
5. Restore the device (blow clean air through the smoke detectors, restore each pull station, etc.). When the system detects the zone restored, all associated zones will sound 2 short chirps.
6. When all Fire devices have been tested and the mapped outputs confirmed, end the Test Mode by pressing **RESET** on the keypad. **Note:** If in Test Mode for more than 5 minutes, you must unlock the keypad before exiting.

SECURITY, PROGRAM & USER CODES

Generally, a Fire system will remain in operation undisturbed unless an authorized person needs to:

- **Service or make programming changes** to the system, such as a dealer or service technician;
- **View** the system attributes, such as a fireman responding to an alarm at the premises;
- **Initiate** fire drills, such as a principal or teacher at a school;
- **Change the status of the system**, such as a fireman needing to silence a Fire alarm.

Since some people may require the use of more abilities within a Fire alarm system, and others may need to be restricted in their abilities to prevent them from causing harm to the system, a series of codes is used to control these abilities. These codes exist in the control panel memory and in the PCD-Windows Quickloader download software Account associated with that control panel. All of these codes can be entered in Quickloader and sent to the panel (with the exception of the Master Security Code).

No Code

Without a code, a person can not make changes to the system, but can only view existing Fire alarms, supervisory alarms or troubles.

Master Security Code

This code is added to the control panel memory at the factory and is not changeable. This code is printed on a label placed on the GEMC-XXXMB control panel motherboard. Entering this code at the GEMC-FK1 Fire keypad will unlock the keypad and provide access to ALL functions in the system. This code **MUST** be entered in a Quickloader account and must match the code at the control panel. **Note:** All keypad programming must be performed at the keypad addressed as Keypad # 1.

Dealer Keypad Program Code

This code is left blank in the control panel memory at the factory and may be added by the dealer (in possession of the *Master Security Code*). The *Dealer Keypad Program Code* allows the same access to programming functions as the *Master Security Code*. **Note:** To comply with SIA CP-01, the number of digits in the *Dealer Keypad Program Code* determines the number of digits (no more or less) that **MUST** be used for all *Burg User Codes*.

Fire User Codes & Burg User Codes

In total, up to 195 Fire User and Burg User Codes may be entered into the system. A short description of each follows:

Fire User Code: This code is typically used by a person in authority to control the system after an alarm. For example, after arriving at the premises, a fireman will likely need to access the system, investigate the number of alarms that occurred, determine the part of the system that was affected, view events in the Fire log, etc. An-

other example of a person in possession of a Fire User Code is the principal of a school who is required to initiate fire drills (the keypad has a "Do Fire Drill" selection). The Fire User Code allows the **ACK.**, **SILENCE** and **RESET** keypad buttons to operate, and allows other various "Function Menu" options to function (see "Function Menu" further in this manual). All Fire User Codes must be at least 4 digits in length.

Burg User Code: For Fire and Burglary combination systems, this code will only allow access to the Burglary functions of the system. This code is typically used by a person with the responsibility of securing the premises, arming and disarming the Burglary alarm system, silencing Burglary alarms if they occur, etc. This code is special in that each code can be assigned four different "Authority Levels" (0, 1, 2 or 3) and five "Attributes" (**Initially Off**, **BV**, **User Program**, **BE** and **Overview**) and can be assigned to Area(s) 2 - 8 (with Area 1 being reserved for Fire only).

The Gemini C-Series control panels are pre-programmed at the factory as follows:

- **For Burglary-Only systems:** The panel default Burg User Code is programmed as User #1, with digits 123, active in Area 2 only.
- **For Fire and Burglary combination systems:** The panel default Fire User Code is programmed as User #1, with digits "123", active in Area 1 only. The Burg User Code is programmed as User #2, with digits "456", active in Area 2 only.
- **For Commercial Fire-Only systems:** The panel default Fire User Code is programmed as User #1, with digits 1234 active in Area 1 only. All Fire User Codes must be at least 4 digits in length.

Download Security Code

This code is **not** a keypad code, but is only used to permit local or remote connections to be established between PCD-Windows Quickloader download software and the control panel. Used during the connection process, if the panel code does not match the code in Quickloader, a data connection will be denied. Some dealers with multiple PCD-Windows Quickloader accounts use the same Download Security Code for all accounts. When attempting to establish a connection, if this code is forgotten, the Master Security Code of the particular control panel can be used in its place.

Ambush Code

The Ambush Code is special user code entered by the user 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. (Check the glossary for programming required to enable this feature). The user can program the panel with individual Ambush Codes by programming "Enable Ambush in User Assign Code Type".



CONTROL PANEL PROGRAMMING OPTIONS

OVERVIEW

The Gemini C-Series control panels may be programmed by various means, each of which will be covered in detail in the sections that follow. There are three basic methods:

- A: DOWNLOADING FROM A COMPUTER
- B: EASY MENU-DRIVEN (DEALER PROGRAM) MODE (USING THE KEYPAD)
- C: DIRECT ADDRESS (DEALER PROGRAM) MODE (USING THE KEYPAD)

Keypad displays shown are for a GEMC-FK1 Fire keypad, the recommended keypad for programming. **Note:** PCD-Windows Quickloader download software MUST always be used to place the Gemini C-Series system into operation.

A: DOWNLOADING FROM A COMPUTER

This is the preferred method of programming. The panel may be downloaded from (or uploaded to) an IBM PC-compatible computer, either locally or remotely. Napco's PCD Windows Quickloader download software features context-sensitive help screens as well as an error-checking utility that prevents programming of incompatible or conflicting data, ensuring correct panel operation.

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

The control-panel program may be downloaded from a computer by any of the following methods.

• LOCAL DOWNLOADING FROM A COMPUTER

(**Note:** This procedure should be used after installation, after peripheral devices are connected).

For direct high-speed data transfer to the control panel from a desktop computer, connect the download jack (JP2) on the panel to the LOCAL jack (J3) on the Napco PCI2000/3000 computer interface using the supplied 6-conductor cable. (Refer to PCI2000/3000 Installation Instructions WI443 for wiring diagram and procedures).

Similarly, a high-speed local download may be made in the field using a notebook or laptop computer. Connect JP2 on the control panel to a Napco PCI-MINI computer interface using the 6-conductor cable supplied. (Refer to PCI-MINI Installation Instructions WI767).

• TCP/IP FROM A COMPUTER



The NAPCO NetLink™ NL-MOD-UL is a device that allows the reporting of alarms over a TCP/IP based (Intranet or Internet) network. See the GEMC-NL-MOD instructions WI1754.

• REMOTE DOWNLOADING FROM A COMPUTER

(Also see PCI2000/3000 Installation Instructions WI443).

• FUNCTION MODE WITH A COMPUTER

Start by establishing a Telco connection between the computer operator and the system. During this procedure, voice contact will be lost, therefore both the installer and the computer operator should be familiar with this operation. When a steady high-pitched tone is heard at the site phone, access the "ACTIVATE DOWNLOAD" Function (see Keypad Programming Modes),

then press the  button or the  button; the site phone will go dead. Hang up the phone and wait for a call from the central station confirming a successful download. **Note:** PCD-Windows MUST be used to place the Gemini C-Series system into operation.

• CALLBACK METHOD WITH A COMPUTER

An installed, unattended panel (in a Burglary only system) may be programmed or reprogrammed remotely using the Callback-Method Download feature of the PCD-Windows Quickloader software. Remote downloading requires a modem compatible with the PCI2000 / 3000. Upon answering the call from the computer, the control panel will verify the **Download Security Code** (see the **SECURITY, PROGRAM & USER CODES** section) and, if confirmed, will establish a connection. If a Callback Number is programmed into the panel, the panel will automatically disconnect and call the computer at this number before establishing a connection. **Note:** Keypad must be unlocked and the keypad Function Menu selection "ENABLE PROGRAMMING" must be enabled.


Note: PCD-Windows MUST be used to place the Gemini C-Series system into operation.

B: EASY MENU-DRIVEN PROGRAM MODE (USING THE KEYPAD)

Note: For ANY keypad programming, the SLC board MUST be enabled in PCD-Windows Quickloader by opening the **System Assignment** screen, **RF-Receiver/SLC** tab.

The **Easy Menu-Driven Program Mode** allows a custom default program to be created at the keypad, for new control panels. The Easy Menu is a menu-driven utility that prompts the installer to configure the system. A complete list of the menu items is detailed further in this manual. Detailed customization of specific programming addresses is accomplished in the Direct Address Program Mode (below).

C: DIRECT ADDRESS PROGRAM MODE (USING THE KEYPAD)

The Direct Address Program Mode is an extension of the Dealer Program Mode wherein data is directly entered at the keypad by address location. This mode is accessed from the Easy Menu Driven Program Mode by pressing the  button at any time. **Note:** PCD-Windows MUST be used to place the Gemini C-Series system into operation.

OVERVIEW -- KEYPAD PROGRAMMING MODES

Although the Gemini C-Series control panels MUST be programmed and error checked by PCD-Windows Quickloader download software before being placed in operation, the keypads alone offer the ability to program certain utility functions without the use of a computer. For Fire only and Fire/Burglary Combination systems, the GEMC-FK1 Fire keypad must be "unlocked" before these keypad modes can be accessed. In general, the sections listed below outline the pages that follow:

- **How to unlock the Fire keypad**

- **Function Menu (Fire Keypad)**

- **"Dealer Program Mode"**

Enter the Function Menu using a **Dealer Keypad Program Code**, and scroll to "CF DEALER PROG MODE". Allows all selections.

- **"User Program Mode"**

Enter the Function Menu using a *Fire User Code*,

and scroll to "Enable (Change User Code)" to allow Fire User Codes to be changed.

- **Function Menu (Burg Keypad)**

- **"Dealer Program Mode"**

Enter the Function Menu using a **Dealer Keypad Program Code**, and scroll to "Activate Program". Allows all selections.

- **"User Program Mode"**

Enter the Function Menu using a *Burg User Code*, and scroll to "Enable (Change User Code)" to allow Burg User Codes to be changed.

- **Keypad Configuration Mode**

GEMC-FK1 Fire Keypad, shuts down the Fire system.

- **Keypad Configuration Mode**

("Burg Service Mode") GEMC-BK1 Burglary Keypad.

UNLOCKING THE FIRE KEYPAD

SYSTEM NORMAL
11/01/14 12:05 AM

Only persons with authority may "unlock" the GEMC-FK1 Fire keypad, allowing them to view and affect changes to the Fire alarm system. One example may include a fireman responding to a Fire alarm at the premises, and needing to silence a bell. Another example may include a school principal or school teacher initiating a Fire drill. This authority is determined by the use of one of the following codes:

Note: Some systems substitute the use an optional "momentary-on" key switch mounted adjacent to the GEMC-FK1 Fire keypad in place of a code.

If the keypad is locked, any attempt to view or alter the system status will cause the keypad to momentarily display "KEYPAD LOCKED ENTER CODE", and then return to the previous display.

KEYPAD LOCKED
ENTER CODE

KEYPAD UNLOCKED

Unlocking the Keypad

Enter one of the following codes and press **ENTER** (see the section "**SECURITY, PROGRAM & USER CODES**" for a complete description of each code):

- **Master Security Code** - Entering this factory-programmed code at the GEMC-FK1 Fire keypad will unlock the keypad and provide access to ALL functions in the system.
- **Dealer Keypad Program Code** - This code allows the same access to programming functions as the *Master Security Code*. This code is left blank in the control panel memory at the factory and may be added by the dealer (in possession of the *Master Security Code*).
- **Fire User Code** - This code is pre-programmed at the factory as "123", and is typically used by a person in authority to control the system after an alarm. For example, after arriving at the premises, a fireman will need to access the system, investigate the number of alarms that occurred, determine the part of the system that was affected, view events in the Fire log, etc.

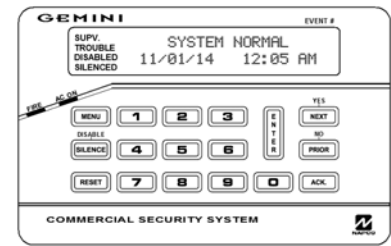
Note: Some systems may use a key switch mounted adjacent to the keypad in place of a code. After approximately 5 minutes of no activity at the keypad, the keypad will automatically re-lock. Subsequent system interaction will require the system to be unlocked again. Once the keypad is unlocked, you may enter the Function Menu, as described on the following pages.



FUNCTION MENU -- FIRE KEYPAD

The GEMC-FK1 Fire keypad Function Menu provides access to a variety of Fire system utility functions. Some functions listed below may or may not appear, depending on the type of Code used to enter the Function Menu (see "Security, Program & User Codes" on page 15). For the Burglary keypad Function Menu, see page 22.

1. **Unlock a Fire keypad** with either a *Master Security Code*, *Dealer Keypad Program Code* or a *Fire User Code* as detailed in **UNLOCKING THE FIRE KEYPAD** on page 18. Press **MENU**.
2. **Scroll forward or backward through the functions** using **NEXT** and **PRIOR**, respectively.
3. **To select and execute a function**, press **ENTER**.
 - To return to normal keypad operation, press **RESET**. **Note:** The keypad will automatically exit the *Function Menu* if no activity is detected for longer than 1 minute.



GEMC-FK1 Fire Keypad

DISPLAY ZONE
DIRECTORY Y/N

ZONE DIRECTORY: Displays the description of each fire zone in the system. Press **NEXT** and **PRIOR** to scroll through list of fire zones.. Allows zones to be disabled or enabled by pressing **SILENCE (DISABLE)** when viewing the selected zone.

DISPLAY ZONES
DISABLED Y/N

ZONE DISABLE: Displays disabled fire zones. Press **NEXT** and **PRIOR** to scroll through list of disabled zones. Pressing **SILENCE** while viewing selected zone will un-disable the displayed zone.

DISPLAY OUTPUT
DIRECTORY Y/N

OUTPUT DIRECTORY: Displays a listing of the motherboard outputs and up to 40 external output relays and NAC boards in the system. Press **NEXT** and **PRIOR** to scroll the zone directory. Allows outputs to be disabled or enabled by pressing the **SILENCE (DISABLE)** button when viewing the selected output.

DISABLE
OUTPUT Y/N

OUTPUT DISABLED: Displays disabled notification circuits. Press **NEXT** and **PRIOR** to scroll through list of disabled notification circuits. Pressing **SILENCE (DISABLE)** while viewing selected notification circuit will un-disable the displayed circuit.

LOCK
KEYPAD Y/N

LOCK KEYPAD: *Master Security Code or Dealer Keypad Program Code or Fire User Code* required to view this function) Immediately locks keypad. Must unlock with key or code to affect system operation.

DISPLAY FIRE LOG
Y/N

DISPLAY FIRE LOG: Displays all fire events in chronological order; use **NEXT** and **PRIOR** buttons to scroll through the log. Refer to page 17 for event descriptions.

DO FIRE DRILL
Y/N

DO FIRE DRILL: Activates a fire drill by forcing the programmed fire drill zone into alarm.

DO ONE MAN TEST
Y/N

DO ONE MAN TEST: (*Master Security Code or Dealer Keypad Program Code* required to view this function). Initiates One Man Test mode (refer to page 15).

TEST
COMMUNICATOR Y/N

TEST COMMUNICATOR: (*Master Security Code or Dealer Keypad Program Code* required to view this function). Initiates a test report to the central station.

FUNCTION MENU -- FIRE KEYPAD (CONT'D)

CHANGING USER CODES

Enable Change
(User Code) Y/N

ENTER CODE TO
CHANGE (ENTER)

ENTER NEW CODE

RE-ENTER NEW CODE

SYSTEM READY
11/01/12 12:09 AM

ENABLE (CHANGE USER CODE): Allows Fire User Codes to be changed (see the section "Security, Program & User Codes" for a full definition of "Fire User Code". In general, Fire User Codes can be used to arm and disarm the Fire system. Changing User Codes can be performed at any GEMC-FK1 Fire keypad. **Note:** The total number of Fire User Codes in a system is determined by the number of codes added within PCD-Windows Quickloader download software.

Change an existing Fire User Code:

1. As detailed at the beginning of this section, press **MENU** until this "ENABLE (CHANGE USER CODE)" selection appears, then press **NEXT/YES**.
2. The keypad display reads: "ENTER CODE TO CHANGE (ENTER)". Enter the "old" code you want to change and press **ENTER**.
3. The keypad display reads: "ENTER NEW CODE". Enter the new code and press **ENTER**.
4. The keypad display reads: "RE-ENTER NEW CODE". To ensure the new code entered in step 3 is correct, re-enter new code, then press **ENTER**.

Erase an existing Fire User Code:

Fire User Codes cannot be "erased" from the system using the keypad; instead, simply "change" the "old" code to a different code using the directions above ("Change an existing Fire User Code"). Using PCD-Windows Quickloader download software, Fire User Codes can be erased using the **User Assignment** screen, **User/System Codes** tab.

Add a new Fire User Code:

You cannot add new Fire User Codes using the GEMC-FK1 Fire keypad. Instead, use PCD-Windows Quickloader download software, **User Assignment** screen, **User/System Codes** tab.

CF DEALER
PROG MODE Y/N

CF DEALER PROGRAM MODE? (Master Security Code or Dealer Keypad Program Code required to view this function). Allows dealer to change system programming.

ENABLE
PROGRAMMING Y/N

ENABLE PROGRAMMING: (Master Security Code or Dealer Keypad Program Code required to view this function). This feature is used to allow keypad programming and downloading of new or altered programming that affects Fire system operation.

Execute Download
Y/N

EXECUTE DOWNLOAD: (Master Security Code or Dealer Keypad Program Code required to view this function). Allows site initiated download sequence to start.

Supplemental
Output Reset Y/N

SUPPLEMENTAL OUTPUT RESET: Turns off outputs programmed as "Supplemental".

DISPLAY RF
XMITTER STAT Y/N

DISPLAY RF XMITTER STAT Y/N? (Master Security Code or Dealer Keypad Program Code required to view this function). Allows dealer to change system programming.



FUNCTION MENU -- FIRE KEYPAD (CONT'D)

Reinitialize FSLC Devices	Y/N
------------------------------	-----

REINITIALIZE FSLC DEVICES This menu item is typically used when replacing a defective SLC device while keeping the existing Fire system in operation (thus allowing the Fire system to continue to protect life and property). This selection is intended to ensure valid communication and correct operation for each Fire SLC device in the system.

When initiated, power is removed from the GEMC-FW-SLC bus (the common pathway that connects all of the Fire SLC devices), then power to the GEMC-FW-SLC bus is restored. Each device's pre-existing configuration (stored within each device) is retained. To ensure each device's ability to respond to the Fire SLC circuit board, each Fire SLC device "type" is retrieved from each device by the GEMC-FW-SLC circuit board (this process takes about 20 seconds, depending on the number of devices). The retrieval of each SLC device "type" indicates each device's ability to respond to the Fire SLC circuit board; for each successful retrieval, the GEMC-FW-SLC instructs each device to use its pre-existing configuration.

Full FSLC Initialize	Y/N
-------------------------	-----

FULL FSLC INITIALIZATION

Use this selection when you wish to re-establish a "starting" condition for all Fire SLC devices in the system, **without** the need for the system to remain in operation.

To ensure all devices are operating correctly, this selection clears all memory from each Fire SLC device in the system, verifies communication with the Fire SLC circuit board, and restores each device's programming by sending data stored within the Fire SLC board memory back to each device. **Note:** This re-initialization process may take up to 1.25 hours to complete, depending on the number of SLC devices in the system. **Note:** When a Full FSLC Initialization is performed and the control panel is in "Disable Remote Reporting" mode, Remote Reporting will be enabled.

A full Fire SLC device initialization is also available in PCD-Windows Quickloader download software. In the PCD-Windows Quickloader toolbar, click **Panel History**, **Status History**, and click the "Fire SLC Init" button.

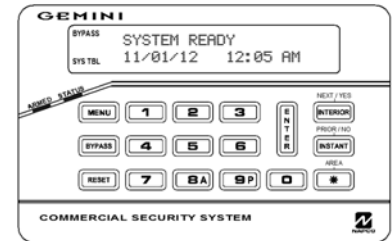
Disable Remote Reporting	Y/N
-----------------------------	-----

DISABLE REMOTE REPORTING? (*Master Security Code or Dealer Keypad Program Code required to view this function*). Simplifies Dealer servicing and downloading program changes by disabling all Fire and Burglary reporting. When disabled, the option "Enable Remote Reporting" will appear. **Note:** Exiting **Dealer Program Mode** will re-enable remote reporting.

FUNCTION MENU -- BURGLARY KEYPAD

The GEMC-BK1 Burglary keypad Function Menu provides access to a variety of Burglary utility functions. Some functions listed below may or may not appear, depending on the type of Code used to enter the Function Menu (see "**Security, Program & User Codes**" on page 15). For the Fire keypad Function Menu, see page 18.

1. **At a Burglary keypad**, enter either a *Master Security Code*, *Dealer Keypad Program Code* or a *Burg User Code*, then press **MENU**.
2. **Scroll forward or backward through the functions** using **NEXT** and **PRIOR**, respectively.
3. **To select and execute a function**, press **ENTER**.
 - To return to normal keypad operation, press **RESET**. **Note:** The keypad will automatically exit the *Function Menu* if no activity is detected for longer than 1 minute.



GEMC-BK1 Burglary Keypad

DISPLAY
ZN DIRECTORY Y/N

Display Zone Directory? Displays a listing of all zones in the Area. Press **NEXT** (**INTERIOR**) and **PRIOR** (**INSTANT**) to scroll zone directory.

ACTIVATE
BELL TEST Y/N

Activate Bell Test? Activates the alarm (while disarmed) for about 2 seconds and performs a battery test. If the alarm does not sound, call for service.

- If the battery is low, a "LOW BATTERY E02-000 SERVICE" will appear in the display indicating a low battery condition. Allow 24 hours for the battery to recharge. If the trouble continues, call for service.

DISPLAY
PHONE #'S Y/N

Display Phone Numbers? The panel can function as an auto dialer to any of four programmed telephone numbers (numbers must be programmed through PCD-Windows Quickloader software). Select Telephone #1-4 using **NEXT** and **PRIOR**, then press **ENTER**. Pick up the phone to initiate dialing of the displayed number (the phone will appear to be disconnected while dialing but will return to normal after a few seconds).

DISPLAY
SYS TRBL Y/N

Display System Troubles? Displays 1- or 2-digit error code along with a description of a problem detected in the system. (See SYSTEM TROUBLE ERROR CODES for a full description of these codes). Use **NEXT** (**INTERIOR**) and **PRIOR** (**INSTANT**) to scroll system troubles.

ACTIVATE
CHIME Y/N

Activate Chime? (Optional - Chime programmed? ☐YES ☐NO) The Chime Mode will sound a tone at the keypad when the programmed zone is faulted while disarmed. To deactivate the Chime Mode, re-enter the Function Mode and when "DEACTIVATE CHIME" is displayed, press **YES** (**INTERIOR**). **Note:** The Chime Mode is disabled while armed. Chime is disabled for *Protected* zones while armed, *Never Armed* zones (such as a driveway sensor) will continue to chime when system is armed.

RESET
SYSTEM TRBL Y/N

Reset System Trouble? (*Master Security Code or Dealer Keypad Program Code required to view this function*) System troubles display and sound at the keypad. Correcting the trouble will clear most indications, however the following error codes will require manual reset: E13; E19; E20 and E22 (see SYSTEM TROUBLE ERROR CODES for a description of error codes).

RESET
SENSOR MSG Y/N

Reset Sensor Watch Failure? (Sensor Watch programmed? ☐YES ☐NO). (*Master Security Code or Dealer Keypad Program Code required to view this function*) Your system may have been programmed for Sensor Watch, a feature that supervises the motion sensors in the system. If a Sensor Watch failure occurs, a System Trouble E22-NNN will result, where NNN represents the zone number of the sensor in question. To reset, enter the Function Menu, scroll to "RESET SENSOR MSG" and press **ENTER**. If you cannot correct the problem, call for service.

FUNCTION MENU -- BURGLARY KEYPAD (CONT'D)

ACTIVATE
DIALER TEST Y/N

Activate Telephone Test? (Telephone Test programmed? ☐ YES ☐ NO). (Master Security Code or Dealer Keypad Program Code required to view this function) Sends a communicator test to the Central Station. A communication failure will be indicated at the keypad by a system trouble "E03-FAIL TO COMM" display. Repeat the test to attempt to correct a communication failure, as any successful communication will clear this display.

DISPLAY
ALARM LOG Y/N

Display Alarm Log (Master Security Code or Dealer Keypad Program Code required to view this function) Displays most recent alarm events. Line 1 displays event and date; line 2 displays time, area and zone. To check previous alarm events, scroll back using the **PRIOR** button.

DISPLAY
TOTAL LOG Y/N

Display Total Log (Master Security Code or Dealer Keypad Program Code required to view this function) Displays most recent events of all types. Line 1 displays event and date; line 2 displays time and, if applicable, area and zone or user. To check previous events, scroll back using the **PRIOR** button.

DISPLAY
OP/CL LOG Y/N

Display OP/CL Log (Master Security Code or Dealer Keypad Program Code required to view this function) Displays most recent openings and closings. Line 1 displays event and date; line 2 displays time, area and user. To check previous events, scroll back using the **PRIOR** button.

DISPLAY
SYSTEM LOG Y/N

Display System Log (Master Security Code or Dealer Keypad Program Code required to view this function) Displays most recent system events. Line 1 displays event and date; line 2 displays time and other pertinent information, where necessary, depending upon event. To check previous system events, scroll back using the **PRIOR** button.

TO ARM IN 1-4 HRS
PRESS 1-4 /N

Delay Arming 1-4 hours. (Not for UL-listed systems). (Master Security Code or Dealer Keypad Program Code required to view this function). Your system may be set to arm automatically after a delay period of 1 to 4 hours.

To Delay Arm the system:

- With the function "TO ARM IN 1-4 HRS" displayed in the window, enter the desired Delay Arming time in hours (, , , or) , followed by .

At the end of this 1 - 4 hour Delay Arming period, the siren will sound a 2-second warning and the keypad will begin a 15-minute arming countdown with the sounder pulsing. The sounder may be silenced at this time by pressing **RESET**, but it will turn back on with a steady warning tone 1 minute prior to arming, at which time the building must be exited. The same steps can be used to delay a scheduled Auto Arming, if your system has been programmed as such.

ACTIVATE
PROGRAM Y/N

Activate Program? Activates the Program Mode from Keypad No. 1. (Master Security Code or Dealer Keypad Program Code required to view this function). **Note:** This feature is disabled while armed (see PROGRAMMING USER CODES). If the system includes Fire Alarm protection in addition to Burglary Alarm protection, see the GEMC-FK1 (Fire Keypad) User Guide (OI341).

ACTIVATE
DOWNLOAD Y/N

Activate Download? (Master Security Code or Dealer Keypad Program Code required to view this function). If accidentally enabled, press to exit. **Note:** This feature is disabled while armed.

DISPLAY RF
XMITTER STAT Y/N

Display RF XMITTER Stat? (Master Security Code or Dealer Keypad Program Code required to view this function). Press **YES** to check the status of up to 255 transmitters. The keypad will display:

- Zone number (Z01-Z96)
- Transmitter ID code number (6 digits)
- Point number (PT1 - PT4; "9" for unsupervised)
- Status of transmitter, as follows:
NODATA: Transmission not yet received;

FUNCTION MENU -- BURGLARY KEYPAD (CONT'D)

NORMAL: Transmitter's zone normal;
 FAULT: Transmitter's zone open;
 LOBATT: Transmitter battery low;
 TAMPER: Transmitter case open;
 S.FAIL: Supervision failure (test transmission not received within programmed time).

CHANGING USER CODES

Enable Change
(User Code) Y/N

ENTER CODE TO
CHANGE (ENTER)

ENTER NEW CODE

RE-ENTER NEW CODE

SYSTEM READY
11/01/12 12:09 AM

ENABLE (CHANGE USER CODE): (Master Security Code or Dealer Keypad Program Code required to view this function). Allows Burg User Codes to be changed (see the section "**Security, Program & User Codes**" for a full definition of "Burg User Code". In general, Burg User Codes can be used to arm and disarm the Burglary system. Changing User Codes can be performed at any GEMC-BK1 Burglary keypad; however the new User Code will only be effective within the area assigned to the keypad that was used to change the User Code. **Note:** The total number of Burg User Codes in a system is determined by the number of codes added within by PCD-Windows Quickloader download software.

Change an existing Burg User Code:

1. As detailed at the beginning of this section, press **MENU** until this "ENABLE (CHANGE USER CODE)" selection appears, then press **NEXT/YES**.
2. The keypad display reads: "ENTER CODE TO CHANGE (ENTER)". Enter the "old" code you want to change and press **ENTER**.
3. The keypad display reads: "ENTER NEW CODE". Enter the new code and press **ENTER**.
4. The keypad display reads: "RE-ENTER NEW CODE". To ensure the new code entered in step 3 is correct, re-enter new code, then press **ENTER**.

Erase an existing Burg User Code:

Burg User Codes cannot be "erased" from the system using the keypad; instead, simply "change" the "old" code to a different code using the directions above ("**Change an existing Burg User Code**"). Using PCD-Windows Quickloader download software, Burg User Codes can be erased using the **User Assignment** screen, **User/System Codes** tab.

Add a new Burg User Code:

You cannot add new Burg User Codes using the GEMC-BK1 Burglary keypad. Instead, use PCD-Windows Quickloader download software, **User Assignment** screen, **User/System Codes** tab.

Reinitialize
BSLC devices Y/N

REINITIALIZE BSLC DEVICES (Master Security Code or Dealer Keypad Program Code required to view this function). This menu item is typically used when replacing a Burglary SLC device. This selection is intended to ensure valid communication and correct operation for each Burglary SLC device in the system.

When initiated, power is removed from the GEMC-BSLC bus (the common pathway that connects all of the Burglary SLC devices), then power to the GEMC-BSLC bus is restored. Each device's pre-existing configuration (stored within each device) is retained. To ensure each device's ability to respond to the Burglary SLC circuit board, each Burglary SLC device "type" is retrieved from each device by the GEMC-BSLC circuit board (this process takes about 20 seconds, depending on the number of devices). The retrieval of each SLC device "type" indicates each device's ability to respond to the Burglary SLC circuit board; for each successful retrieval, the GEMC-BSLC instructs each device to use its pre-existing configuration.

A full Burglary SLC device initialization is also available in PCD-Windows Quickloader download software. In the PCD-Windows Quickloader toolbar, click **Panel History**, **Status History**, and click the "**Burg SLC Init**" button.



GEMC-FK1 KEYPAD CONFIGURATION MODE

This section will focus on configuring the GEMC-FK1 keypad. For configuring the GEMC-BK1 keypad, see the next page.

OVERVIEW

The GEMC-FK1 is a 2-line LCD Fire access keypad and is the primary operator interface for the Fire section of your Gemini C-Series Combination Commercial Fire and Burglary Alarm System. For Fire-Only or Fire/Burglary combination systems, a GEM-FK1 is recommended for use as the primary operator interface (Keypad #1). The GEMC-FK1 keypad meets the requirements of NFPA and UL864 (9th Edition) as the primary operator interface. If there is more than one keypad in the system, *only the keypad addressed as Keypad Number 1 may be used for programming* (see **Keypad Address**, below).







The Gemini C-Series system supports up to fifteen (15) system keypads maximum, with a maximum of seven (7) GEMC-FK1 Fire keypads allowed only in Area 1. The maximum number of Burglary keypads allowed decreases as Fire keypads (or GEM-ACM modules) are added to the system.

Each keypad must be assigned an address number (1–15) and each requires its own configuration procedure (detailed below). At least one GEMC-FK1 Fire keypad must be used; only one GEMC-BK1 keypad is required for a single-area Commercial Burglary installation, and only one GEMC-FK1 keypad is required for a single-area Commercial Fire installation. GEMC-BK1 and GEMC-FK1 keypads may be intermixed but require different configuration procedures, as described below and in the following pages.

CONFIGURING EACH KEYPAD

Each GEMC-FK1 keypad can be configured for (a) keypad tactile beep and (b) keypad address. Be aware that when in Keypad Configuration Mode, *the Fire alarm system stops, and is therefore unable to protect life and property*.





To enter Keypad Configuration Mode:

1. Move jumper J1 (located at the lower center of the control panel circuit board) from pins 1-2 (top two) to pins 2-3 (bottom two). **NOTE:** See the Wiring Diagram and the "Jumper J1" illustration at right.
IMPORTANT: DO NOT touch the J1 jumper for 2 minutes following any download.
2. After about 15 seconds, the keypad display will read "XX OUT OF SYSTEM", where "XX" indicates the current keypad address. All keypads are programmed at the factory as address "01" (the primary operator interface).
3. Press       and proceed as follows (repeat the following procedure for all keypads in the system).

Keypad Beep

ON

Keypad Tactile 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  button (notice the  button toggles the tactile beep on and off). Press the  button to continue to the next item or press the  button to exit.

Keypad Address



01

Keypad Address

If more than one keypad is installed, each must be assigned a unique keypad address number (that is, no two keypads may be numbered alike):

-  Keypads must be numbered consecutively (missing numbers are not permitted)
-  Only Keypad No. 1 may be used for programming

To assign the keypad number:

1. Enter the assigned two-digit keypad number 01–15, then press the  button to save. A valid number will be acknowledged by a short beep; an invalid number will be rejected by a long beep.
2. Press the  button to exit.

GEMC-BK1 KEYPAD CONFIGURATION MODE

This section will focus on configuring the GEMC-BK1 Burglary keypad. For configuring the GEMC-FK1 Fire keypad, see the previous page.

KEYPAD INSTALLATION OVERVIEW

The GEMC-BK1 is a 2-line LCD Burglary access keypad and is the primary operator interface for the Burglary section of your Gemini C-Series Combination Commercial Fire and Burglary Alarm System. For Fire-Only or Fire/Burglary combination systems, a GEMC-FK1 is recommended for use as Keypad #1; for Burglary-Only systems, a GEMC-BK1 is recommended for use as Keypad #1. The GEMC-BK1 keypad meets the requirements of UL864 (9th Edition) as the primary operator interface.

Supports up to fifteen (15) system keypads maximum, with a maximum of seven (7) GEMC-FK1 Fire keypads allowed only in Area 1. The maximum number of Burglary keypads allowed decreases as Fire keypads (or GEM-ACM modules) are added to the system.

System limit examples:

- **Burg-Only System:** Zero Fire keypads in Area 1, 15 Burglary keypads in Areas 2-8
- **Combination System:** 1 Fire keypad in Area 1, 14 Burglary keypads in Areas 2-8
- **Combination System:** 7 Fire keypads in Area 1, 8 Burglary keypads in Areas 2-8
- **Fire-Only System:** 7 Fire keypads maximum in Area 1 (one Area only in the system)

At least one keypad must be used; only one GEMC-BK1 keypad is required for a single-area Commercial Burglary installation, and only one GEMC-FK1 keypad is required for a single-area Commercial Fire installation. GEMC-BK1 / GEMC-FK1 keypads may be intermixed but require different configuration procedures, as described in the following paragraphs and further in this manual. If there is more than one keypad in the system, only the keypad addressed as Keypad Number 1 may be used for programming (see **Keypad Address**, below).

CONFIGURING EACH KEYPAD

Each GEMC-BK1 keypad must be configured for (a) keypad tactile beep; (b) keypad address and (c) Compatibility number.

To enter the GEMC-BK1 Configuration Mode:

1. Move jumper J1 (located at the upper center of the control panel printed circuit board) from pins 1-2 (top two) to pins 2-3 (bottom two). **NOTE:** See the Wiring Diagram.
IMPORTANT: DO NOT touch the J1 jumper for 2 minutes following any download.
2. After about 15 seconds, the keypad display will read "XX OUT OF SYSTEM", where "XX" indicates the current keypad address. All keypad are programmed at the factory as address "01".
3. Press **1** **1** **1** **2** **3** **MENU** and proceed as follows (repeat the following procedure for all keypads in the system).

Keypad Beep

ON

Keypad Tactile Beep

Upon entering the Keypad Configuration Mode, "KEYPAD BEEP ON" will be displayed, indicating that the tactile beep, which sounds when any button is pressed, is on. To turn off the tactile beep, press the **ENTR** button (notice the **ENTR** button toggles the tactile beep on and off). Press the **MENU** button to continue or press the **RESET** button to exit.

Entry Sounder

ON

Entry Sounder

To turn off the keypad sounder during the entry delay time, press the **ENTR** button (the **ENTR** button toggles the entry sounder on and off). Press the **MENU** button to continue or press the **RESET** button to exit.

Keypad Address

01


Keypad Address

If more than one keypad is installed, each must be assigned a unique keypad address number (that is, no two keypads may be numbered alike):



- ☞ Keypads must be numbered consecutively (missing numbers are not permitted)
- ☞ Only Keypad No. 1 may be used for programming

To assign the keypad number, proceed as follows:

1. Enter the assigned keypad number 01–15, then press the  button to save.



A valid number will be acknowledged by a short beep; an invalid number will be rejected by a long beep.

2. Press the  button to continue or press the  button to exit.

EZM Address

01

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 GEMC-EZM8 module or other keypad EZM's**, it must be assigned a unique address (or Group number, see Keypad Programming Workbook) similar to its keypad address. If no other EZM's 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 "22". (Each EZM must have a unique assigned group number, starting with "01" and proceeding consecutively). Press the  button to continue or press the  button to exit.

Zone Response


00

Zone Response

The normal loop response of each keypad expansion zone is 750mS, however 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" on the display, then press the  button.

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

1. Circle numbers for Zones 2, 3 and 4: (2), (4) and (8).
2. Add up the circled numbers: $2 + 4 + 8 = 14$.
3. Enter "14" at the keypad, then press the  button.



Press the  button to continue or press the  button to exit.

Prog Control
Message

1

Program Control Message

The Access-Control message normally displays "**ENTER NOW**" however this display may be changed to any of the following messages as displayed in the table at right:

Press the  button to continue (the display will loop back through selections, for changes) or press the  button to exit the Keypad Configuration Mode (display will read "01 OUT OF SYSTEM"). Then replace Jumper JP5 across Pins 1–2 (top two).

Program Control Messages

0	(No Message)
1	**Enter Now**
2	Door Control
3	Gate Control
4	Light Control
5	Control #1
6	Control #2

EASY MENU DRIVEN PROGRAM MODE

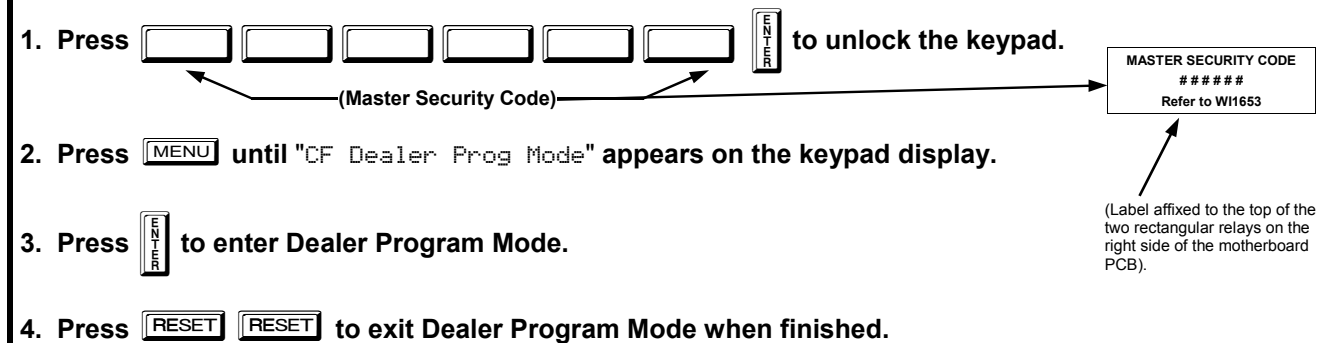
DEALER PROGRAM (PRELIMINARY INFORMATION)

The Master Security Code is printed on the label affixed to the label stuck to the top of the two rectangular relays on the right side of the motherboard PCB. Use this code to enter the Easy Menu Driven Program Mode to program a custom Dealer Keypad Program Code. Record the number, then remove the code label to prevent unauthorized access to the panel (keep the code label in a safe place). If you forget your custom Dealer Keypad Program Code, use the Master Security Code to enter programming.

- After entering codes or data, press the save **ENTER** button. Data will not be stored into memory unless **ENTER** is pressed.
- If the keypad is in Program Mode and no activity is detected for longer than 4 minutes, a steady tone will sound.
- Silence the sounder by pressing the "Acknowledge" **ACK** button to continue, or by pressing **RESET** to exit.
- A panel that has been *COLD STARTED* (address location 8179) performs identically to a new panel and displays system trouble "ERRORcheck Required".
- When programming more than 2 areas, Direct Address Programming Mode must be used to complete the program.

KEYPAD #1: Keypad Programming can ONLY be made using a GEMC-FK1 Fire keypad addressed as keypad #1 and wired to the Fire bus (not the Burg bus). For UL installations, keypad programming is used for the initial set-up/test only. After keypad programming, the system must first be uploaded to the PCD-Windows Quickloader software; the account type must be selected (either *UL Commercial Fire* or *UL Commercial Fire and Burglary*), and after error checking is completed, the program must then be downloaded back to the panel. For Burglary-only systems, a GEMC-BK1 Burglary keypad may be used.

ACCESSING DEALER PROGRAM MODE



CUSTOMIZING A DEFAULT PROGRAM

For new panels, you can design a default program that will best suit your application. Using this procedure, you will configure the panel for:

- Total Number of Fire Zones in Area 1
- Total Number of Burg Zones in Area 2
- Local or Central Station Reporting System
- Exit/Entry Zones in Areas 2-8
- Interior Zones
- 24 Hour Zones in Area 2 and Up
- Chime Zones in Area 2 and Up
- Chime 2 Zones in Area 2 and Up
- Exit/Entry 2 Zones in Area 2 and Up
- 50mS Loop Response Zones (Note: 750mS is required for Loop Response time in UL installations)
- Burg Module PGM1 Output Activated on Alarm Zones
- Sensor Watch Zones
- Keypad Sounder On Alarm Zones
- Auto Bypass Re-entry Zones
- Enable No EOLR Zones
- Enable Telco Line Fault Test?
- Enable Burg Bell Chirp on Keyfob?
- Number of Fire Keypads in Area 1
- Number of Keypads in Area 2
- Central Station Receiver 1 Telephone Number
- Central Station Receiver 1 Account Number
- Central Station Receiver 1 Format
- Enter User Codes
- RF Transmitter/SLC Points
- Keyfob Transmitters as Arm/Disarm & Control Devices
- Enter Zone Descriptions
- Enter Date
- Enter Time
- Enter a Dealer Keypad Program Code

This procedure will automatically set up system keypads, EZMs, wireless transmitters, etc. After your basic default program has been loaded, you may alter it as necessary in the Direct Address Program Mode.

NEW PANELS: The custom default program may be created for new panels only. Once the panel has been programmed by any means, the number of areas, number of zones, Fire zones, entry/exit zones and interior zones will be suppressed and cannot be changed. **Should it be necessary to create a new custom default program, perform as follows:** From the Dealer Program Mode, press the **RESET** button to enter the Direct Address Program Mode. Then access Location **8177** "Clear Program" and press the **ENTER** button and start over.



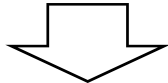
EASY MENU-DRIVEN PROGRAM MODE-- FIRE KEYPAD

SYSTEM NORMAL
11/01/14 12:05 AM

Unlock the GEMC-FK1
Fire Keypad by pressing
any of the following
codes:

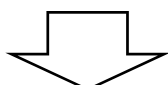
- Master Security Code
- Dealer Keypad Program Code

...then press ENTER

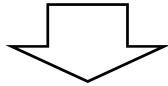


KEYPAD UNLOCKED

(press MENU)



Enters the Fire Keypad
(GEMC-FK1)
Function Menu

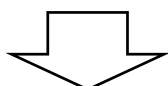


ZONE DIRECTORY

(press MENU until the
following appears:)

CF DEALER
PROG MODE

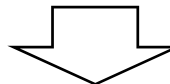
(press ENTER)



DESCRIPTION	EASY MENU-DRIVEN PROGRAM MODE KEYPAD DISPLAY
Total Number of Fire Zones in Area 1 (Seen during initial configuration only)	#of Zns in Area1 Enter # Zones 00
Total Number of Burg Zones in Area 2 (Seen during initial configuration only)	#of Zns in Area2 Enter # Zones 00
Local or Central Station Reporting System (Seen during initial configuration only)	Report All Zones To Central? Y/N
Exit/Entry Zones in Areas 2-8 (Seen during initial configuration only)	Exit/Entry Zones Enter Zone # 00
Interior Zones (Seen during initial configuration only)	Interior Zones Enter Zone # 00
24 Hour Zones in Area 2 and Up (Seen during initial configuration only)	24 Hour Zones Enter Zone # 00
Chime Zones in Area 2 and Up (Seen during initial configuration only)	Chime Zones Enter Zone # 00
Chime 2 Zones in Area 2 and Up (Seen during initial configuration only)	Chime 2 Zones Enter Zone # 00
Exit/Entry 2 Zones in Area 2 and Up (Seen during initial configuration only)	Exit/Entry 2 Zns Enter Zone # 00
50mS Loop Response Zones (Seen during initial configuration only)	50mS Loop Zones Enter Zone # 00
Burg Module PGM1 Output Activated on Alarm Zones (Seen during initial configuration only)	Aux Output Zones Enter Zone # 00
Sensor Watch Zones (Seen during initial configuration only)	Sensor Watch Zns Enter Zone # 00
Keypad Sounder On Alarm Zones (Seen during initial configuration only)	KP Sndr Alrm Zns Enter Zone # 00
Auto Bypass Re-entry Zones (Not evaluated by UL) (Seen during initial configuration only)	Auto Byp REnt Zn Enter Zone # 00
Enable No EOLR Zones (Seen during initial configuration only)	Enable No EOLR Zones Y/N
Enable Telco Line Fault Test? (Seen during initial configuration only)	Enable Telco Line Test? Y/N
Enable Burg Bell Chirp on Keyfob? (Seen during initial configuration only)	Enable Burg Out Chirp? Y/N
Number of Fire Keypads in Area 1 (Seen during and after initial configuration)	# Area 1 Keypads Enter # KPs 01
Number of Keypads in Area 2 (Seen during and after initial configuration)	# Area 2 Keypads Enter # KPs 00
Central Station Receiver 1 Telephone Number (Seen during and after initial configuration)	Central Phone # -
Central Station Receiver 1 Account Number (Seen during and after initial configuration)	Central Station Account # (_)
Central Station Receiver 1 Format (Seen during and after initial configuration)	See WI for Info Rcvr Format (_)
Enter User Codes (Seen during and after initial configuration)	Enter user code 001 123 - 1-
RF Transmitter/SLC Points (Seen during and after initial configuration)	Zn# DevID+CS P R 01- 000000:0-0 0
Keyfob Transmitters as Arm/Disarm & Control Devices (Seen during and after initial configuration)	KF A XMIT#+CS OP 01-0 000000:0 00
Enter Zone Descriptions ("cell phone" style entry) (Seen during and after initial configuration)	001-
Enter Date (Seen during and after initial configuration)	Enter Date (_ / _)
Enter Time (Seen during and after initial configuration)	Enter Time (_ : _)
Enter a Dealer Keypad Program Code (Seen during and after initial configuration)	Dealer Code -

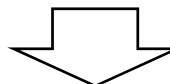
...press **NEXT** to
scroll through the
Easy Menu...

Press **[RESET]** button
(at any time)

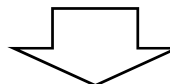


DIRECT ADDRESS
PROGRAM MODE

0000 C3 H
ADDR DATA



Press **[RESET]** button
(at any time)



Return to
Normal Operation

SYSTEM NORMAL
11/01/14 12:05 AM


EASY MENU-DRIVEN PROGRAM MODE

To create a custom program in a Fire or Fire/Burg system using the GEMC-FK1 keypad, simply answer the following questions and record your information on the *Easy Menu Programming Worksheet*. In each of the following steps, press **MENU** to set cursor, the **NEXT** button to go forwards, the **PRIOR** button to go backwards, **ENTER** to save and **RESET** twice to exit at any time. **Note:** For Burg-only systems with a GEMC-BK1 keypad in Area 1, some of the questions below may be different.

```
#of Zns in Area1
Enter # Zones 08
```

(Direct Entry)

Total Number of Fire Zones in Area 1 *(Seen during initial configuration only)*


- Enter the total number of Fire zones to be programmed for Area 1.
- Valid entries are from 08 to 96. Directly enter the total number of zones, including leading zeros.
- The system is based on groups of 4 zones each (after the first 8 zones), and will automatically round up to the next group of 4. For example, if you enter 18, it will automatically convert this to 20 zones. Press  to save. Press the **NEXT** button to proceed.

Note: The GEMC control panels are limited to a maximum of 96 zones and 15 keypads that can be programmed in Easy Menu-Driven Program Mode. For larger systems, use the PCD-Windows Download software.

```
#of Zns in Area2
Enter # Zones 00
```

(Direct Entry)

Total Number of Burg Zones in Area 2 *(Seen during initial configuration only)*

- Enter the total number of Burg zones to be programmed for Area 2.
- Valid entries are from 00 to 88. Directly enter the total number of zones, including leading zeros.
- The system is based on groups of 4 zones each (after the first 8 zones), and will automatically round up to the next group of 4. For example, if you enter 18, it will automatically convert this to 20 zones. Press  to save. Press the **NEXT** button to proceed.

Note: For adding zones in Areas 3-8, use either Direct Address Program Mode or use PCD-Windows Quickloader download software (recommended).

```
Report All Zones
To Central? Y/N
```

(Press YES or NO)


Local or Central Station Reporting System *(Seen during initial configuration only)*

Press the **NEXT** button for all zones to report; press the **PRIOR** button for local system.

```
Exit/Entry Zones
Enter Zone # 00
```

(Direct Entry)

Exit/Entry Zones in Areas 2-8 *(Seen during initial configuration only)*


- Enter the zone numbers of zones to be used as Exit/Entry zones.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and repeat for any additional zone(s); press **NEXT** to proceed.

NOTE: Entry Delay Time of 30 seconds and Exit Delay Time of 60 seconds will automatically be programmed.

```
Interior Zones
Enter Zone # 00
```

(Direct Entry)


Interior Zones *(Seen during initial configuration only)*

- Enter the zone numbers to be used as Exit/Entry Follower Zones.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s).
- Press the **NEXT** button to proceed.

```
24 Hour Zones
Enter Zone # 00
```

(Direct Entry)

24 Hour Zones in Area 2 and Up *(Seen during initial configuration only)*

- Enter the zone numbers of zones to be used as 24 Hour zones.
- Valid entries are from 02 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and repeat for any additional zone(s); press the **NEXT** button to proceed.


NOTE: 24 Hour Zones will automatically be programmed as audible (Burg Bell).




```
Chime Zones
Enter Zone # 00
```

(Direct Entry)

Chime Zones in Area 2 and Up *(Seen during initial configuration only)*


- Enter the zone numbers which are to be used as Chime Zones.
- Valid entries are from 02 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), press the **NEXT** button to proceed.

NOTE: A chime time of 2 seconds will be automatically programmed.

```
Chime 2 Zones
Enter Zone # 00
```

(Direct Entry)

Chime 2 Zones in Area 2 and Up *(Seen during initial configuration only)*

- Enter the zone numbers which are to be used as Chime 2 Zones.
- Valid entries are from 02 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the **NEXT** button to proceed.


NOTE: A chime time of 2 seconds will be automatically programmed.

Chime 2 zones give a distinct pulsating tone when zone is faulted.

```
Exit/Entry 2 Zns
Enter Zone # 00
```

(Direct Entry)

Exit/Entry 2 Zones in Area 2 and Up *(Seen during initial configuration only)*


- Enter the zone numbers of zones to be used as Exit/Entry zones.
- Valid entries are from 02 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and repeat for any additional zone(s); press the **NEXT** button to proceed.

NOTE: An Entry Delay Time of 30 seconds and an Exit Delay Time of 60 seconds will automatically be programmed.

```
50mS Loop Zones
Enter Zone # 00
```

(Direct Entry)


50mS Loop Response Zones *(Seen during initial configuration only)*

- Enter the zone numbers of zones to have a 50mS loop response.
- Valid entries are from 01 to 08. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the **NEXT** button to proceed. **Note:** Only panel zones 01-08 can be programmed for Quick Loop Response. All other zones can be programmed via their respective EZM's (hardwire). **Note: 750mS is required for Loop Response time in UL installations.**

```
Aux Output Zones
Enter Zone # 00
```

(Direct Entry)

Burg Module PGM1 Output Activated on Alarm Zones *(Seen during initial configuration only)*


- Enter the zone numbers of zones to activate the Burg PGM1 Output upon alarm.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save, then repeat for any additional zone(s), Press **NEXT** to proceed.

NOTE: A Burg Module PGM1 Output Timeout of 15 minutes will automatically be programmed.

```
Sensor Watch Zns
Enter Zone # 00
```

(Direct Entry)

Sensor Watch Zones *(Seen during initial configuration only)*


- Enter the zone numbers of zones to be Sensor Watch zones.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the **NEXT** button to proceed.

NOTE: A Sensor Watch Time of 24 hours will automatically be programmed.

```
KP Sndr Alrm Zns
Enter Zone # 00
```

(Direct Entry)

Keypad Sounder On Alarm Zones *(Seen during initial configuration only)*

- Enter the zone numbers of all zones to activate the Keypad Sounder upon alarm.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the **NEXT** button to proceed.

```
Auto Byp REnt Zn
Enter Zone # 00
```

(Direct Entry)

```
Enable No EOLR
Zones Y/N
```

(Press YES or NO)

```
Enable Telco
Line Test? Y/N
```

(Press YES or NO)

```
Enable Burg Out
Chirp? Y/N
```

(Press YES or NO)

```
# Area 1 Keypads
Enter # KPs 01
```

(Direct Entry)

```
# Area 2 Keypads
Enter # KPs 00
```


(Direct Entry)

```
Central Phone #
```

—

(Direct Entry)

Auto Bypass Re-entry Zones (Seen during initial configuration only) (Not evaluated by UL)

- Enter the zone numbers of zones to be Auto Bypass Re-entry zones.
- Valid entries are from 01 to 96. Directly enter each zone number, including leading zeros.
- Press  to save and then repeat for any additional zone(s), Press the **NEXT** button to proceed.
- Auto Bypass Re-entry Zones allow the system to be armed with the zone faulted but come back into the system (armed) when the zone is subsequently closed.

Enable No EOLR Zones (Seen during initial configuration only)

- Press **NEXT** to program all zones except 24 Hr & Fire zones for No End Of Line Resistor. Press **PRIOR** to continue.
- Do not program this feature for UL Installations.


Enable Telco Line Fault Test?

- Press **NEXT** to enable Telco Line Fault Test.
- Press **PRIOR** to continue. **NOTE: If enabled, a Telco Line Fault Test Delay of 60 sec. will automatically be programmed.**


Enable Burg Bell Chirp on Keyfob?

- Press the **NEXT** button to enable Burg Bell Chirp on KeyFob Arm / Disarm.
 - Press the **PRIOR** button to continue.
- NOTE:** The Burg Bell will chirp once on Keyfob Arm and twice on Keyfob Disarm.










Number of Fire Keypads in Area 1

- Enter the total number of Fire Keypads to be installed in Area 1.
 - Valid entries from 01-07. Directly enter the number of keypads, including leading zeros.
- Press  to save. Press the **NEXT** button to proceed.

Number of Keypads in Area 2

- Enter the total number of Keypads to be installed in Area 2.
 - Valid entries are from 00 to 15. Directly enter the number of keypads, including leading zeros.
- Press  to save. Press the **NEXT** button to proceed. **NOTE:** Area 2 keypads must have zones in Area 2, otherwise the keypad will indicate "Out Of System". System allows up to fifteen (15) system keypads maximum, with a maximum of seven (7) GEMC-FK1 Fire keypads allowed only in Area 1. The maximum number of Burglary keypads allowed decreases as Fire keypads (or GEM-ACM modules) are added to the system.





Central Station Receiver 1 Telephone Number

- Enter telephone number of up to 16 digits.
- Press  through  for digits 1–9;  for a zero and  for a blank (*).
- Press  through  for letters B–F, respectively.
- Dialing pause (3 sec.) = "D" (); Dial-Tone Detection = "E" (.
- Press  to save and press the **NEXT** button to proceed.

NOTE: Central Station Receiver 2 and 3 Telephone Numbers must be entered in Direct Address Programming. See CS Receiver Options.

Easy Programming of Auto download ID #'s and PC Preset Callback Numbers



(GEMC-FK1 keypad only) from the Central Station telephone number. For unattended PC Preset downloading, it is now possible to set the Auto download ID #'s and PC Preset Callback from the Easy Menu Driven Program Mode.

- At the field for CENTRAL PHONE #, program an "F" followed by the Auto Download ID # (2 digits) and then the Callback Telco # (up to 13 digits).
- Press  to save.
- Exit Program Mode ( ).
- Enter Master Code.
- Press .
- Go to Function "ACTIVATE DOWNLOAD Y/N" and press **NEXT**.
- The panel will automatically call the PC Preset computer and download the program on the specified Auto Download line # of PC Preset.

EXAMPLE:

Program an Auto download ID # of 07 and a PC Preset Callback # of 1-516-842-9400.






```
CENTRAL PHONE #
F0715168429400
```

Go to **CENTRAL PHONE #** input screen and press:  [5] [0] [7] [1] [5] [1] [6] [8] [4] [2] [9] [4] [0] [0] .

```
Central Station
Account # ( _ )
```

(Direct Entry)

Central Station Receiver 1 Account Number










- Enter an account number of up to four digits.
- Press  through  for digits 0–9, and   for a blank (*).
- Press  to save and press the **NEXT** button to proceed.

NOTE: Central Station Receiver 2 and 3 Account Numbers must be entered in Direct Address Programming. See CS Reporting Options.

```
See WI for Info
Rcvr Format ( _ )
```

(Direct Entry)

Central Station Receiver 1 Format

- From the table below enter the receiver format.
- Press  through , and   for blank (*).
- Press   through   for letters B–E.
- Press  to save and press the **NEXT** button to proceed.

RECEIVER FORMATS

ENTRY	RECEIVER FORMAT
0	Ademco Point ID*
1	SIA*
2	AES (not used)
3	GEMC-NL-MOD (Sends proprietary format to NAPCO NetLink NL-CSRCV Central Station Receiver)

*These formats do not use programmable codes, but Event ID Codes to identify the type of zone as follows:

01 – Fire
02 – Panic
03 – Burglary
04 – Holdup

05 – Fire Supervision
06 – Fire Waterflow
08 – Heat Alarm
09 – General Alarm
0A – Auxiliary Alarm
(keypad displays "0")
0B – 24-Hour Auxiliary Alarm
0C – Burg Perimeter

0D – Burg Interior
0E – Burg Exit/Entry
0F – Tamper
11 – AC Fail
12 – Low Battery (battery test failure)
13 – Fire Tamper EZM
14 – Ground Fault
15 – Smoke

16 – Combustion
17 – Pull Station
18 – Duct
19 – Carbon Monoxide

Enter user code	
001 123	- 1-
User#	User Code

Enter User Codes (Press the **MENU** button to set cursor.)

Enter up to 195 User Codes with User Options, Authority Level and Access Control Options (if necessary) for each code. Refer to the tables below and on the next page for available data entries for User Options, Authority Level and Access Control Options. **Note:** All 195 Users must be assigned to areas in "Enable User Code by Area". Only Users 1-195 can be assigned through addresses 5380-5574 in Direct Address Programming; other User Areas must be assigned through the PCD-Windows software.

- ➡ Press the **MENU** button to set the cursor to the User Code. Use the number buttons **1** through **9P** to enter a code from 3 to 6 digits. Enter up to 6 digits in the first six boxes from left to right for each user code. Valid entries are: 0-9. **Note:** Press the **0** button for a zero. No blank spaces in between; leave blank (*) any trailing boxes. If an "Ambush Code" (Address 0990) is entered, *do not* program the first two digits of ANY User Code as the same digits entered for the "Ambush Code".
- ➡ If the programmed code is less than 6 digits, press the **MENU** button to set the cursor to the OPTION/LEVEL.
- ➡ Refer to the tables below for the available User Option and User Level data entries. Enter the user options data in the left digit. Enter the level data (with arming options, if any, added) in the right digit. **Note:** For entries greater than 9, press the **ACK** **1** buttons through the **ACK** **5** buttons for B through F, respectively.
- ➡ For Keypad Access Control, press the **MENU** button once again to program applicable keypads. Refer to the tables below, use the number buttons to enter the data for Keypad 1-4 in the right digit; and the data for Keypad 5-8 data in the left digit. (Press the **0** buttons for blank).
- ➡ Press **1** to save each code.

To proceed to the next User Code, set the cursor to the User Number and change it using the number buttons. Program a new User Code as previously described. Press **NEXT** button to proceed.

Example: Enter a code of "123456" as "123456" (from left to right).

USER OPTIONS									
USER CODE (UP TO 6 DIGITS)						USER OPTION	USER LEVEL	ACCESS CONTROL KEYPADS	

USER OPTIONS				
DATA ENTRIES	BLOCKED VIEW	USER PROGRAM	BYPASS	OVERVIEW
blank (*)		DISABLED		
1	Y			
2		Y		
3	Y	Y		
4			Y	
5	Y		Y	
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C			Y	Y
D	Y		Y	Y
E		Y	Y	Y
F	Y	Y	Y	Y

Note: "Y" indicates option is enabled.

DATA ENTRIES	AUTHORITY LEVEL	CODE TYPE
blank (*)	NONE	ARM/DISARM
1	LEVEL 1	ARM/DISARM
2	LEVEL 2	ARM/DISARM
3	LEVEL 3	ARM/DISARM
4	NONE	ARM ONLY
5	LEVEL 1	ARM ONLY
6	LEVEL 2	ARM ONLY
7	LEVEL 3	ARM ONLY
8	NONE	SERVICE
9	LEVEL 1	SERVICE
0	LEVEL 2	SERVICE
B	LEVEL 3	SERVICE
C*	NONE	AMBUSH
D*	LEVEL 1	AMBUSH
E*	LEVEL 2	AMBUSH
F*	LEVEL 3	AMBUSH

***Note:** These entries are only available when address 7953 option 8 is enabled.

ACCESS CONTROL KEYPADS				
DATA ENTRIES	K.P. 5	K.P. 6	K.P. 7	K.P. 8
blank (*)	NONE			
1	Y			
2		Y		
3	Y	Y		
4			Y	
5	Y		Y	
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C			Y	Y
D	Y		Y	Y
E		Y	Y	Y
F	Y	Y	Y	Y

Note: "Y" indicates option is enabled.

ACCESS CONTROL KEYPADS				
DATA ENTRIES	K.P. 1	K.P. 2	K.P. 3	K.P. 4
blank (*)	NONE			
1	Y			
2		Y		
3	Y	Y		
4			Y	
5	Y		Y	
6		Y	Y	
7	Y	Y	Y	
8				Y
9	Y			Y
0		Y		Y
B	Y	Y		Y
C			Y	Y
D	Y		Y	Y
E		Y	Y	Y
F	Y	Y	Y	Y

Note: "Y" indicates option is enabled.

(continued)



Enter User Codes (cont'd)

USER AUTHORITY LEVEL	
KEYPAD DISPLAY FUNCTION MENU	
FUNCTION	LEVEL*
DISPLAY ZN FAULTS	1
DISPLAY ZN BYPASSED	1
DISPLAY ZN DIRECTORY	1
ACTIVATE BELL TEST	1
DISPLAY PHONE #'S	1
DISPLAY SYS TRBL	1
DISPLAY FIRE ALARM	1
DISPLAY FIRE TRBL	1
DISPLAY OP/CL	3
ACTIVATE OVERVIEW	3**
ACTIVATE CHIME	1
ACTIVATE WATCH	2
RESET SYSTEM TRBL	3
RESET SENSOR MSG	3
START EXIT TIME	1
FAULT FIND	***
ACTIVATE DIALER TEST	3
DISPLAY ALARM LOG	3
DISPLAY TOTAL LOG	3
DISPLAY FIRE LOG	3
DISPLAY OP/CL LOG	3
DISPLAY SYSTEM LOG	3
AUTOARM IN 1-4HRS	2
DISPLAY AUTOARM SCHD	3
ACTIVATE PROGRAM	3**
ACTIVATE DOWNLOAD	3
DISPLY RF XMITTER STAT	1
RELAY CONTROL	1



BURGLARY USER OPTIONS	
OPTIONS	EXPLANATION
Disabled	User Code not active in this area.
Blocked View	Allows User Code to block another code from being viewed by another user. An unblocked code cannot view a blocked code, but a blocked code can view all codes. The master user code and the dealer program code can view all codes.
User Program	User Program Option is enabled for Keypad 1 only, wherever it is connected (any area). If enabled, Level 3 must also be enabled.
Bypass	Allows User Code to bypass zones.
Overview	This option, along with Level 3 Authorization, enables selection of OVERVIEW mode at a keypad. This Mode provides a system status display of all areas at a glance.
Arm Only	Prevents User Code from disarming this area.
Service	A Service Code has restricted arm/disarm rights; if an area is armed with a Service Code, a "S" appears on the GEMC-FK1 keypad and the area can be disarmed with any valid User Code, including a Service Code. If the area is armed with OTHER than a Service Code, it CANNOT be disarmed with a Service Code. This is typically used to allow tradesmen access to premises under control of the owner.
Ambush	There are two types of Ambush Codes: (1) A 2-digit code (prefix) that is entered immediately prior to (and as part of) the regular User Code and (2) A separate and unique User Code. Disarming with an Ambush Code will cause a silent report to be sent to a central station. Thus, should a user be forced to disarm, he can silently signal an emergency while appearing to be merely disarming the system.
Access	This is normally used to activate a door striker while an area is disarmed. A code with the access option will not function as an arm/disarm code. When the code is entered, the keypad will display "ENTER NOW" and the brown wire on the keypad will become Active Low (ground potential) for 7 seconds.

Related User Options: "Ambush Code" (Address 0990), "Panel Access Code" (Address 0985), "Dealer Security Code" (Address 0995) & "Enable User Code by Area" (Address 5380-5574).

NOTES:

- * Minimum Level required to access function.
- ** Level-3 Code with appropriate user option.
- *** Requires Dealer Keypad Program Code.

Example: Program a code of "2222" for user 02, with User Option of "User Program", User "Level 3" and Access Control Option "Keypad No. 1". Enter "2222" for a user code, "2 3" for user option and "blank(*) 1" for access control option.

CHANGING OR CANCELING A CODE: To change any code, merely program over the existing code as described above and press  to save. Similarly, to cancel a code, blank out each number of the code and press  to save.

```

Zn# DevID+CS P R
01- 000000:0-0 0

```

Zone # Xmitter Check Point
Mapped to ID Sum #

```

Zn# DevID+CS P R
01- 000000:0-0 0

```

```

Zn# DevID+CS P R
01- ENROLL:0-0 0

```

RF Transmitter/SLC Points (Press **MENU** to set cursor.)

For each transmitter enter: (For wireless systems only. Also see Quick Method, which follows)

- The **zone number** (01–96) to which the transmitter will be mapped.
- The **6-digit RF ID #** and **1-digit checksum number** printed on the transmitter and box,
- The **point number** (1–2); enter "9" for unsupervised (all points).
- Press **ENTER** to save and **NEXT** button to proceed when all transmitters have been entered.
- The GEMC panels allow up to 255 RF Transmitter Points with the PCD-Windows Download software.
- For programming SLC Points, refer to the GEMC-BSLC (WI1648) or GEMC-FW-SLC (WI1647) manuals.

NOTE: When programming the ID Code number, "0" through "9" = **0** through **9P**; A = **ACK** **0**; B = **ACK** **1**; C = **ACK** **2**; D = **ACK** **3**; E = **ACK** **4** and "F" = **ACK** **5**.

Quick Method (Enroll Method). If a receiver is already installed in the panel, transmitter wireless points can be programmed automatically ("enrolled") using the following procedure.

NOTE: The transmitter point will be enrolled only if the signal strength is 3 or greater.

1. Enter the zone number to which the transmitter point will be mapped.
2. Press **SILENCE** to enter the Enroll Mode. The red and green LED's on the keypad will flash and the window will display as shown at left.
3. Open the loop of the point that is to be programmed (GEMC-WL-WD2 only).
4. Install the transmitter battery. The keypad will beep to indicate that the point has been successfully enrolled. Multi-point transmitters can be mapped to successive zones simultaneously.

Example. A 2-point transmitter has the RF ID number 287613:1. Map point 1 to Zone 6 and point 2 to Zone 9.

1. Enter the Enroll mode as described above.
2. Enter Zone "06".
3. Open point-1 loop.
4. Install the battery. The keypad will beep once to indicate that one point has been programmed. (Transmitter 287613:1, point 1 will be mapped to Zone 6).
5. Enter Zone "09".
6. Close point-1 loop and open point-2 loop.
7. Remove the transmitter battery, then re-install it. The keypad will beep once to indicate that one point has been programmed. (Transmitter 287613:1, point 2 is mapped to Zone 9).

KEYFOB ZONE ASSIGNMENT: Keyfobs can also be assigned to zones to allow multiple wireless panic buttons on one alarm system, each reporting to a central station, or having a description on the keypad that describes the person holding the keyfob, the location where the person holding the keyfob is stationed, or the special purpose of the keyfob button being depressed. See the next page on Keyfob Transmitters as Zone Input Devices.

```

KF A XMIT# +CS OP
01-0 000000:0 00

```

KF Area Xmitter Check Aux
ID Sum 1&2

Keyfob Transmitters as Arm/Disarm & Control Devices (Press **MENU** to set cursor.)

Keyfobs can be programmed as "Arm/Disarm" devices using their On/Off buttons (refer to WI752). (Not evaluated by UL). For each Keyfob Transmitter, enter:

- The **Keyfob Transmitter number** (01–16).
- The **area number** to which transmitter is assigned (0 to disable keyfob, 1 or 2).
- The **6-digit RF ID #** and **1-digit checksum number** printed on the transmitter and box,
- The **Aux 1 Option** (see Keyfob Aux 1 & Aux 2 options).
- The **Aux 2 Option** (see Keyfob Aux 1 & Aux 2 options).
- **NOTE:** Keyfobs 1-16 report openings and closings as Users 180-195.
- Press **ENTER** to save and **NEXT** button to proceed when all keyfobs have been entered.

NOTE: When programming the ID Code number, "0" through "9" = **0** through **9P**;

A = **ACK** **0** ; B = **ACK** **1** ; C = **ACK** **2** ; D = **ACK** **3** ; E = **ACK** **4** and "F" = **ACK** **5**.

Keyfob Transmitters as Zone Input Devices

(Refer to display above: press the PRIOR button to go backwards).

Each of the 4 keyfob buttons can be assigned to a zone. For example, On button = point 1; Off button = point 2; A1 = point 3; A2 = point 4. Up to 96 keyfobs (using 1 button) or 48 keyfobs (using 2 buttons) or 28 keyfobs (using all 4 buttons) or any combination up to a maximum of 96 controlled zones can be assigned, providing multiple wireless panic buttons on a system, each reporting to a Central Station and/or annunciating on a keypad the keyfob zone number with a description. To assign a keyfob to a zone: program the keyfob as you would a transmitter, entering the keyfob ID code, check sum and point number at the appropriate zone. The "Quick Method" is not allowed. The zone may be hardwired to an electrical sensor as well as assigned to a keyfob (either one will activate the zone alarm output). **NOTE:** If assigning a keyfob to a zone, the "ON/OFF" buttons on the keyfob will no longer arm/disarm the system. The keyfob is converted to a "panic only" device.

DATA ENTRY	AUX 1 / AUX 2 OPTIONS
0	None
1	Relay Group 1 Toggle
2	Relay Group 2 Toggle
3	Relay Group 3 Toggle
4	Relay Group 4 Toggle
5	Relay Group 5 Toggle
6	Relay Group 6 Toggle
7	Relay Group 7 Toggle
8	Relay Group 8 Toggle
9	Panic
A	Auxiliary
B	Instant
C	Burg Module PGM1 Output Toggle
D	Access Control on Burg Module PGM1 Output
E	Arm STAY
F	Interior Bypass

001---

(Direct Entry)

PRESS:	CHARACTERS DISPLAYED IN SEQUENCE
1	ABC1
2	DEF2
3	GHI3
4	JKL4
5	MNO5
6	PQR6
7F	STU7
8A	VWX8
9P	YZ90
0	(SPACE) - . () , / : ? #

HOLD ACK AND PRESS:	CHARACTERS DISPLAYED IN SEQUENCE
1	abc1
2	def2
3	ghi3
4	jkl4
5	mno5
6	pqr6
7F	stu7
8A	vwx8
9P	yz90
0	(International Characters)

Enter Zone Descriptions

- Press **1** and **2** to place the cursor; press **3** and **6** to select.
- For each zone, enter a description of up to two lines. Press **ENT** to save each description.
- To proceed to the next description, place the cursor under the Zone Number (e.g. "01") and change the Zone Number using **3** and **6**.

NOTE: Zone Descriptions can only be entered through the GEMC-FK1 Keypad or by using the Napco Quickloader Software. See Easy Menu Programming Worksheet for available zone description characters.

Enter an identifying description for each zone. Characters are selected by pressing keypad buttons multiple times, "Cell Phone" style. Buttons **1** through **9P** plus **0** and **ACK** are used, as per the tables at left:

Press **MENU** to move cursor right.

Press **SILENCE** to move cursor left.

Notes:

- After releasing the number button for 1 second, the character will be accepted and the cursor advanced to the right.
- After releasing the number button, if a new number button is pressed before the 1 second window expires, the current character will be accepted and the cursor automatically advanced to the right. The first of the 4 characters of this new number button will be displayed.
- To erase an existing entry, use **MENU** or **SILENCE** to move the cursor below the character to be changed. Enter a new character to overwrite the old.
- To generate lowercase characters, the **ACK** button must be pressed and held down while pressing the number button. If the **ACK** button is released during the 1 second window, the current character will change to uppercase. Press **ENT** to save.

To proceed to the next description, place the cursor under the Zone Number (e.g. "1") and press the number that corresponds to the zone. Repeat this procedure until all zones have been programmed. After programming the user codes, press the **NEXT** button to proceed.


```

Enter Date
( _ / / )

```

(Direct Entry)

```

Enter Time
( _ : _ )

```

(Direct Entry)

```

Dealer Code
_

```

```

Dealer Code
Re-Enter

```

Enter Date (Press **MENU** to set cursor.)

- Enter the current date in the format MM/DD/YY. (MM = month, DD = day and YY = year.
- Press **ENTER** to save. Press the **NEXT** button to proceed.

NOTE: To enter the date and time, GEMC-FK1 keypad must be used and “Enable Keypad Time/Date Display” (Address 7920) must be enabled.

Enter Time (Press **MENU** to set cursor.)

- Enter current time in format HH:MMA/P, where HH=hours (01–12); MM=minutes (00–59).
- Select AM or PM by pressing any number button to toggle selection.
- Press **ENTER** to save. Press the **NEXT** button to proceed.

NOTE: To enter the date and time, GEMC-FK1 keypad must be used and “Enable Keypad Time/Date Display” (Address 7920) must be enabled.

Dealer Code

- Directly enter the Dealer Code (default = 456789), using **0** through **9 P** buttons.
- Press **ENTER** to save. Re-enter the Dealer Code to verify the previous code. Press **ENTER** to save.
- Press the **NEXT** button to proceed.

EXIT DEALER PROGRAM MODE: This completes the custom default program. Press **RESET** to enter the Direct Address Program Mode for further programming or press **RESET** once again to end all programming and resume normal keypad operation.

CLEAR PROGRAM: Should it be necessary to create a new custom default program, (a) from the Dealer Program Mode, press **RESET** to enter the Address Program Mode; (b) access Location **8177** (Clear Program) or **8179** (Cold Start); (c) press **ENTER** and then (d) press **RESET** to exit the Dealer Program Mode. A “SYSTEM TROUBLE/E09-00 SERVICE” will occur. Press **RESET** to silence the keypad.

```

8177 XX      H

```

Clear Dealer Program (Erases Dealer Program)

Use this feature to erase the Panel Program, while maintaining Scheduled Data and Zone Descriptions. Access address **8177** and press **ENTER**. Data entry is not allowed. **NOTE:** Enter Easy Menu Driven Program Mode to reprogram system.

```

8179 XX      H

```

Cold Start (Erases Entire Program)

This erases all programmed data (Dealer Program, Zone Description Data and Schedules). Access address **8179** and press **ENTER**. Data entry is not allowed. **NOTE:** Some features (schedules) can only be programmed again with the Downloading Software.

EASY MENU PROGRAMMING WORKSHEET - 1 OF 13

Name:	Address:
Account Number:	Installer:

- Total Number of Fire Zones in Area 1
- Total Number of Burg Zones in Area 2
- Local or Central Station Reporting System
- Exit/Entry Zones in Areas 2-8
- Interior Zones
- 24 Hour Zones in Area 2 and Up
- Chime Zones in Area 2 and Up
- Chime 2 Zones in Area 2 and Up
- Exit/Entry 2 Zones in Area 2 and Up
- 50mS Loop Response Zones (Note: 750mS is required for Loop Response time in UL installations)
- Burg Module PGM1 Output Activated on Alarm Zones
- Sensor Watch Zones
- Keypad Sounder On Alarm Zones
- Auto Bypass Re-entry Zones
- Enable No EOLR Zones
- Enable Telco Line Fault Test?
- Enable Burg Bell Chirp on Keyfob?
- Number of Fire Keypads in Area 1
- Number of Keypads in Area 2
- Central Station Receiver 1 Telephone Number
- Central Station Receiver 1 Account Number
- Central Station Receiver 1 Format

[] blank (•) = Ademco Point ID

[] 1 = SIA

[] 2 = GEMC-NL-MOD (Sends proprietary format to NAPCO NetLink NL-CSRCV Central Station Receiver)

- Enter User Codes
- RF Transmitter/SLC Points
- Keyfob Transmitters as Arm/Disarm & Control Devices
- Enter Zone Descriptions
- Enter Date
- Enter Time
- Enter a Dealer Keypad Program Code

User Codes

USER #	CODE (up to 6 digits)						AREA 1 OPTIONS		AREA 2 OPTIONS	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

USER #	CODE (up to 6 digits)						AREA 1 OPTIONS		AREA 2 OPTIONS	
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										

EASY MENU PROGRAMMING WORKSHEET - 2 OF 13

User Codes (cont'd)

USER #	CODE (up to 6 digits)						AREA 1 OPTIONS		AREA 2 OPTIONS	
33.										
34.										
35.										
36.										
37.										
38.										
39.										
40.										
41.										
42.										
43.										
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70.										
71.										
72.										
73.										
74.										
75.										
76.										
77.										
78.										

USER #	CODE (up to 6 digits)						AREA 1 OPTIONS		AREA 2 OPTIONS	
79.										
80.										
81.										
82.										
83.										
84.										
85.										
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120.										
121.										
122.										
123.										
124.										



EASY MENU PROGRAMMING WORKSHEET - 3 OF 13

User Codes (cont'd)

USER #	CODE (up to 6 digits)						AREA 1 OPTIONS		AREA 2 OPTIONS	
125.										
126.										
127.										
128.										
129.										
130.										
131.										
132.										
133.										
134.										
135.										
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137.										
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151.										
152.										
153.										
154.										
155.										
156.										
157.										
158.										
159.										
160.										

USER #	CODE (up to 6 digits)						AREA 1 OPTIONS		AREA 2 OPTIONS	
161.										
162.										
163.										
164.										
165.										
166.										
167.										
168.										
169.										
170.										
171.										
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190.										
191.										
192.										
193.										
194.										
195.										

EASY MENU PROGRAMMING WORKSHEET - 4 OF 13

RF Transmitter Points or SLC Devices

XMTR #	ZONE #	RF ID (printed on xmtr box)						CHECK SUM	POINT #
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
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41									
42									
43									
44									
45									
46									
47									
48									

XMTR #	ZONE #	RF ID (printed on xmtr box)						CHECK SUM	POINT #
49									
50									
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									
61									
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93									
94									
95									
96									



EASY MENU PROGRAMMING WORKSHEET - 5 OF 13

RF Transmitter Points or SLC Devices (cont'd)

XMTR #	ZONE #	RF ID (printed on xmtr box)						CHECK SUM	POINT #
97									
98									
99									
100									
101									
102									
103									
104									
105									
106									
107									
108									
109									
110									
111									
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135									
136									
137									
138									
139									
140									
141									
142									
143									
144									

XMTR #	ZONE #	RF ID (printed on xmtr box)						CHECK SUM	POINT #
145									
146									
147									
148									
149									
150									
151									
152									
153									
154									
155									
156									
157									
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186									
187									
188									
189									
190									
191									
192									

EASY MENU PROGRAMMING WORKSHEET - 6 OF 13

RF Transmitter Points or SLC Devices (cont'd)

XMTR #	ZONE #	RF ID (printed on xmtr box)						CHECK SUM	POINT #
193									
194									
195									
196									
197									
198									
199									
200									
201									
202									
203									
204									
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230									
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233									
234									
235									
236									
237									
238									
239									
240									

XMTR #	ZONE #	RF ID (printed on xmtr box)						CHECK SUM	POINT #
241									
242									
243									
244									
245									
246									
247									
248									
249									
250									
251									
252									
253									
254									
255									



EASY MENU PROGRAMMING WORKSHEET - 7 OF 13

Keyfob Transmitters

KEYFOB #	Area (2-8)	RF ID (Printed on transmitter box)						CHECK SUM	OPTION 1	OPTION 2
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

Dealer Code

--	--	--	--	--	--

EASY MENU PROGRAMMING WORKSHEET - 8 OF 13

Zone Descriptions

ZN #	AVAILABLE CHARACTERS (See below)																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
1																													
2																													
3																													
4																													
5																													
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34																													
35																													
36																													
37																													
38																													
39																													
40																													
41																													
42																													

Characters Available for Zone Descriptions

! @ # \$ % ^ & * () _ + ! ! ! { } [] ` , . < > ? 1 2 3 4 5 6 7 8 9 0

a b c d e f g h i j k l m n o p q r s t u v w x y z

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z



EASY MENU PROGRAMMING WORKSHEET - 9 OF 13

Zone Descriptions (cont'd)

ZN #	AVAILABLE CHARACTERS (See below)																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
43																													
44																													
45																													
46																													
47																													
48																													
49																													
50																													
51																													
52																													
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83																													
84																													
85																													

EASY MENU PROGRAMMING WORKSHEET - 10 OF 13

Zone Descriptions (cont'd)

ZN #	AVAILABLE CHARACTERS (See below)																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
86																													
87																													
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124																													
125																													
126																													
127																													
128																													

EASY MENU PROGRAMMING WORKSHEET - 11 OF 13

Zone Descriptions (cont'd)

ZN #	AVAILABLE CHARACTERS (See below)																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
129																													
130																													
131																													
132																													
133																													
134																													
135																													
136																													
137																													
138																													
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166																													
167																													
168																													
169																													
170																													
171																													

EASY MENU PROGRAMMING WORKSHEET - 12 OF 13

Zone Descriptions (cont'd)

ZN #	AVAILABLE CHARACTERS (See below)																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
172																													
173																													
174																													
175																													
176																													
177																													
178																													
179																													
180																													
181																													
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213																													
214																													

EASY MENU PROGRAMMING WORKSHEET - 13 OF 13

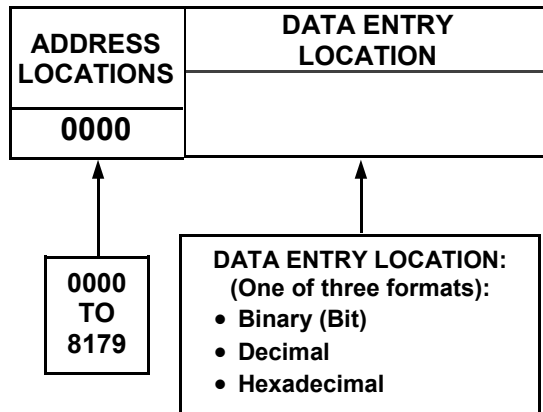
Zone Descriptions (cont'd)

ZN #	AVAILABLE CHARACTERS (See below)																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
215																													
216																													
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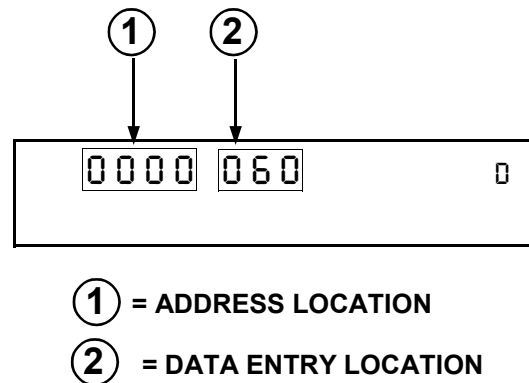
DIRECT ADDRESS PROGRAM MODE

DIRECT ADDRESS OVERVIEW

Direct Address Programming allows you to go directly to the address locations (up to 8179) and change the data entries manually in order to customize your control panel options. Whereas the Easy Menu Program Mode guides you through limited selections to get you started, **Direct Address Program Mode** allows you to change all options directly. It consists of up to 8179 address locations each with data entry locations as shown in the following diagram (below left). The data entry location accepts data in one of three formats: Binary, Decimal and Hexadecimal (explained below in "Address Mode Displays"). The following diagram (below right) illustrates a *Decimal* format data entry location (using a GEMC-FK1 Fire keypad). **Note:** *PCD-Windows MUST be used to place the Gemini C-Series system into operation.*



GEMC-FK1 Keypad Display Example



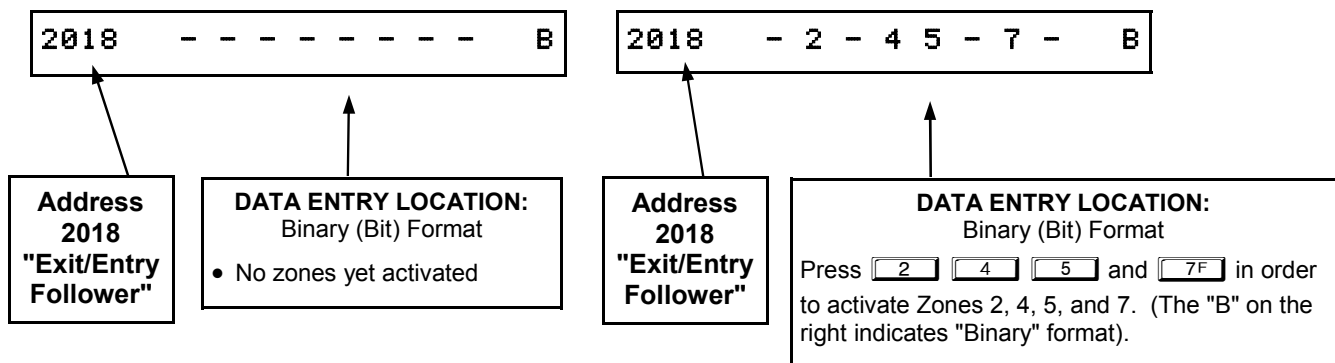
ADDRESS MODE DISPLAYS

There are three types of address displays when programming in Direct Entry Program Mode, as follows:

A) BINARY (BIT) FORMAT

Settings (such as Zone Features) display and accept data in binary "bit" or "number" format. For example, Zone Features are turned on by the pressing of keypad buttons 1 through 8, with the activated Zone(s) displaying the corresponding decimal digit (replacing deactivated zones which are signified by dashes).

EXAMPLE: With the GEMC-FK1 Fire keypad: Program Zones 2, 4, 5 and 7 as *Exit/Entry Follower Zones*.



DETERMINE THE DATA ENTRIES

Referring to the ZONE FEATURES page in the programming worksheets that follow, "Exit/Entry Follower" for zones 1 through 8 are located at address 2018.

ZONE FEATURES	ADDR	ZONES 1 → 8								ADDR	ZONES 9 → 16							
		Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8		Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
Exit/Entry Follower	2018						6	7	8	2118								

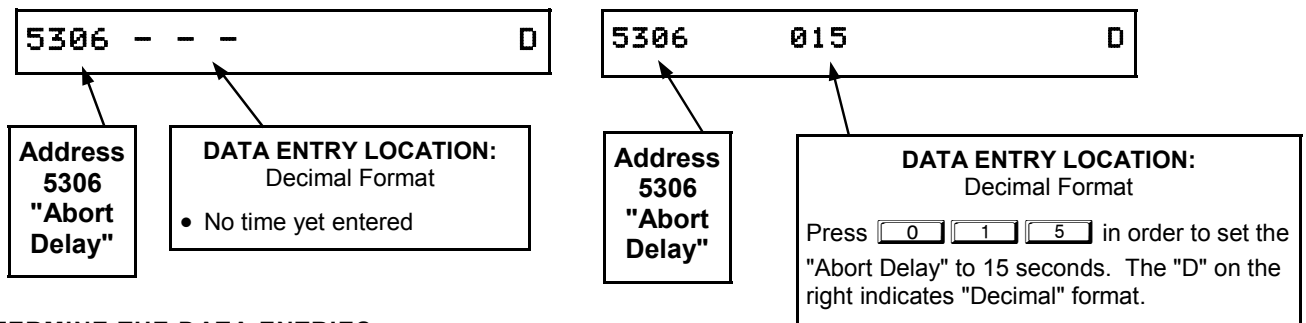
PROGRAM THE DATA ENTRIES

1. Enter the panel's Dealer Security Code, then press **[MENU]**.
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES. **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using **[SILENCE]**.
3. Press **[RESET]** to enter the Address Program Mode. Address "0000" will display.
4. Press **[2]** **[0]** **[1]** **[8A]** to access Address 2018. *The existing data will display and the cursor will advance to the data field.*
5. Press **[2]** **[4]** **[5]** **[7F]**. The numbers 2, 4, 5 and 7 will appear on the keypad display indicating the zones activated.
6. Press **[ENTER]** to save. Address 2018 is now programmed with "2, 4, 5 and 7".
7. Press **[MENU]** and enter another 4-digit address to continue programming--or--press **[RESET]** to exit and resume normal keypad operation.

B) DECIMAL FORMAT

Settings such as Entry Delay and Exit Delay display and accept data in "decimal" format, as a 3 digit number. Data is entered directly, by pressing keys 0 – 9, with the cursor automatically moving to the right upon each key press.

EXAMPLE: Entries with the GEMC-FK1 keypads: Program *Abort Delay* to be 15 seconds.



DETERMINE THE DATA ENTRIES

Referring to SYSTEM DELAYS & TIMEOUTS in the Programming Worksheets that follow, the Abort Delay is located at address 5306:



ABORT DELAY (sec.)	ADDRESS 5306		

[Default = 000]







PROGRAM THE DATA ENTRIES























1. Enter the panel's Dealer Security Code, then press **[MENU]**.
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES. **NOTE:** If you pass "ACTIVATE PROGRAM", scroll backward using **[SILENCE]**.
3. Press **[RESET]** to enter the Address Program Mode. Address "0000" will display.
4. Press **[5]** **[3]** **[0]** **[6]** to access Address 5306. *The existing data will display and the cursor will advance to the data field.*
5. Press **[0]** **[1]** **[5]**. The numbers 015 will appear on the keypad display indicating the number of

seconds entered.

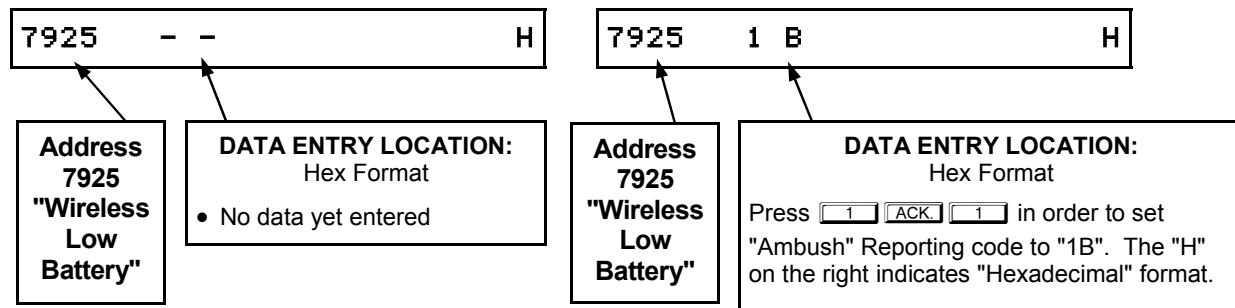
6. Press  to save. Address 5306 is now programmed with a 15-second Abort Delay.
7. Enter another 4-digit address to continue programming or press  to exit and resume normal keypad operation.

C) HEXADECIMAL FORMAT




Reporting Codes are entered by means of a hexadecimal display. Data is entered directly, by pressing keys 1 – 9,   for zero, and   through   for hex "B" through "F" (11-15), with the cursor automatically moving to the right upon each key press. See table below.

HEXADECIMAL ENTRIES					
ENTRY TOTAL	PRESS THIS KEY	KEYPAD DISPLAYS	ENTRY TOTAL	PRESS THIS KEY	KEYPAD DISPLAYS
("blank")		•	8		8
1		1	9		9
2		2	10	 	0
3		3	11	 	B
4		4	12	 	C
5		5	13	 	D
6		6	14	 	E
7		7	15	 	F

EXAMPLE: Entries with the GEMC-FK1 keypads: Program an *Alarm Trouble Reporting Code* (in a central station receiver format) to be "1B".




DETERMINE THE DATA ENTRIES













Referring to the ALARM TROUBLE REPORTING CODES table in the programming worksheets that follow, the "Wireless Low Battery" reporting code is located at address 7925; the data entries needed to assign a code of "1B" are "" and " .

ALARM/TROUBLE REPORTING CODES	Address	LEFT	RIGHT
Wireless Low Battery	7925		
Wireless Supervision	7926		
Wireless Tamper	7927		

[Default = blank (•) from address 7925-7927]

PROGRAM THE DATA ENTRIES

1. Enter the panel's Dealer Security Code, then press .
2. Answer NO to all questions until "ACTIVATE PROGRAM Y/N" is displayed; then press YES. **NOTE:** If you pass

- "ACTIVATE PROGRAM", scroll backward using .
3. Press  to enter the Address Program Mode. Address "0000" will display.
 4. Press     to access Address 7925. *The existing data will display and the cursor will advance to the data field.*
 5. Since you wish the reporting code to be "1B", press  to enter a "1" in the display, and press   to enter a "B" in the display. **NOTE:** The right address is reported first, therefore, in the address table, the right digit is the 1st digit of the reporting code ("1" in this example). The left digit is the first digit and right digit is the second digit in a two digit CS receiver format.
 6. Press  to save. Address 7925 is now programmed with a "Wireless Low Battery" reporting code of "1B".
 7. Press  and enter another 4-digit address to continue programming--or--press  to exit and resume normal keypad operation.


PROGRAMMING CONVENTIONS USED IN THIS MANUAL



The keypad programming worksheets that follow are provided as an address-programming reference to help the installer modify (via the keypad) their custom default program or to make minor field alterations to an existing control panel program. The panel **MUST** be uploaded to NAPCO's PCD-Windows software following any keypad programming; the PCD-Windows's error-check feature must be utilized to reduce the possibility of programming omissions or conflicts. Keep the Keypad Programming Worksheets on file for future reference.


General Programming Steps

1. Contact the central station to ascertain receiver format, data format, event codes, subscriber numbers and telephone number(s).
2. Select the desired features by writing in (pencil recommended) the respective "address boxes". Refer to the Programming Options and Worksheets for guidance in selecting the "data" to be entered into those boxes.
3. Program the data entered in the boxes on the worksheets into the respective addresses. See the programming examples on the previous pages.

The displays will appear after a brief delay.

- Use the  button to toggle the cursor between the 4-digit address field and the data entry locations.
- The contents of the address will be read automatically, along with the feature name and programming information. The cursor will advance to the data field. Enter the required data directly using the number buttons.

 **IMPORTANT:** Press  to save the contents of each address.

EXIT DIRECT ADDRESS PROGRAM MODE: When done, press  to exit and resume normal keypad operation.

SYSTEM DELAYS & TIMEOUTS (ADDRESS 0000-0002, 5306, 5313-5315 & 3902)

EXIT DELAY (sec.)	ADDRESS 0000		

[Default = 060]

ENTRY DELAY 1 (sec.)	ADDRESS 0001		

[Default = 030]

ENTRY DELAY 2 (sec.)	ADDRESS 0002		

[Default = 030]

ABORT DELAY (sec.)	ADDRESS 5306		

[Default = 000]

Water Flow1 Delay Time (sec.)*	ADDRESS 5313		

[Default = 000]

-  1. Select delay/timeout (0-255 seconds).

EXIT/ENTRY DELAYS: Apply only to zones programmed with the following zone options "Exit/Entry 1, Exit/Entry 2, Exit/Entry Follower". For UL Installations, the maximum exit delay is 60 seconds and the maximum entry delay is 45 seconds. **NOTE:** Sensor Watch Time Options are similar to above table, except in hours.

-  2. Press  to save.

WARNING: Timers have uncertainty of +/-1 second; therefore a "time" of 1 second **may actually timeout IMMEDIATELY.**

SYSTEM DELAYS & TIMEOUTS (ADDRESS 5307-5308, 8164 & 8174)

CHIME TIME (¼ sec.) **	ADDRESS 5307		

[Default = 008 x ¼ sec. = 2 sec.]

AC Fail Report Delay (x10 min.)	ADDRESS 5308		

[Default = 008]

For Fire systems, must be programmed
between 6-18 (60-180 minutes)

Sensor Watch Delay (hr.)	ADDRESS 8174		

[Default = 024]

Shed Burg on AC Fail (x10 min.)	ADDRESS 8164		

[Default = 000]

-  1. Enter delay/timeout in corresponding address locations above.

-  2. Press  to save.

* Water Flow1 Delay Time" (address 5313) is an option to add up to 255 seconds of delay to any Fire Zone also programmed with the Zone Option "Fire Water Flow" (see pages 43-49 for Zone Options). The maximum time allowed for UL installations is 90 seconds.

** All entries for "Chime Time" (address 5307) are in quarter seconds (.25 seconds). Therefore, the default of 008 results in a 2 second timeout.

SYSTEM DELAYS & TIMEOUTS (ADDRESS 5300-5305, 8168 & 8169)

Burg Relay Timeout (min.)	ADDRESS 5300		

[Default = 000]

Burg PGM 1 Timeout (min.)	ADDRESS 5301		

[Default = 000]

Burg PGM 1 Access Control (sec.)	ADDRESS 5302		

[Default = 000]

Burg. Bell Timeout (min.)	ADDRESS 5303		

[Default = 015]

Pulse Burg Bell Timeout (min.)	ADDRESS 5304		

[Default = 015]

Burg PGM2 Timeout (min.)	ADDRESS 5305		

[Default = 000]

Report Cancel Window (min or sec.)	ADDRESS 8168		

[Default = 000]


V.1 or less = sec.

V.3 or greater = min.

Program for at least 5 minutes in a CP-01 installation.*

Auto Disarm / Rearm Delay (min.)	ADDRESS 8169		

[Default = 000]

1. Select delay/timeout (0-255 min.).
2. Enter in corresponding address locations.
3. Press  to save.

OUTPUT TIMEOUTS: If a timeout of "0 min." is selected, then the output will remain active (ON) until the system is reset or disarmed. For UL Residential Installations, the minimum timeout is 4 minutes. For UL Commercial Installations, the minimum timeout is 15 minutes.

*Address 8168: When "Enable CP-01 Features" is selected in the Easy Program menu, this time is set to 7 minutes.

KEYPAD SYSTEM CODES (ADDRESS 0985-0987, 0990 & 0995-0997)

Panel Access Code	ADDRESS 0985-0987					
	0985		0986		0987	
	L	R	L	R	L	R

[Default = blank (•) blank (•) from address 0985-0987]

PANEL ACCESS CODE: Enter up to 6 digits to activate a door strike while the area is disarmed.

1. Enter in both left and right digits of address locations.
2. Valid entries are: 0-9.

Note: Also, "Access Control on Burg Module PGM1 Output" (Address 5323) and "Burg PGM 1 Access Control Timeout" (Address 5302) must both be enabled.

Ambush Code	ADDRESS 0990	
	LEFT	RIGHT

[Default = 99]

AMBUSH CODE: Enter a 2-digit code used just prior to disarming and will activate an Ambush Condition, causing a SILENT report to be sent to the central station.

1. Enter in both left and right digits of address locations.
2. Valid entries are: 0-9.

Note: Also, "Enable Keypad Ambush" (Address 5365- 5379), "Report on Ambush Alarm" (Address 1125, 1127, 1135 & 1137) must be enabled and "Ambush Reporting Code" (Address 0900) must be provided.

Dealer Security Code	ADDRESS 0995-0997					
	0995		0996		0997	
	L	R	L	R	L	R

[Default = blank (•) blank (•) from address 0995-0997]

DEALER SECURITY CODE: Enter up to 6 digits to be used by the dealer to enter programming.

1. Enter in both left and right digits of address locations.
2. Valid entries are: 0-9.

Note: If left blank, the Master Security Code must then be used to enter programming.

CS RECEIVER FORMAT OPTIONS (ADDRESS 1038, 0526, 1060, 0551, 1082 & 0576)

	ADDRESS 1038	
CS Receiver 1 Format		

	ADDRESS 1060	
CS Receiver 2 Format		

	ADDRESS 1082	
CS Receiver 3 Format		


Default for CS Receiver 1 Format depends on Easy Menu Question "RCVR FORMAT". [Default = • (blank) (E)] for CS Receivers 1, 2 and 3 Formats.

DATA ENTRIES		CS RECEIVER FORMATS
LEFT	RIGHT	
blank (•)	blank (•)	Ademco Point ID***
blank (•)	1	SIA***
blank (•)	2	AES (not used)
blank (•)	3	GEMC-NL-MOD (Sends proprietary format to NAPCO NetLink NL-CSRCV Central Station Receiver)

Default for CS Receiver 1 Format depends on Easy Menu Question "RCVR FORMAT". [Default = • (blank) (E)] for CS Receivers 2 and 3 Formats.

CS RECEIVER FORMATS: Up to 3 CS Formats may be programmed.

1. Select the desired CS Receiver Format from the table shown.
2. Enter the corresponding digit in the address location for each CS Receiver.

NOTE: Dark shaded data value box shows option not available. Press  to save.

***These formats do not use programmable codes, but Event ID Codes to identify the type of zone as follows:

- 01 – Fire
- 02 – Panic
- 03 – Burglary

- 04 – Holdup
- 05 – Fire Supervision
- 06 – Fire Waterflow
- 08 – Heat Alarm
- 09 – General Alarm
- 0A – Auxiliary Alarm (keypad displays "0")
- 0B – 24-Hour Auxiliary Alarm

- 0C – Burg Perimeter
- 0D – Burg Interior
- 0E – Burg Exit/Entry
- 0F – Tamper
- 11 – AC Fail
- 12 – Low Battery (battery test failure)
- 13 – Fire Tamper EZM
- 14 – Ground Fault

- 15 – Smoke
- 16 – Combustion
- 17 – Pull Station
- 18 – Duct
- 19 – Carbon Monoxide

0526	CS Receiver 1 Options	
Default		Option
OFF	1	1400Hz Handshake/Kissoff *
OFF	2	2300Hz Handshake/Kissoff *
OFF	3	Enable Zone Number on Pulse Alarm
OFF	4	Single Digit Only
OFF	5	Sum Check
OFF	6	3/1 with Extended Restores
OFF	7	Report to TCP/IP Receiver (Telco 1)**
OFF	8	RESERVED

0551	CS Receiver 2 Options	
Default		Option
OFF	1	1400Hz Handshake/Kissoff *
OFF	2	2300Hz Handshake/Kissoff *
OFF	3	Enable Zone Number on Pulse Alarm
OFF	4	Single Digit Only
OFF	5	Sum Check
OFF	6	3/1 with Extended Restores
OFF	7	Report to TCP/IP Receiver (Telco 2)**
OFF	8	RESERVED

0576	CS Receiver 3 Options	
Default		Option
OFF	1	1400Hz Handshake/Kissoff *
OFF	2	2300Hz Handshake/Kissoff *
OFF	3	Enable Zone Number on Pulse Alarm
OFF	4	Single Digit Only
OFF	5	Sum Check
OFF	6	3/1 with Extended Restores
OFF	7	Report to TCP/IP Receiver (Telco 3)**
OFF	8	RESERVED

NOTES:

* If both are selected, 1400Hz has priority over 2300Hz.

** For NAPCO NetLink™ installations only: For each telephone number desired, enable to allow the panel to report alarms via the NL-MOD accessory. See W11242 for more information.



CS RECEIVER TELEPHONE NUMBERS (ADDRESS 1040-1059, 1062-1081, 1084-1103)

CS Receiver 1 Telephone Number (Digits 1-20)	ADDRESS 1040-1059 (DIGITS 1-20)																			
	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059

CS Receiver 2 Telephone Number (Digits 1-20)	ADDRESS 1062-1081 (DIGITS 1-20)																			
	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081

CS Receiver 3 Telephone Number (Digits 1-20)	ADDRESS 1084-1103 (DIGITS 1-20)																			
	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103

Default for CS Receiver 1 Telephone Number depends on Easy Menu Question "CENTRAL PHONE #".

[Default = blank (•)] across digits 1-20 for CS Receiver Telephone Numbers 1, 2 and 3.

CS RECEIVER TELEPHONE NUMBERS: Enter telephone numbers for any of the three CS Receivers (Telco 1, 2 & 3).

☞ 1. Enter up to 20 digits from left to right. **NOTE:** Leave trailing boxes blank (•).

☞ 2. Valid entries are: 1-9, B = , C = , D = 3 sec. pause, E = Wait for dial tone, F = ignore location

DOWNLOAD/CALLBACK OPTIONS (ADDRESS 8175, 1104-1123, 1124-1143, 1713 & 1714)

Answer on Ring Number	ADDRESS 8175		

[Default = 015]

ANSWER ON RING NUMBER: Enter the number of rings before automatic pickup by the control panel when downloading from a computer (see Glossary in W11093). Initial value of 000 becomes 15 rings.

☞ 1. Enter digits only.

☞ 2. Valid entries are: 003-015. **NOTE:** Default is 15 Rings. Press to save.

Callback Telephone Number 1 (Digits 1-20)	ADDRESS 1104-1123 (DIGITS 1-20)																			
	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123

[Default = blank (•) for all digits 1-20]

Callback Telephone Number 2 (Digits 1-20)	ADDRESS 1124-1143 (DIGITS 1-20)																			
	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143

[Default = blank (•) for all digits 1-20]

CALLBACK TELEPHONE NUMBERS: Enter telephone numbers to be used when downloading from a computer.

☞ 1. Enter digits only.

☞ 2. Enter up to 20 digits from left to right. **NOTE:** Leave trailing boxes blank (•).

☞ 3. Valid entries are: 0-9, B = , C = , D = 3 sec. pause, E = Wait for dial tone, F = ignore location. Press to save.

Download Security Code	ADDRESS 1144-1146					
	1144	1145	1146			

[Default = blank (•) blank (•)]

DOWNLOAD SECURITY CODE: Enter up to 6 digits to be used for remote access when downloading from a computer.

☞ 1. Enter digits in address locations above.

☞ 2. Valid entries are: 0-9.

Note: Download Security Code must match the code entered in the PCD-Windows Quickloader Download Software.

Callback Telephone No. Select	ADDRESS 1713	

[Default = blank (•) blank (•)]

CALLBACK TELEPHONE NO. SELECT: Enter either "1" for Callback Telephone Number 1 or "2" for Callback Telephone Number 2.

☞ 1. Valid entries are: 1 or 2.

Auto Download ID No.	ADDRESS 1714	

Valid entries - 01-99

[Default = blank (•) blank (•)]

CS SUBSCRIBER ID NUMBERS (ADDRESS 1150-1285)

CS TELCO 1 SUBSCRIBER OPENING/CLOSING ID NUMBERS

AREA 1			
ADDRESS 1150-1153			
1150	1151	1152	1153

AREA 2			
ADDRESS 1154-1157			
1154	1155	1156	1157

AREA 3			
ADDRESS 1158-1161 (DIGITS 1-4)			
1158	1159	1160	1161

AREA 4			
ADDRESS 1162-1165 (DIGITS 1-4)			
1162	1163	1164	1165

AREA 5			
ADDRESS 1166-1169 (DIGITS 1-4)			
1166	1167	1168	1169

AREA 6			
ADDRESS 1170-1173 (DIGITS 1-4)			
1170	1171	1172	1173

AREA 7			
ADDRESS 1174-1177 (DIGITS 1-4)			
1174	1175	1176	1177

AREA 8			
ADDRESS 1178-1181 (DIGITS 1-4)			
1178	1179	1180	1181

CS TELCO 1 SUBSCRIBER EVENT ID NUMBERS

AREA 1			
ADDRESS 1182-1185 (DIGITS 1-4)			
1182	1183	1184	1185

AREA 2			
ADDRESS 1186-1189 (DIGITS 1-4)			
1186	1187	1188	1189

AREA 3			
ADDRESS 1190-1193 (DIGITS 1-4)			
1190	1191	1192	1193

AREA 4			
ADDRESS 1194-1197 (DIGITS 1-4)			
1194	1195	1196	1197

AREA 5			
ADDRESS 1198-1201 (DIGITS 1-4)			
1198	1199	1200	1201

AREA 6			
ADDRESS 1202-1205 (DIGITS 1-4)			
1202	1203	1204	1205

AREA 7			
ADDRESS 1206-1209 (DIGITS 1-4)			
1206	1207	1208	1209

AREA 8			
ADDRESS 1210-1213 (DIGITS 1-4)			
1210	1211	1212	1213

SYSTEM			
ADDRESS 1214-1217 (DIGITS 1-4)			
1214	1215	1216	1217

CS TELCO 2 SUBSCRIBER OPENING/CLOSING ID NUMBERS (BACKUP REPORTING)

AREA 1			
ADDRESS 1218-1221 (DIGITS 1-4)			
1218	1219	1220	1221

AREA 2			
ADDRESS 1222-1225 (DIGITS 1-4)			
1222	1223	1224	1225

AREA 3			
ADDRESS 1226-1229 (DIGITS 1-4)			
1226	1227	1228	1229

AREA 4			
ADDRESS 1230-1233 (DIGITS 1-4)			
1230	1231	1232	1233

AREA 5			
ADDRESS 1234-1237 (DIGITS 1-4)			
1234	1235	1236	1237

AREA 6			
ADDRESS 1238-1241 (DIGITS 1-4)			
1238	1239	1240	1241

AREA 7			
ADDRESS 1242-1245 (DIGITS 1-4)			
1242	1243	1244	1245

AREA 8			
ADDRESS 1246-1249 (DIGITS 1-4)			
1246	1247	1248	1249

CS TELCO 2 SUBSCRIBER EVENT ID NUMBERS (BACKUP REPORTING)

AREA 1			
ADDRESS 1250-1253 (DIGITS 1-4)			
1250	1251	1252	1253

AREA 2			
ADDRESS 1254-1257 (DIGITS 1-4)			
1254	1255	1256	1257

AREA 3			
ADDRESS 1258-1261 (DIGITS 1-4)			
1258	1259	1260	1261

AREA 4			
ADDRESS 1262-1265 (DIGITS 1-4)			
1262	1263	1264	1265

AREA 5			
ADDRESS 1266-1269 (DIGITS 1-4)			
1266	1267	1268	1269

AREA 6			
ADDRESS 1270-1273 (DIGITS 1-4)			
1270	1271	1272	1273

AREA 7			
ADDRESS 1274-1277 (DIGITS 1-4)			
1274	1275	1276	1277

AREA 8			
ADDRESS 1278-1281 (DIGITS 1-4)			
1278	1279	1280	1281

SYSTEM			
ADDRESS 1282-1285 (DIGITS 1-4)			
1282	1283	1284	1285

CS SUBSCRIBER ID NUMBERS (ADDRESS 1286-1353)

CS TELCO 3 SUBSCRIBER OPENING/CLOSING ID NUMBERS

AREA 1			
ADDRESS 1286-1289 (DIGITS 1-4)			
1286	1287	1288	1289

AREA 2			
ADDRESS 1290-1293 (DIGITS 1-4)			
1290	1291	1292	1293

AREA 3			
ADDRESS 1294-1297 (DIGITS 1-4)			
1294	1295	1296	1297

AREA 4			
ADDRESS 1298-1301 (DIGITS 1-4)			
1298	1299	1300	1301

AREA 5			
ADDRESS 1302-1305 (DIGITS 1-4)			
1302	1303	1304	1305

AREA 6			
ADDRESS 1306-1309 (DIGITS 1-4)			
1306	1307	1308	1309

AREA 7			
ADDRESS 1310-1313 (DIGITS 1-4)			
1310	1311	1312	1313

AREA 8			
ADDRESS 1314-1317 (DIGITS 1-4)			
1314	1315	1316	1317

CS TELCO 3 SUBSCRIBER EVENT ID NUMBERS

AREA 1			
ADDRESS 1318-1321 (DIGITS 1-4)			
1318	1319	1320	1321

AREA 2			
ADDRESS 1322-1325 (DIGITS 1-4)			
1322	1323	1324	1325

AREA 3			
ADDRESS 1326-1329 (DIGITS 1-4)			
1326	1327	1328	1329

AREA 4			
ADDRESS 1330-1333 (DIGITS 1-4)			
1330	1331	1332	1333

AREA 5			
ADDRESS 1334-1337 (DIGITS 1-4)			
1334	1335	1336	1337

AREA 6			
ADDRESS 1338-1341 (DIGITS 1-4)			
1338	1339	1340	1341

AREA 7			
ADDRESS 1342-1345 (DIGITS 1-4)			
1342	1343	1344	1345

AREA 8			
ADDRESS 1346-1349 (DIGITS 1-4)			
1346	1347	1348	1349



SYSTEM			
ADDRESS 1350-1353 (DIGITS 1-4)			
1350	1351	1352	1353

Default for CS Telco 1 Subscriber Event ID Number (Area 1) depends on Easy Menu Question "ACCOUNT #". [Default = blank (•) blank (•) blank (•) blank (•)] for all other ID Numbers.

CS TELCO SUBSCRIBER ID NUMBERS: Enter the Subscriber Opening/Closing and Event ID Numbers for any of the 3 CS Receivers.

 1. Enter 3 or 4 digits (depending on the CS receiver format) for each subscriber number from left to right.

NOTE: Leave trailing boxes blank (•).

 2. Valid entries are: 1-9, 0 and B-F. **NOTE:** A is not permitted. Press  to save.

TELCO OPTIONS AND TIMEOUTS (ADDRESS 1710-1712 & 1717)

Line Seize Time (sec.)	ADDRESS 1710		

[Default = 000]

Anti-Jam Time (sec.)	ADDRESS 1711		

[Default = 016]

Hang Up Redial Delay (sec.)	ADDRESS 1712		

[Default = 000]

1717	CS Telco Options		
Default			Option
OFF	1	Home Auto Panel Status Change to Serial Port at 9600 baud	
OFF	2	Home Auto Alarm Report to Serial Port if Programming Telco 1	
OFF	3	Home Auto Alarm Report to Serial Port if Programming Telco 3	
OFF	4	Enable Telco Line 1	
OFF	5	Enable Telco Line 2	
	6	Reserved	
	7	Reserved	
	8	Reserved	

CS AREA & SYSTEM REPORTING OPTIONS (ADDRESS 1715-1718)


CS Area Reporting Options	ADDRESS	AREAS 1 → 8							
		A1	A2	A3	A4	A5	A6	A7	A8
		1	2	3	4	5	6	7	8
DISABLE OPENING REPORTS	1715								
DISABLE CLOSING REPORTS	1716								

1718	CS System Report Options		
Default			Option
OFF	1	Backup Report on Telco 2	
OFF	2	Touch-tone Dialing Only *	
ON	3	Touch-tone Dialing w/Rotary Backup *	
OFF	4	Transmit "402" Opening/Closing Code	
OFF	5	Cancel Next Test Timer on any Report	
		6	Reserved
OFF		7	Disable Wait for Handshake
OFF		8	Handshake for Local Telemetry

CS AREA & SYSTEM REPORTING OPTIONS:

1. Select the desired option entering the option number (1-8) for each digit.
2. Enter corresponding option number in address location.

NOTE: Dark shaded data value box shows option not available.

3. Press  to save.

*** NOTE:** If neither TouchTone Dialing nor TouchTone w/Rotary Backup is selected, then system defaults automatically to Rotary Dialing. Leave blank (*) to select Rotary Dialing.

CS ZONE REPORTING CODES--ZONES 1-96 (ADDRESS 1440-1535)

ADDRESS 1440-1447							
ZONES REPORT CODE (CONTROL PANEL)							
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8
1440	1441	1442	1443	1444	1445	1446	1447

ADDRESS 1448-1451			
ZONES REPORT CODE (GROUP 1)			
ZONE 9	ZONE 10	ZONE 11	ZONE 12
1448	1449	1450	1451

ADDRESS 1452-1455			
ZONES REPORT CODE (GROUP 2)			
ZONE 13	ZONE 14	ZONE 15	ZONE 16
1452	1453	1454	1455

ADDRESS 1456-1459			
ZONES REPORT CODE (GROUP 3)			
ZONE 17	ZONE 18	ZONE 19	ZONE 20
1456	1457	1458	1459

ADDRESS 1460-1463			
ZONES REPORT CODE (GROUP 4)			
ZONE 21	ZONE 22	ZONE 23	ZONE 24
1460	1461	1462	1463

ADDRESS 1464-1467			
ZONES REPORT CODE (GROUP 5)			
ZONE 25	ZONE 26	ZONE 27	ZONE 28
1464	1465	1466	1467

ADDRESS 1468-1471			
ZONES REPORT CODE (GROUP 6)			
ZONE 29	ZONE 30	ZONE 31	ZONE 32
1468	1469	1470	1471

ADDRESS 1472-1475			
ZONES REPORT CODE (GROUP 7)			
ZONE 33	ZONE 34	ZONE 35	ZONE 36
1472	1473	1474	1475

ADDRESS 1476-1479			
ZONES REPORT CODE (GROUP 8)			
ZONE 37	ZONE 38	ZONE 39	ZONE 40
1476	1477	1478	1479

ADDRESS 1480-1483			
ZONES REPORT CODE (GROUP 9)			
ZONE 41	ZONE 42	ZONE 43	ZONE 44
1480	1481	1482	1483

ADDRESS 1484-1487			
ZONES REPORT CODE (GROUP 10)			
ZONE 45	ZONE 46	ZONE 47	ZONE 48
1484	1485	1486	1487

ADDRESS 1488-1491			
ZONES REPORT CODE (GROUP 11)			
ZONE 49	ZONE 50	ZONE 51	ZONE 52
1488	1489	1490	1491

ADDRESS 1492-1495			
ZONES REPORT CODE (GROUP 12)			
ZONE 53	ZONE 54	ZONE 55	ZONE 56
1492	1493	1494	1495

ADDRESS 1496-1499			
ZONES REPORT CODE (GROUP 13)			
ZONE 57	ZONE 58	ZONE 59	ZONE 60
1496	1497	1498	1499

ADDRESS 1500-1503			
ZONES REPORT CODE (GROUP 14)			
ZONE 61	ZONE 62	ZONE 63	ZONE 64
1500	1501	1502	1503

ADDRESS 1504-1507			
ZONES REPORT CODE (GROUP 15)			
ZONE 65	ZONE 66	ZONE 67	ZONE 68
1504	1505	1506	1507

ADDRESS 1508-1511			
ZONES REPORT CODE (GROUP 16)			
ZONE 69	ZONE 70	ZONE 71	ZONE 72
1508	1509	1510	1511

ADDRESS 1512-1515			
ZONES REPORT CODE (GROUP 17)			
ZONE 73	ZONE 74	ZONE 75	ZONE 76
1512	1513	1514	1515

ADDRESS 1516-1519			
ZONES REPORT CODE (GROUP 18)			
ZONE 77	ZONE 78	ZONE 79	ZONE 80
1516	1517	1518	1519

ADDRESS 1520-1523			
ZONES REPORT CODE (GROUP 19)			
ZONE 81	ZONE 82	ZONE 83	ZONE 84
1520	1521	1522	1523

ADDRESS 1524-1527			
ZONES REPORT CODE (GROUP 20)			
ZONE 85	ZONE 86	ZONE 87	ZONE 88
1524	1525	1526	1527

ADDRESS 1528-1531			
ZONES REPORT CODE (GROUP 21)			
ZONE 89	ZONE 90	ZONE 91	ZONE 92
1528	1529	1530	1531

ADDRESS 1532-1535			
ZONES REPORT CODE (GROUP 22)			
ZONE 93	ZONE 94	ZONE 95	ZONE 96
1532	1533	1534	1535

Default for Group Zone Report Codes depends on the Easy Menu Question "RCVR. FORMAT".

DATA ENTRIES		MODEM CODE
•	1	Fire Alarm
•	2	Panic Alarm
•	3	Burglary Alarm
•	4	Hold up Alarm
•	5	Fire Supervisory
•	6	Sprinkler Alarm (Waterflow)
•	7	Gas Alarm
•	8	Heat Alarm
•	9	Sprinkler Supervisory Alarm
•	0	Keypad Aux.
•	B	24 Hour Auxiliary Alarm
•	C	Burg Perimeter Alarm

DATA ENTRIES		MODEM CODE
•	D	Burg Interior Alarm
•	E	Burg Exit / Entry Alarm
•	F	Burg Zone Tamper Alarm
1	0	Fire Monitor AC Fail
1	1	Fire Monitor Batt Test Fail
1	2	Fire Monitor EZM Tamper Alarm
1	3	Fire Monitor Ground Fault Alarm
1	4	Smoke Alarm
1	5	Combustion Alarm
1	6	Pull Station Alarm
1	7	Duct Alarm
1	8	Flame Alarm

MODEM CODES determine the zone types reported for the following formats: SIA and ADEMCO Point ID.

1. Select the desired Modem Code for each zone from the tables shown at left. All Modem Code data entries are two digits in length.

2. Press  to save.

CS ZONE REPORTING CODES--ZONES 97-255 (ADDRESS 1536-1694)

ADDRESS 1536-1539			
ZONES REPORT CODE (GROUP 23)			
ZONE 97	ZONE 98	ZONE 99	ZONE 100
1536	1537	1538	1539

ADDRESS 1540-1543			
ZONES REPORT CODE (GROUP 24)			
ZONE 101	ZONE 102	ZONE 103	ZONE 104
1540	1541	1542	1543

ADDRESS 1544-1547			
ZONES REPORT CODE (GROUP 25)			
ZONE 105	ZONE 106	ZONE 107	ZONE 108
1544	1545	1546	1547

ADDRESS 1548-1551			
ZONES REPORT CODE (GROUP 26)			
ZONE 109	ZONE 110	ZONE 111	ZONE 112
1548	1549	1550	1551

ADDRESS 1552-1555			
ZONES REPORT CODE (GROUP 27)			
ZONE 113	ZONE 114	ZONE 115	ZONE 116
1552	1553	1554	1555

ADDRESS 1556-1559			
ZONES REPORT CODE (GROUP 28)			
ZONE 117	ZONE 118	ZONE 119	ZONE 120
1556	1557	1558	1559

ADDRESS 1560-1563			
ZONES REPORT CODE (GROUP 29)			
ZONE 121	ZONE 122	ZONE 123	ZONE 124
1560	1561	1562	1563

ADDRESS 1564-1567			
ZONES REPORT CODE (GROUP 30)			
ZONE 125	ZONE 126	ZONE 127	ZONE 128
1564	1565	1566	1567

ADDRESS 1568-1571			
ZONES REPORT CODE (GROUP 31)			
ZONE 129	ZONE 130	ZONE 131	ZONE 132
1568	1569	1570	1571

ADDRESS 1572-1575			
ZONES REPORT CODE (GROUP 32)			
ZONE 133	ZONE 134	ZONE 135	ZONE 136
1572	1573	1574	1575

ADDRESS 1576-1579			
ZONES REPORT CODE (GROUP 33)			
ZONE 137	ZONE 138	ZONE 139	ZONE 140
1576	1577	1578	1579

ADDRESS 1580-1583			
ZONES REPORT CODE (GROUP 34)			
ZONE 141	ZONE 142	ZONE 143	ZONE 144
1580	1581	1582	1583

ADDRESS 1584-1587			
ZONES REPORT CODE (GROUP 35)			
ZONE 145	ZONE 146	ZONE 147	ZONE 148
1584	1585	1586	1587

ADDRESS 1588-1591			
ZONES REPORT CODE (GROUP 36)			
ZONE 149	ZONE 150	ZONE 151	ZONE 152
1588	1589	1590	1591

ADDRESS 1592-1595			
ZONES REPORT CODE (GROUP 37)			
ZONE 153	ZONE 154	ZONE 155	ZONE 156
1592	1593	1594	1595

ADDRESS 1596-1599			
ZONES REPORT CODE (GROUP 38)			
ZONE 157	ZONE 158	ZONE 159	ZONE 160
1596	1597	1598	1599

ADDRESS 1600-1603			
ZONES REPORT CODE (GROUP 39)			
ZONE 161	ZONE 162	ZONE 163	ZONE 164
1600	1601	1602	1603

ADDRESS 1604-1607			
ZONES REPORT CODE (GROUP 40)			
ZONE 165	ZONE 166	ZONE 167	ZONE 168
1604	1605	1606	1607

ADDRESS 1608-1611			
ZONES REPORT CODE (GROUP 41)			
ZONE 169	ZONE 170	ZONE 171	ZONE 172
1608	1609	1610	1611

ADDRESS 1612-1615			
ZONES REPORT CODE (GROUP 42)			
ZONE 173	ZONE 174	ZONE 175	ZONE 176
1612	1613	1614	1615

ADDRESS 1616-1619			
ZONES REPORT CODE (GROUP 43)			
ZONE 177	ZONE 178	ZONE 179	ZONE 180
1616	1617	1618	1619

ADDRESS 1620-1623			
ZONES REPORT CODE (GROUP 44)			
ZONE 181	ZONE 182	ZONE 183	ZONE 184
1620	1621	1622	1623

ADDRESS 1624-1627			
ZONES REPORT CODE (GROUP 45)			
ZONE 185	ZONE 186	ZONE 187	ZONE 188
1624	1625	1626	1627

ADDRESS 1628-1631			
ZONES REPORT CODE (GROUP 46)			
ZONE 189	ZONE 190	ZONE 191	ZONE 192
1628	1629	1630	1631

ADDRESS 1632-1635			
ZONES REPORT CODE (GROUP 47)			
ZONE 193	ZONE 194	ZONE 195	ZONE 196
1632	1633	1634	1635

ADDRESS 1636-1639			
ZONES REPORT CODE (GROUP 48)			
ZONE 197	ZONE 198	ZONE 199	ZONE 200
1636	1637	1638	1639

ADDRESS 1640-1643			
ZONES REPORT CODE (GROUP 49)			
ZONE 201	ZONE 202	ZONE 203	ZONE 204
1640	1641	1642	1643

ADDRESS 1644-1647			
ZONES REPORT CODE (GROUP 50)			
ZONE 205	ZONE 206	ZONE 207	ZONE 208
1644	1645	1646	1647

ADDRESS 1648-1651			
ZONES REPORT CODE (GROUP 51)			
ZONE 209	ZONE 210	ZONE 211	ZONE 212
1648	1649	1650	1651

ADDRESS 1652-1655			
ZONES REPORT CODE (GROUP 52)			
ZONE 213	ZONE 214	ZONE 215	ZONE 216
1652	1653	1654	1655

ADDRESS 1656-1659			
ZONES REPORT CODE (GROUP 53)			
ZONE 217	ZONE 218	ZONE 219	ZONE 220
1656	1657	1658	1659

ADDRESS 1660-1663			
ZONES REPORT CODE (GROUP 54)			
ZONE 221	ZONE 222	ZONE 223	ZONE 224
1660	1661	1662	1663

ADDRESS 1664-1667			
ZONES REPORT CODE (GROUP 55)			
ZONE 225	ZONE 226	ZONE 227	ZONE 228
1664	1665	1666	1667

ADDRESS 1668-1671			
ZONES REPORT CODE (GROUP 56)			
ZONE 229	ZONE 230	ZONE 231	ZONE 232
1668	1669	1670	1671

ADDRESS 1672-1675			
ZONES REPORT CODE (GROUP 57)			
ZONE 233	ZONE 234	ZONE 235	ZONE 236
1672	1673	1674	1675

ADDRESS 1676-1679			
ZONES REPORT CODE (GROUP 58)			
ZONE 237	ZONE 238	ZONE 239	ZONE 240
1676	1677	1678	1679

ADDRESS 1680-1683			
ZONES REPORT CODE (GROUP 59)			
ZONE 241	ZONE 242	ZONE 243	ZONE 244
1680	1681	1682	1683

ADDRESS 1684-1687			
ZONES REPORT CODE (GROUP 60)			
ZONE 245	ZONE 246	ZONE 247	ZONE 248
1684	1685	1686	1687

ADDRESS 1688-1691			
ZONES REPORT CODE (GROUP 61)			
ZONE 249	ZONE 250	ZONE 251	ZONE 252
1688	1689	1690	1691

ADDRESS 1692-1694			
ZONES REPORT CODE (GROUP 62)			
ZONE 253	ZONE 254	ZONE 255	
1692	1693	1694	



CS USER REPORTING CODES--USERS 1-96 (ADDRESS 1725-1811)

Enable Users to Report	ADDR	USERS 1 → 8								ADDR	USERS 9 → 16							
		U1	U2	U3	U4	U5	U6	U7	U8		U9	U10	U11	U12	U13	U14	U15	U16
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1725									1726								
User Closing Telco 1	1750									1751								
User Opening Telco 3	1775									1776								
User Closing Telco 3	1800									1801								

Enable Users to Report	ADDR	USERS 17 → 24								ADDR	USERS 25 → 32							
		U17	U18	U19	U20 4	U21	U22	U23	U24		U25	U26	U27	U28	U29	U30	U31	U32
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1727									1728								
User Closing Telco 1	1752									1753								
User Opening Telco 3	1777									1778								
User Closing Telco 3	1802									1803								

Enable Users to Report	ADDR	USERS 33 → 40								ADDR	USERS 41 → 48							
		U33	U34	U35	U36	U37	U38	U39	U40		U41	U42	U43	U44	U45	U46	U47	U48
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1729									1730								
User Closing Telco 1	1754									1755								
User Opening Telco 3	1779									1780								
User Closing Telco 3	1804									1805								

Enable Users to Report	ADDR	USERS 49 → 56								ADDR	USERS 57 → 64							
		U49	U50	U51	U52	U52	U54	U55	U56		U57	U58	U59	U60	U61	U62	U63	U64
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1731									1732								
User Closing Telco 1	1756									1757								
User Opening Telco 3	1781									1782								
User Closing Telco 3	1806									1807								

Enable Users to Report	ADDR	USERS 65 → 72								ADDR	USERS 73 → 80							
		U65	U66	U67	U68	U68	U70	U71	U72		U73	U74	U75	U76	U77	U78	U79	U80
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1733									1734								
User Closing Telco 1	1758									1759								
User Opening Telco 3	1783									1784								
User Closing Telco 3	1808									1809								

Enable Users to Report	ADDR	USERS 81 → 88								ADDR	USERS 89 → 96							
		U81	U82	U83	U84	U85	U86	U87	U88		U89	U90	U91	U92	U93	U94	U95	U96
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1735									1736								
User Closing Telco 1	1760									1761								
User Opening Telco 3	1785									1786								
User Closing Telco 3	1810									1811								

NOTE: These opening events will report as the user number shown. Also, Keyfobs 1-16 (see Easy Menu Program Driven Mode) will report as Users 180-195, respectively.

CS USER REPORTING CODES--USERS 97-195 (ADDRESS 1737-1824)

Enable Users to Report	ADDR	USERS 97 → 104								ADDR	USERS 105 → 112							
		U97	U98	U99	U100	U101	U102	U103	U104		U105	U106	U107	U108	U109	U110	U111	U112
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1737									1738								
User Closing Telco 1	1762									1763								
User Opening Telco 3	1787									1788								
User Closing Telco 3	1812									1813								

Enable Users to Report	ADDR	USERS 113 → 120								ADDR	USERS 121 → 128							
		U113	U114	U115	U116	U117	U118	U119	U120		U121	U122	U123	U124	U125	U126	U127	U128
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1739									1740								
User Closing Telco 1	1764									1765								
User Opening Telco 3	1789									1790								
User Closing Telco 3	1814									1815								

Enable Users to Report	ADDR	USERS 129 → 136								ADDR	USERS 137 → 144							
		U129	U130	U131	U132	U133	U134	U135	U136		U137	U138	U139	U140	U141	U142	U143	U144
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1741									1742								
User Closing Telco 1	1766									1767								
User Opening Telco 3	1791									1792								
User Closing Telco 3	1816									1817								

Enable Users to Report	ADDR	USERS 145 → 152								ADDR	USERS 153 → 160							
		U145	U146	U147	U148	U149	U150	U151	U152		U153	U154	U155	U156	U157	U158	U159	U160
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1743									1744								
User Closing Telco 1	1768									1769								
User Opening Telco 3	1793									1794								
User Closing Telco 3	1818									1819								

Enable Users to Report	ADDR	USERS 161 → 168								ADDR	USERS 169 → 176							
		U161	U162	U163	U164	U165	U166	U167	U168		U169	U170	U171	U172	U173	U174	U175	U176
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1745									1746								
User Closing Telco 1	1770									1771								
User Opening Telco 3	1795									1796								
User Closing Telco 3	1820									1821								

Enable Users to Report	ADDR	USERS 177 → 184								ADDR	USERS 185 → 192							
		U177	U178	U179	U180	U181	U182	U183	U184		U185	U186	U187	U188	U189	U190	U191	U192
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
User Opening Telco 1	1747									1748								
User Closing Telco 1	1772									1773								
User Opening Telco 3	1797									1798								
User Closing Telco 3	1822									1823								

Enable Users to Report	ADDR	USERS 193 → 200							
		U193	U194	U195	U196	U197	U198	U199	U200
		1	2	3	4	5	6	7	8
User Opening Telco 1	1749								
User Closing Telco 1	1774								
User Opening Telco 3	1799								
User Closing Telco 3	1824								

NOTE: These opening events will report as the user number shown. Also, Keyfobs 1-16 (see **Easy Menu Program Driven Mode**) will report as Users 180-195, respectively.

continued in Volume 2 (WI1673-2)



NOTES

NOTES



NAPCO LIMITED WARRANTY

NAPCO SECURITY SYSTEMS, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for *thirty-six months* following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

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.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF NAPCO.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. NAPCO neither assumes, nor authorizes any other person purporting to act on its

behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

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NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage.

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