

XL - 4

LCD Keypad Programming Manual



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1. INTRODUCTION

The XL-4 control panel can be completely programmable through the LCD keypad. The panel is shipped from the factory with preprogrammed default characteristics which will suit many typical installations. These default values are displayed in the section of this manual titled System Defaults.

Installer programming through an LCD keypad can be used to setup the panel during the initial installation or to modify programmable values at a later date. In addition, the XL-4 can be programmed through the EZ-MATE PC Based Downloader.

System keypad programming is accomplished through a series of questions presented on the LCD keypad display. These displays contain easy to understand, simple English language prompts. The programming questions are described in detail in the LCD Keypad Programming Questions section of this manual.

Keypad programming is reserved for installer use only and is secured by the installer code. Functions such as user code modification can be performed through keypad entry without the need to enter the keypad programming mode.

If your installation includes only LED keypads, and you want to perform keypad programming, then an LCD keypad can temporarily be connected to program the unit through the keypad.

This manual covers the models XL-4 and XL-4B control panels. The XL-4 is the Household Burglary and Fire version of the control panel while the XL-4B is the Commercial Burglary version of the control panel.

NOTE: Keypad programming can only be performed while the system is in a disarmed state.
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Failure to program the control panel as described for UL Listed applications, is a violation of the Listing Mark of Underwriters Laboratories.

2. SYSTEM OVERVIEW

The XL-4 system can be setup in a partitioned configuration. Partitioning allows the panel to look like as many as 8 different protected locations to the Central Station. Each partition will be assigned zones, users and keypads. The account numbers transmitted for each partition are definable. Partitions can be setup to protect different functional areas of the same location (example, office area vs. warehouse) or different premises within close proximity (example, shopping center or multi family complex).

The XL-4's strong point is its flexibility. Zones, keypads, users, keypad functions, relay outputs, CS monitoring and output triggers can be configured to satisfy a myriad of security and monitoring applications. Unfortunately, flexibility breeds complexity; and, unless a few basic things are understood, its programming can be confusing.

First, the XL-4 comes pre-programmed from the factory. The DEFAULT program is listed at the end of the manual. You should be familiar with this program so that each new program can be thought of as simply modifying the defaults. There are numerous programming options but for standard applications, only a few of them need to be changed. A Standard System Programming Summary is listed at the end of this manual. For example, by modifying only one option (question #016 must be NO) you have a local, 7 burglary zone, 1 fire zone system with exit/entry, interior follower and perimeter protection. To add monitoring to this system you need to modify only two or three defaults.

Second, sometimes the answer to many questions simply are not important. For example, many CS reporting codes can be ignored if their respective question which controls its reporting path is NONE. As another example, suppose a zone's type is not selected to be an Exit/Entry (programming question #134). Then, the Entry Delay selection (programming question #156) has no bearing on that zone's operation.

Last, several system characteristics should be understood. The following definitions should help in programming.

2.1. PARTITIONS

As mentioned before, the XL-4 can be partitioned. This allows it to look like 8 different systems. Partitioning is enabled by assigning zones, keypads and users to each partition (questions #146, #171 and #028, respectively). Each partition can have its own account number or they can all share the same account number for CS monitoring purposes (questions #173 and #174). Each partition is independently armed and disarmed. In addition, they can all be armed or disarmed at the same time by enabling two options (programming questions #051 and #059).

2.2. ZONE

Any of the zones (1 - 72) can be assigned to any partition to suit a particular installation's needs. For example, a typical installation might be an 8 partition, 72 zone system, where each partition has 9 zones. The only limitation is that each zone can be assigned to one partition (question #146). Each can be programmed for different zone types: Instant, Exit/Entry, Interior EE Follower, Interior, Fire - Smoke, Fire - Pull Station or Keyswitch (programming question #134).

A zone can be programmed to provide a different response depending on whether it is opened or shorted. Each zone has a group of programming options called ALARM ON OPEN, ALARM ON SHORT, TROUBLE ON OPEN and TROUBLE ON SHORT (programming question #151 through #154, respectively). With these a zone can be enabled for an alarm response that is distinct from a trouble response. In general, trouble can occur only when the panel is disarmed unless 24 Hour Trouble is enabled or that zone. Similarly, an alarm can occur only when the panel is armed, unless 24 Hour Alarm is enabled for that zone. In addition, a zone can be connected without the EOL resistor by simply selecting its particular loop type. For example, for a Normally Open Alarm Loop: ALARM ON OPEN = NO, ALARM ON SHORT = YES, and for a Normally Closed Alarm Loop: ALARM ON OPEN = YES, ALARM ON SHORT = NO. When the alarm conditions are met, the panel responds according to the ALARM TYPE assigned to that zone (programming question #149). Similarly, when the trouble conditions are met, the panel responds according to the TROUBLE TYPE assigned to that zone (programming question #150).

An ALARM TYPE is a list of options (programming questions #105 through #119) that the panel will perform when a zone which has been assigned that Alarm Type trips into alarm. There are 16 available Alarm Types. The options controlled by the Alarm Type include Relay 1 output, Relay 2 output, Trigger outputs, CS Reporting Path, Keypad Buzzer and Keypad Display. For example, the tripping of a zone into alarm will only make the bell ring if the RELAY 1 option is set in its Alarm Type; it will only report to the Central Station if the CS REPORTING PATH option is set in its Alarm Type; it will only display on the keypad if the DISPLAY ON ALARM option is set in its Alarm Type. In general, zones can share the an Alarm Type if their alarm responses are the same. Initially the DEFAULT ALARM TYPES can be used specifying type 01 for a Fire Zone, type 02 for an Audible Emergency Zone and type 03 for a Burglary Zone. As the need arises, Alarm Types can be modified to suit a particular need. The most common reason to modify an Alarm Type is to set its CS reporting code for double digit reporting (ex: 4 X 2) to the

CS. In this case, the CS CODE in the Alarm Type is the first digit and the CS CODE in the Zone Attributes is the second digit.

TROUBLE TYPES work just like the Alarm Types previously explained but with regard to trouble conditions. There are 8 available Trouble Types. It is important to realize that each of the system troubles: LOW BATTERY, SYSTEM ERROR and AC FAILURE are assigned a Trouble Type to define what should happen when that trouble occurs. For example, LOW BATTERY will be reported to the CS if the CS REPORTING PATH option is set in its Trouble Type.

A zone can be defined by both alarm and trouble conditions. The most common use of this dual state reporting is a Fire Zone, which when shorted must ring the bell and send an alarm code, but when opened must ring the keypad buzzer and send a trouble code. Any specific panel response can be performed by selecting the appropriate options in the ZONE ATTRIBUTES, ALARM TYPES and/or TROUBLE TYPES options for any zone.

2.3. KEYPADS

The XL-4 supports up to 16 keypads consisting of 8 LED and LCD keypads. Their address will identify them to the control panel. All LED keypads must have their own unique address (1 - 8) and all LCD keypads must have their own unique address (9 - 16). Each keypad that is connected must be addressed and its unique address must be assigned to a single partition (programming question #171). Any partition can have more than one keypad assigned to it. The only limitation is that a keypad shows the status of the partition to which it is assigned. However, a keypad can temporarily show other partitions' status through the multipartition mode (programming question #051).

NOTE: The factory default settings enable only the first LCD keypad in the system. Therefore, only a single LCD keypad addressed as #9 should be connected for first time power up of the system. Additional keypads must be first enabled in programming prior to connecting them.

2.4. USERS

Unlike zones and keypads, each of the 64 users can be assigned to multiple partitions (programming question #028). Also, users can be enabled to send Opening/Closing signals to the CS by partition (programming question #029). Once enabled, the user's functions (arming, disarming, bypass, etc.) in the partition depends on its AUTHORIZATION LEVEL (programming question #026). Depending on its authorization level some users can define, modify or delete users through the keypad. To prevent users from performing modifications across partitions each of the users contain a MASTER PARTITION value (programming question #030), which means that users with the proper authorization level can modify only those users having the same master partition number.

In addition, a feature known as SUPER USER allows all users with an authorization level of 1 to be able to alter user partition assignments within all the partitions of the system (programming question #058). Similarly, all users with an authorization level of 2 are able to alter user partition assignments but only within their own assigned partitions. However, USER #001 is ONLY allowed to have its partition assignment altered by itself.

NOTE: In a partitioned system, caution must be taken when assigning users accross partitions. If numerous users are enabled in multiple partitions, then an authorization level 1, 2 or 3 user can only modify another user of equal or lesser authorization level (ex: level 1 is the highest) having the same master partition number, unless the current partition is the same as the master partition of the user to be modified. If assigned in all the partitions, then a modification can be done IN ANY PARTITION by a user of authorization level 1, 2 or 3 to itself and to another user of equal or lesser authorization level having the same master partition value. USER #001 IS ONLY ALLOWED TO BE MODIFIED BY ITSELF; ITS ACCESS CODE MUST NEVER BE MISPLACED AND ITS AUTHORIZATION LEVEL MUST BE SELECTED ONLY AS 1, 2 OR 3. IN ORDER TO RESET USER #001 A COMPLETE SYSTEM DEFAULT RESET MUST BE DONE. The example in the next table illustrates this better.

USER NUMBER	USER AUTH. LEVEL	USER MASTER PART.	USER PART. ASSIGNMENT
001	1	1	YYYNNNNN
002	4	1	YYYNNNNN
003	2	2	YYYNNNNN
004	4	2	YYYNNNNN
005	3	3	YYYNNNNN
006	4	3	YYYNNNNN

NOTE: Only users with an authorization level of 1, 2 or 3 can modify other users.

PARTITION #1: USER #001 can modify itself and user #002; USER #003 can modify itself and user #004; USER #005 can modify itself and user #006.

PARTITION #2: USER #001 can modify itself and users #002, #003 and #004; USER #003 can modify itself and user #004; USER #005 can modify itself and users #004 and #006.

PARTITION #3: USER #001 can modify itself and users #002, #005 and #006; USER #003 can modify itself and users #004, #005 and #006; USER #005 can modify itself and user #006.

3. PROGRAMMING MODE - LCD KEYPAD

3.1. ENTRY INTO KEYPAD PROGRAMMING MODE

LCD Keypad programming can be entered as follows:

[CODE] [*] [INSTALLER CODE] [1]

Where:

[CODE]	is the CODE key on the keypad
[*]	Is the Asterisk key on the keypad
[INSTALLER CODE]	is the six digit installer code reserved for entry to installer functions such as keypad programming.
[1]	The digit 1 on the keypad

During keypad programming the function keys perform different functions. See section 3 of this manual for further information.

3.2. EXIT FROM PROGRAMMING MODE

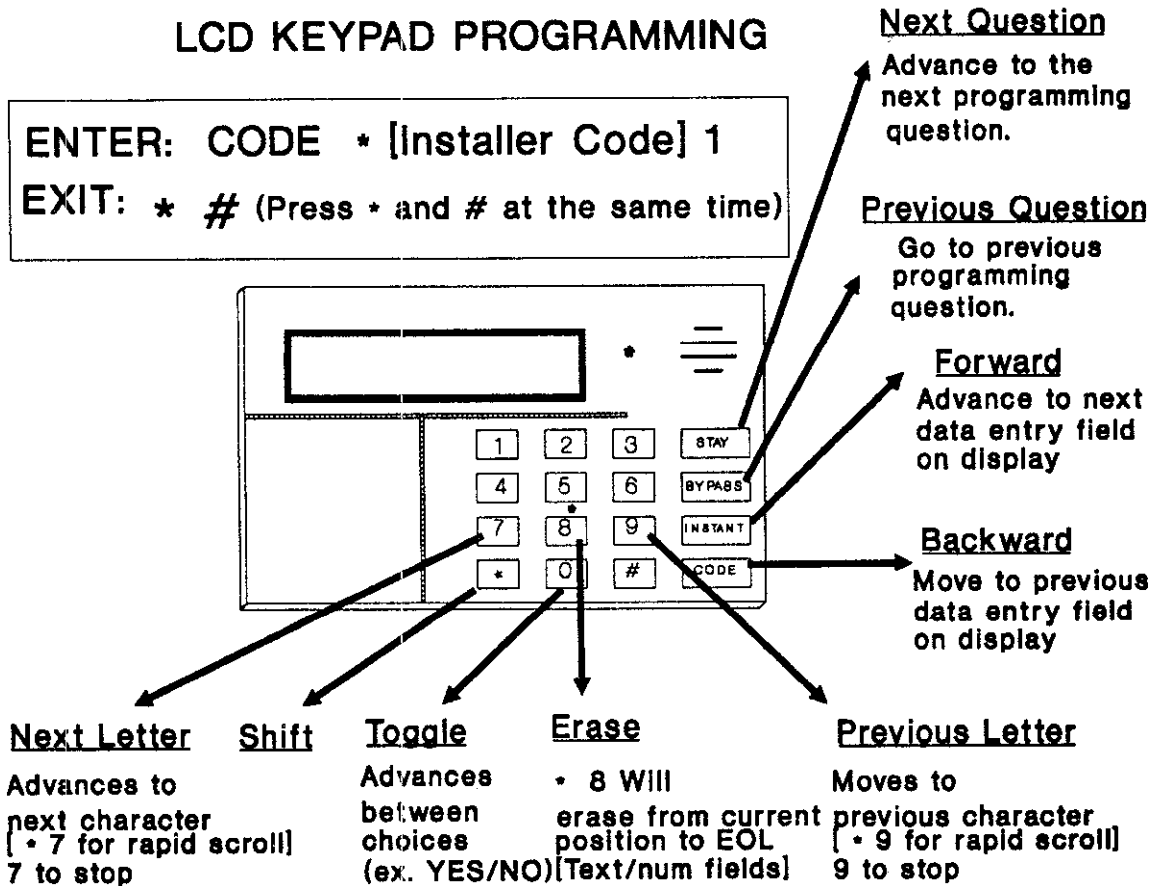
After performing the desired system programming, the session can be terminated as follows:

SHIFT + ABORT (Also known as the * and # keys)

Press the **SHIFT** and **ABORT** keys (* and #) at the same time. The control panel will exit from the programming state and return to normal operation.

4. FUNCTION KEYS

When the XL-4 panel has been placed into programming mode the keys have a dedicated meaning. The keystrokes used during keypad programming are summarized below:



NEXT QUESTION [STAY KEY]

This function key processes the information entered on the display and advances to the next programming display. The next display depends on the response made to the current question. The questions have been organized to skip questions which are not necessary based on previous responses. For example, if a secondary receiver telephone number is not defined, then the related questions dealing with the secondary number will be skipped. Therefore, do not be alarmed if the NEXT QUESTION key does not always obtain the next sequential question number.

PREVIOUS QUESTION [BYPASS KEY]

The PREVIOUS QUESTION key will sequence the display backwards to the previous question of the programming sequence. This key can be used scroll backwards through the questions.

FORWARD [INSTANT KEY]

Advances the cursor position toward the right within the second line of the display. The forward key does not change information. If the question type a numerical or text then the FORWARD key will advance the cursor to the right by one position. If the display contains multiple Yes/No questions then the forward key will move the cursor to the next slot on the display. If the display contains text, then the forward key will advance to the next character.

BACKWARD [CODE KEY]

Similar to the forward key except that the cursor will be moved to the previous position.

NEXT LETTER [7 KEY]

The NEXT LETTER key is used only for text questions. Text questions request entry of characters. This includes the letters A-Z, numbers 0-9, space character as well as the other characters that would normally be seen on a typewriter or computer keyboard. Entry of text information is accomplished through use of the next letter key. The cursor must be positioned to the desired position and the next letter key will advance the display through the character set one character at a time. When the desired character has been reached hit the FORWARD key to advance the cursor to the next position. When all the desired entries have been completed for the text field hit the NEXT QUESTION key.

In addition to the NEXT LETTER key advancing one character at a time, depression of the SHIFT (*) key followed by the NEXT LETTER (7) key will advance through the character sequence more rapidly. When the desired character has been reached depress the NEXT LETTER (7) key again to stop the display.

The character sequence includes the letters A - Z along with the following:

A - Z { | } space ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; = ? @

Alphabetic characters can be entered as lower case or upper case values.

ERASE FLD [8 KEY]

The ERASE FIELD function is performed by depressing the SHIFT key (labeled * in normal operation) followed by the ERASE FIELD key (normally the 8 key). This will blank out the entire field from the current cursor position to the end of the field and applies only to numerical and text fields only.

NOTE: After the SHIFT key is depressed, the Ready light will be lit.

PREV LETTER [9 KEY]

The PREVIOUS LETTER is similar to the NEXT LETTER key, however scrolls backwards through the character set for text entry. The character sequence begins with the last letter accessed by the system.

In addition to the PREVIOUS LETTER key advancing one character at a time, depression of the SHIFT key followed by the 9 key will advance through the character sequence rapidly. This will make one complete pass through the character set. When the desired character has been reached depress the 9 key to stop the display.

TOGGLE [0 KEY]

The TOGGLE key is used for YES/NO questions and multiple choice displays. The toggle key will advance the second line of the display through the available choices for the question. For example in a YES/NO question the TOGGLE key will change the answer from YES to NO if the initial value was YES. The second line of the LCD display shows the current value. The toggle key advances the display through the available choices for the programming question. After the last available choice has been reached, the display will return to the first choice.

When the desired choice has been obtained, the NEXT QUESTION key will finalize the entry and advance to the next display.

5. DISPLAY FORMAT

Installer programming of the XL-4 is performed through a series of questions appearing in the two line display area of the LCD keypad.

The display area of the LCD keypad has the following format during Installer Programming;

NNN	TTTTTTTTTTTT
VVVVVVVVVVVVVVVV	

Where:

NNN Question number (000-255.)

The programming questions are assigned sequentially and are grouped together based on the type of question. In addition any programming question can be accessed directly using this sequence number. Some of the questions contain multiple displays to define all of the attributes. For example, there are multiple displays required to define the characteristics of all of the zones.

TTTTTTTTTTTT Question Text

Up to twelve characters to describe the question being asked. Due to space limitations some question titles are abbreviated. If the question deals with an area containing multiple offsets such as zones or users then the display will contain a reference to the particular value being defined (example Z063 for zone #63). For a complete explanation of each programming question consult section LCD Keypad Programming section of this manual.

VVVVVVVVVVVVVVVV Value

Displays the current contents of the question. This information can be viewed or modified. The questions consist of the following types; Multiple Choice, Yes/No, Numerical, Hexadecimal, or Text.

If the question contains more than sixteen characters then a second display will appear when inputting a value greater than sixteen characters. This secondary display contains a left arrow in the last position of the first line indicating continuation of the first display. This relates primarily to the telephone numbers which can contain up to 32 digits.

6. QUESTION SELECTION MODES

The keypad programming questions can be obtained either sequentially or directly as follows:

NOTE: In order to use either question selection method you must already be in the Installer Keypad Programming mode.

6.1. SEQUENTIAL METHOD

A fast method to scroll through the sequence of programming questions involves the successive use of the NEXT QUESTION (or STAY) key. This will advance forward through the programming questions in sequential order without changing any of the current values. The questions presented will depend on the Installer Programming level and the values in previous questions.

FORMAT:

NEXT Q. NEXT Q. NEXT Q

6.2. DIRECT METHOD

Using the direct method any specific programming question can be obtained through the question sequence number. This method provides instant access to any programming question through the three digit sequence number. A master listing containing all the programming questions can be found later in this manual.

FORMAT:

SHIFT NEXT QUESTION NNN

where:

SHIFT NEXT QUESTION is the depression of the SHIFT [*] key followed by NEXT QUESTION [STAY] function key.

NNN is the three digit sequence number of the question desired.

NOTE: The system must already be in the Programming mode.

After depressing the SHIFT key followed by the NEXT QUESTION key the following display will appear:

ENTER QUESTION #

EXAMPLE: SHIFT NEXT QUESTION 003

Press the NEXT QUESTION key followed by 0 0 3. This will obtain question number 03 as follows;

003 CS#1 PHONE#

In this particular example, the primary Central Station telephone number question was obtained. At this point, the contents of this field can be modified or another question can be obtained. If the question requested belongs to an area that contains multiple offsets then the direct access method will first obtain the selection display for that group. Specifically, this applies to the following groups:

USERS
ALARM TYPES
TROUBLE TYPES
ZONE DEFINITIONS
KEYPAD CONDITIONS
PARTITION KEYPAD DEFINITION

For example, if requesting the Zone CS Code question, the Zone selection question will first appear. After entry of the desired zone, the first question will appear for that zone.

7. PROGRAMMING QUESTIONS OVERVIEW

The LCD keypad programming questions have been organized into the following functional categories:

CENTRAL STATION COMMUNICATIONS [Questions 001 - 024]

This area defines the telephone numbers and dialing options for the control panel to communicate with a Central Station and the remote programming devices.

USER DEFINITION [Questions 025 - 030]

Defines the characteristics of the users maintained within the panel. This includes the authorization levels, CS reporting codes and partition assignment.

SYSTEM ATTRIBUTES [Questions 031 - 064]

Defines the values which are common to all zones and partitions within the control panel.

SYSTEM TIMING [Questions 065 - 080]

Contains the various programmable timing features (delays and time-outs).

SYSTEM FUNCTION CODES [Questions 081 - 104]

System function codes specify the codes transmitted to the Central Station for various conditions.

ALARM TYPES [Questions 105 - 119]

Alarm types are used to define the reporting codes and characteristics for different alarm conditions. When setting up a zone an alarm type will be necessary. The system contains up to sixteen alarm types.

TROUBLE TYPES [Questions 120 - 132]

Trouble types are used to define the reporting codes and characteristics for different trouble conditions. When setting up a zone a trouble type will be requested. The system contains up to eight trouble types.

ZONE DEFINITION [Questions 133 - 163]

The XL-4 contains eight to sixteen hardwired zones and up to 64 multiplex zones. The zones are fully programmable and the zone definitions are used to customize the zones to suit your needs.

KEYPAD CONDITIONS [Questions 164 - 169]

In addition to the hardwired zones, conditions can be activated through the keypad for situations such as FIRE, PANIC, MEDICAL, DURESS. This section asks the questions to tailor these conditions to your installation.

PARTITION ASSIGNMENT [Questions 170 - 174]

The XL-4 panel can be configured to look like multiple systems to the Central Stations. In this section defines the keypads that are assigned to each partition.

AUTO-DUMP PARAMETERS [Questions 175 - 185]

One feature of the XL-4 is the capability to transmit a log of system activity to a remote serial printer. These questions define the frequency of this transmission (daily, weekly, monthly) along with text to identify each account.

8. LCD KEYPAD PROGRAMMING QUESTIONS

This section describes XL-4 keypad programming and applies to both the XL-4 and XL-4B systems. The sample displays in this section show the format of the keypad programming questions. The values that are displayed are meant to demonstrate the type of input for each question rather than the default values. The factory default values for the XL-4 programming questions are shown in the appropriate section of this manual. **NOTE: Keypad programming can only be performed through an LCD keypad.**

8.1 CS COMMUNICATIONS

The Central Station Communications section defines the telephone numbers and dialing options for the XL-4 panel to communicate with a Central Station receiver and the remote programming devices.

CALLBACK TELEPHONE NUMBER

001 CALLBACK #

The XL-4 can be programmed and operated remotely from the Alarm Company location. This optional two way capability includes remote programming (uploading, downloading) and remote commands.

All remote activations are performed over a dedicated telephone line at the Alarm Company known as the Callback Number. This number should be common to all XL-4 panels installed or maintained by the same company. The callback capability is only an **option** and is not required in order to perform remote operations. Enter the Callback Number which will represent the fixed telephone number dedicated to your EZ-MATE PC Downloader within your alarm company.

The Callback number is an additional security feature which prevents unauthorized stations from accessing your control panels. If the Callback number is left blank then the panel will not call back the Alarm Company location during remote communications, allowing remote communication with the alarm company after validation of the Central Station ID code.

NOTE: The Callback telephone number should not be confused with the Central Station Receiver numbers. In addition, if the device will never be operated remotely, then the Callback Number should be left blank.

TELEPHONE NUMBER ENTRY

All phone number should be entered with any area codes or access characters needed to dial the telephone number from the control panel location. The valid digits for all phone numbers are 0-9, B, C, or D. The phone digits are entered as follows:

0-9	Actual telephone number digits
B (Shift 2)	*
C (Shift 3)	3 Second delay
D (Shift 4)	#

NOTE: The SHIFT key is the * (asterisk) shift key on the keypad as shown on the programming overlay.

Do not enter blanks or separators between the digits as this will be interpreted as the end of the telephone number. A totally blank phone number indicates that the phone number does not exist. For example, a blank CS#2 Phone number indicates that the panel does not communicate with the secondary Central Station.

To blank out an existing telephone number move the cursor to the first position and depress the SHIFT key (*) followed by the 8 key. To advance the next programming question press the NEXT QUESTION (or STAY) key. Telephone numbers within the XL-4 panel can contain up to 32 digits. Since the LCD display contains only sixteen characters a secondary display will automatically appear if a phone number greater than 16 characters is entered. This secondary display will be denoted with a small left arrow in the last position of the first line.

DUMP TELEPHONE NUMBER

002 DUMP PH. #

The XL-4 stores the last 128 events that have occurred. This system log information can be viewed by an Installer through an LCD keypad, remotely read by the EZ-MATE PC Software, or dumped automatically to a remote serial printer. The remote printer can be located at the Alarm Company, Central Station or other remote location. The DUMP telephone number defines the telephone number of this remote printer and modem and can vary from account to account.

In addition the system log can be output to a local serial printer. In order to utilize the local serial printer leave the DUMP phone number blank (enter * 8 to clear a phone number). **NOTE:** The local printer function requires use of the Serial Printer Interface module (model 7130).

If the panel should not transmit system log information then leave this question blank. The DUMP telephone number can contain up to 32 digits. Additional information for the Auto Dump function is defined in questions 175-185. **The Auto Dump feature requires a modem or module 7130 and serial printer capable of 300 baud operation.**

PRIMARY CENTRAL STATION RECEIVER

003 CS1 PH. #
234

The XL-4 can transmit digital alarm signals to two separate Central Station numbers. Enter the complete telephone number of the primary Central Station receiver line. The telephone number should be entered with the correct area code or access control digits necessary to dial the Central Station receiver from the panel location.

The primary CS receiver (CS#1) telephone number can contain up to 32 digits. If the panel does not communicate with the primary Central Station or the panel is being used in a local only application (see question 016) then leave this question blank.

To erase an entire existing telephone number, position the cursor at the first digit and depress the SHIFT key (*) followed by the 8 key.

See the Callback Number for a full explanation of telephone number entry.

CS#1 RECEIVER TYPE

004 TYPE CSI
FBI SUPER 2300HZ

The XL-4 panel transmits in a variety of DTMF and pulse formats to the Central Station receiver. This question selects the type of CS transmission made to CS#1. The valid options are:

FBI SUPER 1400HZ	FBI Superfast Format 1400 HZ Handshake
FBI SUPER 2300HZ	FBI Superfast Format 2300 HZ Handshake
ADEMCO Point ID	ADEMCO Point ID format
4x2 Express	ADEMCO 4x2 Express format
BFSK 2300	RADIONICS BFSK 2300HZ handshake
10P 1400 STAND	10 Pulses Per Second, 1400 Hz handshake, Standard Format
10P 2300 STAND	10 Pulses Per Second, 2300 Hz handshake, Standard Format
10P 1400 ACC +2	10 Pulses Per Second, 1400 Hz handshake, 3x2 or 4x2 Format
10P 2300 ACC +2	10 Pulses Per Second, 2300 Hz handshake, 3x2 or 4x2 Format
10P 1400 EXTEND	10 Pulses Per Second, 1400 Hz handshake, Extended Format
10P 2300 EXTEND	10 Pulses Per Second, 2300 Hz handshake, Extended Format
10P 1400 PART EX	10 Pulses Per Second, 1400 Hz handshake, Partial Extended
10P 2300 PART EX	10 Pulses Per Second, 2300 Hz handshake, Partial Extended
20P 1400 STAND	20 Pulses Per Second, 1400 Hz handshake, Standard Format

20P 2300 STAND	20 Pulses Per Second, 2300 Hz handshake, Standard Format
20P 1400 ACC +2	20 Pulses Per Second, 1400 Hz handshake, 3x2 or 4x2 Format
20P 2300 ACC +2	20 Pulses Per Second, 2300 Hz handshake, 3x2 or 4x2 Format
20P 1400 EXTEND	20 Pulses Per Second, 1400 Hz handshake, Extended Format
20P 2300 EXTEND	20 Pulses Per Second, 2300 Hz handshake, Extended Format
20P 1400 PART EX	20 Pulses Per Second, 1400 Hz handshake, Partial Extended
20P 2300 PART EX	20 Pulses Per Second, 2300 Hz handshake, Partial Extended
40P 1400 STAND	40 Pulses Per Second, 1400 Hz handshake, Standard Format
40P 2300 STAND	40 Pulses Per Second, 2300 Hz handshake, Standard Format
40P 1400 ACC +2	40 Pulses Per Second, 1400 Hz handshake, 3x2 or 4x2 Format
40P 2300 ACC +2	40 Pulses Per Second, 2300 Hz handshake, 3x2 or 4x2 Format
40P 1400 EXTEND	40 Pulses Per Second, 1400 Hz handshake, Extended Format
40P 2300 EXTEND	40 Pulses Per Second, 2300 Hz handshake, Extended Format
40P 1400 PART EX	40 Pulses Per Second, 1400 Hz handshake, Partial Extended
40P 2300 PART EX	40 Pulses Per Second, 2300 Hz handshake, Partial Extended

Use the 0 key to toggle through the available choices.

The following receivers/formats are compatible for UL listed systems;

FBI Model CP220 All formats except 4x2 Express
ADEMCO Model 685 All formats except FBI

Superfast

Silent Knight Model 9000: 10PPS, Standard no Parity

NOTE: This question will be skipped if signals are not transmitted to CS#1 (Question 003).

CS FORMAT EXAMPLES

The control panel can transmit a variety of formats to the Central Station. Listed below is an explanation of each format and the overall format of the digits transmitted. Further information concerning the definition of the codes can be located in the appropriate questions within this manual. Consult your Central Station manager to determine the formats acceptable to your Central Station.

POINT ID (PID) Format

This is a DTMF format that transmits the following information:

ACCT 18 QXYZ GG CCC

Where:

ACCT =Four Digit Account Number

18 =Identifies PID format

Q =Event Type

1 =New Event or Opening

3 =Restore or Closing

6 =Previously reported event

XYZ =Event Code. Dedicated event types exist to designate the type of event. These codes will generate English language printouts on both the FBI CP220 and ADEMCO 685 receivers. The valid event codes are described in Table 1 PID Event Codes and Chart A Zone PID Event codes.

GG =Group or Partition initiating the signal

CCC =Zone or user number (in Decimal), depending on the signal type

NOTE: This format requires a High/Low handshake frequency from the CS receiver.

FBI SUPERFAST

DTMF Format transmitting the following information;

ACCT AZZ S

Where:

ACCT =Four Digit Account Number

A =Alarm Type (Burglary, Fire, etc.)

ZZ =Zone number (in Hexidecimal)

S =Signal Type (Bypass, Restore, Trouble, etc.)

NOTE: Select the required handshake frequency: 1400HZ or 2300HZ.

4x2 Express

DTMF format transmitting a four digit account number followed by a two digit event code. Example:

1234 35

NOTE: This format requires a High/Low handshake frequency from the CS receiver.

STANDARD FORMAT

Typically involves a 3 or 4 digit account number followed by a single digit event code. Examples

123 3, or, 5434 2.

EXTENDED FORMAT

Typically transmits two rounds of information. the first round usually includes the account number, while the second round repeats the expansion digit before identifying the zone (or condition) code. Examples:

123 3

333 1

4321 E

EEEE 7

PARTIAL EXTENDED

The partial extended format transmits a standard signal for alarm conditions and an extended message for restores and other system conditions. Examples:

Alarm Condition

853 1

Restore Condition

853 E

EEE 1

ACC +2

This format transmits either a three or four digit account number followed by a two digit event code. This format is sometimes called 4x2 or 3x2 format. Example:

123 43

or

5467 35

When using Ademco PID format, the XL4 sends dedicated PID event codes. The following table lists the PID Event Codes.

TABLE 1 - PID Event Codes

EVENT	PID EVENT CODE	ZONE/POINT/USER #
Opening	Dedicated Code , not programmable; sends 1 "Opening" as Event Type followed by 402 "Group O/C"	Reports programmed 3 digit User CSID code from question #027
Closing	Dedicated Code , not programmable; sends 3 "Closing" as Event Type" followed by 402 "Group O/C"	Reports programmed 3 digit user cs code from question #027
Abort	Dedicated Code , not programmable; sends 406 "Cancel"	Reports programmed 3 digit user cs code from question #027
Cancel	Dedicated Code , not programmable; sends 458 "User on Premise"	Reports programmed 3 digit user cs code from question #027
Zone Bypass (Keyswitch)	Dedicated Code , not programmable; sends 570 "Zone Bypassed"	Reports programmed 3 digit zone cs code from question #136
Fire Bypass	Dedicated Code , not programmable; sends 571 "Fire Bypassed"	Reports programmed 3 digit zone cs code from question #136
24HR. Zone Bypass	Dedicated Code , not programmable; sends 572 "24 Hour Zone Bypassed"	Reports programmed 3 digit zone cs code from question #136
Burg. Bypass	Dedicated Code , not programmable; sends 573 "Burglary Bypassed"	Reports programmed 3 digit zone cs code from question #136
Clock Set	Dedicated Code , not programmable; sends 625 "Time/Date Set"	Dedicated Code , not programmable; by #3: reports #001, by installer : reports #255
System Test	Dedicated Code , not programmable; sends 602 "Periodic Test Report"	Reports programmed 3 digit in CS Test ID Code from question #090
AC Loss	Dedicated Code , not programmable; sends 301 "AC Loss"	Reports programmed 3 digit in AC Loss ID Code from question #091
Low Battery	Dedicated Code , not programmable; sends 302 "Low System Battery"	Reports programmed 3 digit in Low Battery ID Code from question #092
System Error	Dedicated Code , not programmable sends 300 "System Trouble"	Reports programmed 3 digit in System Error ID Code from question #093
Download	Dedicated Code , not programmable; sends 306 "Panel Program Changed"	Reports programmed 3 digit in Dowload ID Code from question #094
Zone Alarms	Programmable question #137 Zone PID Code; sends 3 digits according to the Zone PID Types	Reports programmed 3 digit in Zone CS Code from question #136
Zone Troubles	Dedicated Code , not programmable; sends 373 "Fire Trouble" for Fire Zones, sends 370 "Protection Loop" for Burg. Zones	Reports programmed 3 digit in Zone CS Code from question #136
Zone Restores	Dedicated Code , not programmable; sends 3 "Restore"as Event Type followed by programmable PID Code	Reports programmed 3 digit in Zone CS Code from question #136
Keypad Conditions	Programmable question #166 Keypad PID Code; sends 3 digits according to the Zone PID Types	Reports programmed 3 digit in Keypad CS Code from question #165

The following table lists the Event Codes for double digit event reporting formats: 3X1 Ext., 4X1 Ext., 3X2 and 4X2.

TABLE 2 - Double Digit Event Reporting

EVENT	FIRST DIGIT OF EVENT CODE	* SECOND DIGIT OF EVENT CODE
Opening	Quest. #084, Opening Code; program as 0-F	Quest. #027, User CSID Code; program as 000-015; reports as 0-F
Closing	Quest. #085, Closing Code; program as 0-F	Quest. #027, User CSID Code; program as 000-015; reports as 0-F
Abort	Quest. #083, Abort Code; program as 0-F	Quest. #027, User CSID Code; program as 000-015; reports as 0-F
Cancel	Quest. #087, Cancel Code; program as 0-F	Quest. #027, User CSID Code; program as 000-015; reports as 0-F
Bypass	Quest. #081, Bypass Code; program as 0-F	Quest. #136, Zone CS Code; program as 000-015; reports as 0-F
Clock Set	Quest. #086, Clock Set Code; program as 0-F	Dedicated Code; by installer mode reports as 1; by #3 reports as F
System Test	Quest. #089, System Test Funct. Code; program as 0-F	Quest. #090, System Test CS Code; program as 000-015; reports as 0-F
AC Loss	Quest. #122, AC Loss Trouble Type CS Code; program as 0-F	Quest. #091, AC Loss CS Code; program as 000-015; reports as 0-F
Low Battery	Quest. #122, Low Battery Trouble Type CS Code; program as 0-F	Quest. #092, Low Battery CS Code; program as 000-015; reports as 0-F
System Error	Quest. #122, System Error Trouble Type CS Code; program as 0-F	Quest. #093, System Error CS Code; program as 000-015; reports as 0-F
Download	Quest. #092, Download Funct. Code; program as 0-F	Quest. #094, Download CS Code; program as 000-015; reports as 0-F
Zone Alarms	Quest. #105, Alarm Type CS Code; program as 0-F (Find Alarm Type for in zone in quest. #149)	Quest. #136, Zone CS Code; program as 000-015; reports as 0-F
Zone Troubles	Quest. #122, Trouble Type CS Code; program as 0-F (Find Trouble Type for zone in quest. #150)	Quest. #136, Zone CS Code; program as 000-015; reports as 0-F
Zone Restores	Quest. #108, Alarm Type CS Restore Code, or quest. #123, Trouble Type CS Restore Code; program as 0-F	Quest. #136, Zone CS Code; program as 000-015; reports as 0-F
Keypad Conditions	Quest. #107, Alarm Type CS Code, program as 0-F (Find Alarm Type for condition in quest. #168)	Quest. #165, Keypad Cond. CS Code; program as 000-015; reports as 0-F

* **NOTE:** Due to the limitation of representing hexadecimal numbers using a single digit, a maximum of 16 zones and 16 users can be reported.

CS#1 ACCOUNT SIZE

**005 CS1 ACC SIZE
4 DIGIT ACC**

This question indicates whether a three or four digit account number will be transmitted to CS#1. If a three digit account number is selected then any fourth digit will be ignored. Depression of the 0 key will toggle between 3 and 4 digit account number.

The actual account number transmitted to the Central Station #1 is defined in question 171.

NOTE: The FBI Superfast, ACC +2, and ADEMCO PID (point ID) formats utilize a four digit account number

CS#1 PARITY SELECTION

**006 PARITY CS1
YES**

Enter the desired parity setting for CS#1 transmissions. Parity is an error detection scheme which is used in certain CS transmission formats. If you are unsure about the parity setting for your receiver please contact your Central Station manager.

NOTE: This question will be skipped if signals are not transmitted to CS#1 (question 003).

SESCOA FORMAT CS#1

**007 SESCOA
NO**

This question indicates whether the SESCOA format for fixed digit timing will be transmitted to CS#1. Depression of the 0 key will toggle between YES and NO. Note: This only applies to the various pulse based CS transmission formats and will be skipped if signals are not transmitted to CS#1 (question 003). **NOTE:** This option shall not be used for UL listed systems.

SECONDARY CENTRAL STATION RECEIVER

008 CS2 PH. #

The XL-4 can transmit digital alarm signals to two separate Central Station numbers. Enter the complete telephone number of the secondary Central Station receiver line. The telephone number should be entered with the correct area code or access control digits necessary to dial the Central Station receiver from the panel location.

The secondary CS receiver (CS#2) telephone number can contain up to 32 digits. If the panel does not communicate with the secondary Central Station or the panel is being used

in a local only application (see question 016) then leave this question blank.

To erase an entire existing telephone number, position the cursor at the first digit and depress the SHIFT (*) key followed by the 8 key. See the Callback Number for a full explanation of telephone number entry. For explanations of the CS transmission formats see question 004.

CS#2 RECEIVER TYPE

**009 TYPE CS2
FBI SUPER 2300HZ**

The XL-4 panel transmits in a variety of DTMF and pulse formats to the Central Station receiver. This question selects the type of CS transmission made to CS#2. The valid options are:

FBI SUPER 1400HZ	FBI Superfast Format 1400 Hz Handshake
FBI SUPER 2300HZ	FBI Superfast Format 2300 Hz Handshake
ADEMCO Point ID	ADEMCO Point ID format
4x2 Express	ADEMCO 4x2 Express format
BFSK 2300	RADIONICS BFSK 2300Hz handshake
10P 1400 STAND	10 Pulses Per Second, 1400 Hz handshake, Standard Format
10P 2300 STAND	10 Pulses Per Second, 2300 Hz handshake, Standard Format
10P 1400 ACC +2	10 Pulses Per Second, 1400 Hz handshake, 3x2 or 4x2 Format
10P 2300 ACC +2	10 Pulses Per Second, 2300 Hz handshake, 3x2 or 4x2 Format
10P 1400 EXTEND	10 Pulses Per Second, 1400 Hz handshake, Extended Format
10P 2300 EXTEND	10 Pulses Per Second, 2300 Hz handshake, Extended Format
10P 1400 PART EX	10 Pulses Per Second, 1400 Hz handshake, Partial Extended
10P 2300 PART EX	10 Pulses Per Second, 2300 Hz handshake, Partial Extended
20P 1400 STAND	20 Pulses Per Second, 1400 Hz handshake, Standard Format
20P 2300 STAND	20 Pulses Per Second, 2300 Hz handshake, Standard Format
20P 1400 ACC +2	20 Pulses Per Second, 1400 Hz handshake, 3x2 or 4x2 Format
20P 2300 ACC +2	20 Pulses Per Second, 2300 Hz handshake, 3x2 or 4x2 Format
20P 1400 EXTEND	20 Pulses Per Second, 1400 Hz handshake, Extended Format
20P 2300 EXTEND	20 Pulses Per Second, 2300 Hz handshake, Extended Format
20P 1400 PART EX	20 Pulses Per Second, 1400 Hz handshake, Partial Extended
20P 2300 PART EX	20 Pulses Per Second, 2300 Hz handshake, Partial Extended
40P 1400 STAND	40 Pulses Per Second, 1400 Hz handshake, Standard Format
40P 2300 STAND	40 Pulses Per Second, 2300 Hz handshake, Standard Format

40P 1400 ACC +2	40 Pulses Per Second, 1400 Hz handshake, 3x2 or 4x2 Format
40P 2300 ACC +2	40 Pulses Per Second, 2300 Hz handshake, 3x2 or 4x2 Format
40P 1400 EXTEND	40 Pulses Per Second, 1400 Hz handshake, Extended Format
40P 2300 EXTEND	40 Pulses Per Second, 2300 Hz handshake, Extended Format
40P 1400 PART EX	40 Pulses Per Second, 1400 Hz handshake, Partial Extended
40P 2300 PART EX	40 Pulses Per Second, 2300 Hz handshake, Partial Extended

Use the 0 key to toggle through the available choices.

See CS#1 for compatible receivers for UL installations.

Contact the Central Station manager of your monitoring facility to determine the formats compatible with your Central Station.

NOTE: This question will be skipped if signals are not transmitted to CS#2 (Question 008).

CS#2 ACCOUNT SIZE

010 CS2 ACC SIZE
4 DIGIT ACC

This question indicates whether a three or four digit account number will be transmitted to CS#2. Depression of the 0 key will toggle between 3 and 4 digit account size. If a three digit account number is selected then any fourth digit will be ignored.

This question will be skipped if there is no transmission to CS#2 (question 008).

NOTE: The FBI Superfast, ACC +2, and ADEMCO PID (point ID) formats utilize a four digit account number

The actual account number transmitted to the secondary CS is defined in question 174.

CS#2 PARITY SELECTION

011 PARITY CS2
YES

Enter the desired parity setting for CS#2 transmissions. Parity is an error detection scheme which is used in certain CS transmission formats. If you are unsure about the parity setting for your receiver please contact your Central Station manager.

NOTE: This question will be skipped if signals are not transmitted to CS#2 (question 008).

SESCOA FORMAT CS#2

012 SESCOA
NO

This question indicates whether the SESCOA format for fixed digit timing will be transmitted to CS#2. **NOTE:** This only applies to the various pulse based CS transmission formats and will be skipped if there is no telephone number defined for CS#2 (question 008).

NOTE: This option shall not be used for UL listed systems. This question will be skipped if signals are not transmitted to CS#2 (question 008).

PANEL INSTALLER CODE

013 INSTAL CODE
123456

The XL-4 contains a series of functions which can only be performed by an authorized installer. These functions include keypad programming, walk test, time setup, and system log view.

In order to perform **any** of these installer reserved functions entry of this six digit installer code will be necessary. Each alarm company should select a six digit code in order to secure their panels from other installers. The code should probably be kept uniform for each Alarm company. The factory default value for the installer code is 123456. Note: If the default lockout option (Question #061) is selected then this value will not be overwritten with a system default. To erase the installer code press *8.

NOTE: Special care should be made whenever changing the installer code value since subsequent keypad programming sessions will require the code entered.

DIALING TYPE

014 DIAL
TONE

Selects the method that this control panel will use to dial the Central Station and is common to both Central Station phone numbers. Depression of the 0 key will toggle through the following options:

TONE	Touch Tone Dialing
FAST TONE	Fast Touch Tone
PULSE	Pulse (or rotary dialing)
ADAPTIVE	Touch Tone with Pulse Backup

NOTE: The option labeled fast tone transmits the touch tone frequencies at twice the normal speed, and will automatically revert to normal touch tone if unsuccessful. This fast tone option may not be valid in all telephone exchanges. In the ADAPTIVE dialing mode the control panel will attempt to dial in normal touch tone and if dial tone is not broken revert back to pulse dialing. **NOTE:** This question will be skipped if all the telephone numbers are blank.

DIAL TONE DETECTION

015 DIAL TONE
NO

Indicates whether the control panel will look for dial tone before attempting any dialing attempt. If dial tone detection is selected then the panel will immediately dial if dial tone is selected. This option can speed up outgoing dialing without the normal delays. If dial tone is not present then the system will undergo the anti-jam sequence as described in question 023.

If the dial tone detection option is not selected then the system will follow the anti-jam procedure as described in question 023.

CENTRAL STATION DIALER ENABLE

016 DIAL ENAB
YES

This question indicates whether the communicator section will be active for the panel. If the system is being operated as a local alarm only or the dialer operation should be suspended enter NO. Default =YES.

REMOTE OPERATION

017 REM ENAB
YES

Indicates whether remote actions of any kind will be permitted on this panel. This includes uploads, downloads, arms/disarms, bypasses and status checks. Remote operations can be initiated through the EZ-Mate PC downloading software.

Questions 18 - 20 indicate specifically which remote actions will be permitted.

REMOTE DISARM ENABLE

018 REM DISARM
YES

Indicates whether this panel can be disarmed remotely through the EZ-MATE PC Based Downloader. This question provides an additional layer of security for remote operations. This question will be skipped if the answer to the Remote Operations question 17 is NO. If the system is programmed for transmission of closing signals then the signal will be sent after completion of the downloading session.

NOTE: This question must be answered "NO" for UL listed systems.

REMOTE ARM ENABLE

019 REM ARM
YES

Indicates whether this panel can be armed remotely through the EZ-MATE PC Based Downloader. This question provides an additional layer of security for remote operations. This question will be skipped if the answer to the Remote Operations question 17 is NO. If the system is programmed for transmission of opening signals then the signal will be sent after completion of the downloading session.

REMOTE BYPASS ENABLE

020 REM BYPASS
NO

Indicates whether this panel can have individual zones bypassed or unbypassed remotely through the EZ-MATE PC Based Downloader. This question will be skipped if the answer to the Remote Operations question 17 is NO. If the system is programmed for transmission of bypass signals, then the signal will be sent after completion of the downloading session.

NOTE: This question must be answered "NO" for UL listed systems.

NUMBER OF ATTEMPTS

021 # ATTEMPTS
08 (01-16)

Indicates the number of attempts made by the dialer to reach the Central Station receiver. Transmission will repeat up until the maximum number of attempts if a transmission is unsuccessful.

If the Central Station reporting path transmits signals to either receiver telephone numbers then transmission will alternate between the two numbers if either line is busy.

Default value =08, 16 means 16 attempts.

NOTE: For UL Listed applications this shall be programmed for a value between 5 and 10 attempts.

RING COUNT

022 # RINGS
08 (01-16)

Whenever the Alarm Company attempts to communicate remotely with the XL-4 it will dial the telephone number attached to the control panel. This question determines how many rings are necessary for this XL-4 panel to pickup. Note: After the first ring the control panel will listen into the telephone line to determine whether there is an EZ-Mate downloader present. If the downloader is present then the

control panel will pick up the line, after the ring count has occurred.

The number of rings should be selected not to interfere with normal operation of the protected premise. For example, if the XL-4 is connected to the existing telephone line of the location a value of one ring for pickup would probably be undesirable since the panel would pickup and seize the telephone line every time the premise telephone would ring.

If an answering machine is present at the control panel site, then the number of rings should be set greater than the number of rings for the answering machine to pickup.

Default value =8.

EXTENDED ANTIJAM TIME

023 EXT ANTIJAM
NO

The XL-4 contains an anti-jam feature before it performs any communicator dialing. The antijam feature will disconnect the internal telephone line and perform a hang-up on any external connection. The standard hang-up time is 4 seconds, and the extended option will hang up for 30 seconds prior to dialing.

The antijam time represents the amount of time that the panel will wait between the time that the dialer has seized the line to the time that the dialing begins.

The anti-jam sequence will be utilized if dial tone detection is not selected or if dial tone detection is selected and dial tone is not present at the time of dialing (see question 015). Default =NO.

EXTENDED ACKNOWLEDGMENT

024 EXTENDED ACK
NO

Indicates whether the panel should wait up to 120 seconds for an acknowledgment from the Central Station receiver, otherwise the panel will wait 30 seconds. Press the 0 key to toggle between the available choices.

Default =NO.

NOTE: This option must be programmed as "NO" for UL Listed Systems.

8.2 USER DEFINITION

The XL-4 Control panel contains up to 64 User codes. Each user has a unique four digit user code, an authorization code, partition assignments, open/close assignments, and a master partition. This section of the Installer keypad programming is used to setup the authorization levels and user partition assignments within the panel.

NOTE: The definition of the actual user codes is **not** performed within the Installer Keypad Programming sequence. Definition or modification of user codes can be performed through keypad entry by the end user or installer or remotely by an authorized operator through the EZ-Mate PC software.

SELECT USER NUMBER

025 SEL USER #
_ 000=SKIP

This question indicates the desired user number to be modified. Entry of 000 will skip to the next group of questions (System Attributes). The XL-4 can contain up to 64 different users. The user numbers range from 001 to 064.

USER AUTHORIZATION LEVEL

026 US LEV #XXX
_ (1-7)

Authorization levels within the XL-4 control panel determine the functions that each user may perform within the control panel. The values range from 1 (highest) to 7 (lowest) as defined below:

- | | |
|---------|---|
| LEVEL 1 | SUPER USER
Arm, Disarm, Bypass, Program
Users, Change Partition
Assignments in ALL partitions |
| LEVEL 2 | Arm, Disarm, Bypass, Program
Users, Change Partition
Assignments in own partitions |
| LEVEL 3 | Arm, Disarm, Bypass, Program
Users |
| LEVEL 4 | Arm, Disarm, Bypass |
| LEVEL 5 | Arm, Disarm |
| LEVEL 6 | DURESS CODE |
| LEVEL 7 | Arm ONLY Code (Maid Code) |

Consult the Installation Manual or Owners Manual for further information on the functions performed by various users. **NOTE:** Users with authorization levels of 1,2 or 3 are considered Master Users.

USER CS OPEN/CLOSE ID

027 O/C ID #xxx
___ 001- 255

This indicates the digits to be transmitted to the Central Station when this user opens or closes the premise. The default value for each users CS code will be the user number. If Open/Close signals are not transmitted or if the reporting format does not transmit O/C by user ID (example STANDARD) then this value will be ignored.

The user code transmitted to the Central Station may be restricted by the type of transmission format selected. For example, if you are transmitting in either the standard, extended or 4x2 formats there is only one digit to transmit a user code, therefore you can only identify user codes in the 0 - 15 range. The Point ID (PID) format will allow you to transmit any desired user code from 001 - 255.

If transmitting in the Point ID Format then enter the exact value you wish to transmit for the user code. Since the default value is the physical user number then the default value may be sufficient (example, user number 62 will appear at the receiver as 062).

If a hexadecimal value is desired for transmission (example 4x2, standard or extended formats) , enter the decimal equivalent. For example to transmit an open/close user ID of B, enter 011. This will only be required if transmitting a format such as 4x2. Examples: A = 010, B = 011, C = 012, D = 013, E = 014, F = 015.

USER PARTITION ASSIGNMENT

028 US PART #XXX
YNNNNNNN

This question defines the partition assignment for this user. Users can be defined for multiple partitions which means that their user access codes will be accepted at the keypads associated with that partition. If the system is being operated as a single partition then all active users should be defined to partition number 1. If a user is active in more than one partition then the account number transmitted will depend on the partition where the signal was initiated.

The FORWARD (INSTANT) and BACKWARD (CODE) keys are used to move the cursor to the desired position and the TOGGLE (O) key allows YES/NO selection for the partition. For example, the first position represents partition #1, the second position is partition #2 etc.

NOTE: For UL Listed systems, all users shall be assigned to partition 1.

USER OPEN/CLOSE TRANSMIT ENABLE

029 O/C EN #xxx
YYYYYYYY

This question indicates whether this user should transmit an open/close signals to the Central Station by partition.

For example, the owner of a partitioned system may have access to all of the partitions, however signals should only be sent to the CS if this user initiates an opening or closing from partition number 1. **NOTE:** All activity will still be maintained within the system log.

The user must also be programmed within the desired partition and an open/close code must be defined in order for transmission to occur.

The FORWARD (INSTANT) and BACKWARD (CODE) keys are used to move the cursor to the desired position and the TOGGLE (O) key allows YES/NO selection for the partition. For example, the first position represents partition #1, the second position is partition #2 etc.

USER MASTER PARTITION

030 US MAST #xxx
___ (1-8)

The system contains the capability to define, modify and delete users through the keypad. This capability is determined by the authorization level of the user (levels 1 - 7 as defined in question 026). As an additional precaution against users performing modifications across partition boundaries each of these users will contain a master partition value, such that users with the proper authority level can program only those users that have the same master partition number.

For example, to prevent authorized users within partition one from changing user codes assigned to partition two, simply program the users in partition #1 to have a master partition of one, and the users in partition two to have a master partition of two.

8.3 SYSTEM ATTRIBUTES

The System Attributes defines the parameters which are common to all zones and partitions within the control panel.

EXPANSION MODULES

031 EXPAND MODE NO EXPAND

This question selects which zone expansion module is present in the XL-4 control panel. Press the 0 key to toggle through the available choices:

- NO EXPAND** Zone expander slot empty - Control panel contains 8 hardwired zones only.
- 8 ZONE EXP.** Model 7105 zone expander module is present. Total of 16 zones consisting of the 8 zones on-board and 8 additional hardwired zones through the expander module.
- MUX EXPAND 1** Multiplex expansion module (model 7120) present. System contains 8 hardwired zones plus up to 64 multiplex points, using a two wire multiplex bus. The multiplex zones are known as 9 - 72.
- The MUX EXPAND 1 option will scan the multiplex bus upon reset and will find the active points connected to the bus. Using this auto scan mode, the active devices must be programmed within the programming sequence to the desired attributes and connected to the bus and be operational prior to the system reset. **NOTE:** The reset occurs during a total powerup or after exiting programming (keypad or remote).
- MUX EXPAND 2** Multiplex expansion module (model 7120) present. System contains 8 hardwired zones plus up to 64 multiplex points, using a two wire multiplex bus. The multiplex zones are known as 9 - 72.
- Under MUX EXPANDER 2 the valid zones connected to the multiplex bus are determined by the zone definitions. An active multiplex zone will be defined as any zone (9 - 72) which contains a zone definition with at least be condition that can cause an alarm/trouble. See questions 151 - 154. In this mode an inactive zone would be a zone that would contain the alarm/trouble on open/short questions all programmed as NO.

NOTE: If any of the expander modules are defined within this question then the module **must** be connected to the control panel.

OPEN/CLOSE CS REPORTING PATH

032 OP/CL PATH NONE

Specifies the transmission path for opening and closing signals. If the system includes exception reporting then opening and closings mean that the events occurred within the schedule time for that day. The options are:

- | | |
|--------------|------------------------|
| CS#1 ONLY | Primary rec. only |
| CS#2 ONLY | Secondary rec. only |
| CS#1 & CS#2 | Both receivers always |
| CS#1 BU CS#2 | CS#1 backed up by CS#2 |
| CS#2 BU CS#1 | CS#2 backed up by CS#1 |
| NONE | No O/C transmissions |

Press the 0 key to toggle through the available choices.

NOTE: The opening and closing reporting path will cover all partitions in a multi-system installation. Openings and closings shall be enabled in UL Listed Commercial Burglary applications.

CLOCK SET REPORTING PATH

033 CLOCK PATH NONE

Specifies the transmission path for the Schedule Change reporting code to the CS. A clock set signal can be transmitted to the Central station every time the time on the clock is changed at the keypad. The options are:

- | | |
|--------------|------------------------|
| CS#1 ONLY | Primary rec. only |
| CS#2 ONLY | Secondary rec. only |
| CS#1 & CS#2 | Both receivers always |
| CS#1 BU CS#2 | CS#1 backed up by CS#2 |
| CS#2 BU CS#1 | CS#2 backed up by CS#1 |
| NONE | No transmission |

Press the 0 key to toggle through the available choices.

NOTE: This reporting path will cover all partitions in a multi-system installation based on the exception reporting option specified in question 033. The code transmitted for clock set is defined in question 086.

TEST SIGNAL REPORTING PATH

034 TEST CS PATH NONE

Specifies to which Central Station the periodic system test signals are transmitted. The options are:

- | | |
|--------------|------------------------|
| CS#1 ONLY | Primary rec. only |
| CS#2 ONLY | Secondary rec. only |
| CS#1 & CS#2 | Both receivers always |
| CS#1 BU CS#2 | CS#1 backed up by CS#2 |
| CS#2 BU CS#1 | CS#2 backed up by CS#1 |
| NONE | No Test transmissions |

Press the 0 key to toggle through the available choices.

NOTE: Test code transmission shall be enabled in UL Listed applications.

SYSTEM TEST INTERVAL

035 TEST FREQ
24 HOUR

Indicates the frequency of automatic system test reports. Test reports can be transmitted to the Central Station on a daily (every 12 or 24 hours) or on a weekly basis. System Test signals will be transmitted only if a transmission path is specified in question 034. The test code transmitted is entered in the System Test question (#089). The time of day (hour and minute) for transmission of system test is entered in questions 036 & 037. Press 0 to toggle between the following options:

12 HOUR
24 HOUR
SUNDAY
MONDAY
TUESDAY
WEDNESDAY
THURSDAY
FRIDAY
SATURDAY

NOTE: System test will report the account number for partition #1 in a multi-partitioned system. Also, for UL listed applications, the test frequency shall be 12 or 24 hours.

TEST TIME - HOUR

036 TEST TIME HR
23 (00 - 23)

Enter the hour of the day, in 24 hour time, for transmission of system test signal. Example 5PM =17. The test time is only applicable if there is a test signal and transmission path defined.

TEST TIME - MINUTE

037 TEST TIME MIN
00 (00 - 59)

Enter the minute within the hour, for transmission of a system test signal.

DOWNLOAD REPORTING PATH

038 DOWN PATH
NONE

Specifies the Central Station transmission path for a signal confirming a system download. This signal will be sent upon any valid remote communications connection with the control panel. This allows the Central Station to be notified upon a remote communications session (upload/download or remote commands). The options are:

CS#1 ONLY	Primary rec. only
CS#2 ONLY	Secondary rec. only
CS#1 & CS#2	Both receivers always
CS#1 BU CS#2	CS#1 backed up by CS#2
CS#2 BU CS#1	CS#2 backed up by CS#1
NONE	No Download transmissions

Press the 0 key to toggle through the available choices.

BYPASS REPORTING PATH

039 BYPASS PATH
NONE

Specifies the Central Station transmission path for system bypasses. The options are:

CS#1 ONLY	Primary rec. only
CS#2 ONLY	Secondary rec. only
CS#1 & CS#2	Both receivers always
CS#1 BU CS#2	CS#1 backed up by CS#2
CS#2 BU CS#1	CS#2 backed up by CS#1
NONE	No Bypass transmissions

Press the 0 key to toggle through the available choices.

DISABLE BYPASS ON STAY

040 DIS STAY BYP
NO

Indicates whether a bypass signal transmission will be disabled when performing STAY arming. If answered as NO then bypasses will be transmitted to the Central Station. If YES then bypasses will not be transmitted.

In either case, the bypasses will be reflected in the system log. Press the 0 key to toggle between the available choices.

This question also determines whether bypasses will be transmitted when performing group bypasses. If answered as NO then individual bypasses will be transmitted to the Central Station. If YES, then bypasses will not be transmitted when a group bypass is performed.

BYPASS TRANSMISSION TYPE

041 XMIT BYPASS
ON BYPASS

Specifies when bypasses are transmitted to the Central Station. The options are:

ON BYPASS	Transmit at time of bypass
ON ARMING	Transmit upon system arming

Bypassing can be enabled or disabled by zone. **NOTE:** This must be programmed "ON BYPASS" for UL Listed systems.

Press the 0 key to toggle between the available choices.

AUTO UNBYPASS ENABLE

042 AUTO UNBY EN
YES

Indicates whether bypassed zones will automatically be unbypassed upon system disarm. Bypasses will be generated for the bypassed zones if a bypass code has been defined. This option will only unbypass zones if there are no other alarm or trouble conditions present. **NOTE:** This must be programmed "YES" in UL Listed systems. Press the 0 key to toggle between the available choices.

ARMING OUTPUT LEVEL

**043 ARM OUT LEV
HIGH**

Indicates the desired voltage level on trigger output for arming status. The system contains one voltage output located on the trigger connector of the control panel which represents the current arming state for the entire panel. If the system contains multiple partitions then this output will be at the selected level if any of the partitions are armed. The options are HIGH and LOW. Press the 0 key to toggle between the available choices.

BELL TEST AT ARMING

**044 BELL TST ARM
NO**

Indicates whether a bell test will be performed when the system is armed. Default = NO. **NOTE:** The bell output is assumed to be relay 1, and will only operate with relay 1.

NOTE: This must be programmed as "YES" in UL Listed Commercial Burglary applications.

Press the 0 key to toggle between the available choices.

BELL RINGBACK AT CLOSING

**045 BEL RBAK
NO**

Indicates whether there will be a bell ringback at closing. If YES then the bell (relay 1) will pulse several times indicating a successful closing signal to the Central Station. If the system is partitioned then this can occur for each of the partitions. Default = NO. Press the 0 key to toggle between the available choices.

SOUNDER RINGBACK

**046 SOUND RBAK
YES**

Indicates whether a keypad sounder ringback will occur and applies to all signals transmitted to the Central Station. This is similar to the bell ringback option described in the previous question except this involves the keypad sounder. If the system is partitioned then the sounder ringback will occur at the keypads defined for the partition that has closed. Default = Yes. Press the 0 key to toggle between the available choices.

NOTE: For UL applications either question 45 or 46 must be "YES".

FIRE VERIFICATION

**047 FIRE VERIF
YES**

Indicates whether relay number 2 will be used as a fire (or smoke) reset for the hardwired zones of the XL-4. If YES then relay #2 will be dedicated to the fire reset function.

If Fire Verification is not used then relay #2 is available for other purposes providing that no zones are defined for FIRE-SMOKE purposes in question 132.

This question must be set to NO if relay 2 is desired for operation other than as a smoke detector reset.

NOTE: If four wire smoke detectors are used in conjunction with multiplex adapters then the smoke reset will originate from relay # 2.

Press the 0 key to toggle between the available choices.

RESET KEY FUNCTION

**048 ENAB RESET
NO**

Indicates whether the system reset function can be performed through depression of the *key, or the 3 & 1 keys together. This is an alternative to entry of a valid user code. The RESET function would be used to acknowledge system activity such as alarms or troubles and to exit the alarm memory mode.

If YES, then system reset can be performed using the * key, 3 & 1 keys, or a valid user number. If NO then only a valid user code is accepted.

NOTE: In UL Listed systems this option must be "NO".

Press the 0 key to toggle between the available choices.

RESTORES TO FOLLOW LOOP

**049 RES FOL LOOP
NO**

Indicates whether all restore signals are to follow the loop or after bell cutoff. If NO then restores occur after the bell cutoff period and the loop has returned to the normal condition, or if the system is disarmed after alarm and the zone is not recycled. Default = NO.

NOTE: If selecting this option then the action on abort (question 049) should be programmed for "no abort". **NOTE:** In UL Listed systems this option must be "NO". Press the 0 key to toggle between the available choices.

ACTION ON ABORT

**050 ACT ON ABORT
NO ABORT**

Indicates the action to be taken on an abort. The options are:

ABORT CODE	Transmit the abort code
STOP DIALING	Stop the transmission, send nothing
NO ABORT	No abort capability
RESTORE	Transmit the restore code

Press the 0 key to toggle between the available choices.

The abort action is system wide and will be used for all zones within all partitions. Additional notes on the abort feature:

Only alarms caused by actual zones (not keypad emergency conditions) are abortable. Zones must have an alarm types specifying a dial delay to be abortable (even if the dial delay time is set to 0). If dial delay is set to NO in the alarm type then there is no capability to abort the signal.

Zones are abortable until receipt of handshake All formats (except PID) will transmit the abort action followed by the zone code. PID format will transmit the cancel code (406) and the user number.

MULTI-PARTITION MODE

051 CROSS PART
YES

This option enables an authorized user at one keypad to access other partitions within the system through the # 0 command. Authorized users will be able to view the status of other partitions and perform commands from the keypad. Press the 0 key to toggle between the available choices.

ENABLE QUICK ARMING

052 QUICK ARM
YES

Indicates whether the quick arming command [# 1] will be available to users of the system. **NOTE:** This enable is systemwide in a multi-partitioned system. Quick arming will transmit the CLOSE code, if programmed, along with the first user number defined for the partition if the transmission format sends a user code.

ENABLE QUICK FORCED ARMING

053 QUICK F-ARM
YES

Indicates whether the quick forced arming command [# 2] will be available to users of the system. **NOTE:** If quick forced arming is enabled then it will be available throughout all partitions of a multi-partitioned system. Quick forced arming will transmit the CLOSE signal, if programmed for CS transmission, along with the first user code defined for that partition if the transmission format sends a user code. **NOTE:** In UL Listed systems this option must be "NO". Press the 0 key to toggle between the available choices.

SECURE FORCED ARMING

054 SECURE F-ARM
YES

This indicates whether the forced arming function will be permitted within the system. The forced arm sequence requires a user code as follows : **BYPASS [User Code] BYPASS**. This applies to all partitions within the system. This option is independent of the quick forced arm option in the previous question. **NOTE:** In UL Listed systems this option must be "NO".

ENABLE KEYPAD ZONE DIRECTORY

055 ZONE DIR
YES

The XL-4 has a user initiated keypad function (LCD keypads only) which can scroll through the zone descriptions for all zones assigned to the partition (# 4). This question enables or disables the keypad directory function. Press the 0 key to toggle between the available choices.

ENABLE QUICK BYPASS ARMING

056 QUICK BYPASS
YES

Indicates whether the quick bypass command [# 5] will be available to users of the system. This applies to the quick bypass and quick group bypass commands. **NOTE:** If quick bypass is enabled then it will be available throughout all partitions of a multi-partitioned system. **NOTE:** In UL Listed systems this option must be "NO". Press the 0 key to toggle between the available choices.

ENABLE CHIME CONTROL

057 CHME CNTRL
YES

Indicates whether the keypad option to turn the system chime on and off [# 6] will be available to users of the system. **NOTE:** If chime control is enabled then it will be available throughout all partitions of a multi-partitioned system. Each zone has an individual option to select whether the zone can activate the chime (question 158). Press the 0 key to toggle between the available choices.

SUPER USER ENABLE

058 SUPER USER
YES

Selects whether user authorization level 1 will be able to alter user partition assignments within all partitions of the system. Press the 0 key to toggle between the available choices.

MULTI-PARTITION OPERATION

059 MULTI PART
ARM/DISARM

Selects the functions that are available through the multi-partition operation command [# 0]. The multi-partition option allows an authorized user to turn any keypad into an active keypad for any selected partition, or to group arm or disarm the system. Press the 0 key to toggle through the following multi-partition functions:

ARM/DISARM	Allows multiple partition arming and disarming by authorized users.
DISABLED	Multi partition function [# 0] is not permitted.
TO DISARM	Only multiple partition disarming is permitted.
TO ARM	Only multiple partition arming is permitted.

7 DIGIT USER CODE

060 USER# +CODE
NO

The control panel can be operated with either a four or seven digit user code. This question indicates whether the user code required throughout the system will be the 4 digit user code or the User # followed by the user code (seven digit) . Default =NO

If YES, then a seven digit entry will be required for all actions which require a user code. For example, if user # 7 has a user code of 1234 then that user would enter 0071234 to perform actions on the system.

This option affects all users for all partitions. Press the 0 key to toggle between the available choices.

DEFAULT LOCKOUT OPTION

061 CS/INST DEF
YES

This option is known as the default lockout option and determines whether the CSID and Installer Code will be modified upon initiating a system default. To obtain default lockout protection answer NO to this question.

If the Default Lockout option is selected then a system default will reset all of the programmable options except the CSID and the Installer Code. Press the 0 key to toggle between the available choices.

KEYPAD PROGRAMMING

062 KPAD PROG
YES

This question indicates whether keypad programming will be enabled. If keypad programming is disabled then the system can only be programmed through the EZ-Mate PC Software package. **WARNING: If this question is answered as NO you will be unable to reenter keypad programming.** Default =YES. Press the 0 key to toggle between the available choices.

DAYLIGHT SAVINGS TIME

063 DAYLITE SAV
NO

Indicates whether this location observes daylight savings time. If YES then the system will automatically switch the time when appropriate each season. Press the 0 key to toggle between the available choices.

AC LINE FREQUENCY

064 AC FREQ
60 HZ

Indicates the line frequency of the incoming AC power line. The Choices are 60 Hertz or 50 Hertz [Default =60HZ]. The 0 key will toggle between the choices of 60hz and 50hz. This question must be answered correctly based on the input power in order to insure an accurate system time clock.
NOTE: The standard value for the US is 60Hz.

NOTE: In UL Listed systems this option must be 60Hz.

8.4 SYSTEM TIMING

The System Timing section allows programming of the various timing options of the XL-4 panel.

BELL DELAY TIME

065 BEL DEL 15SC
01 (00-15)

Amount of time in 15 second increments prior to activating the bell (relay #1) upon system activity. The value is specified in steps of 15 seconds from 00 to 14, with 15 meaning an infinite delay. Example 00 =No delay , 03=45 second delay.

Each alarm type has a programmable option (question 107) indicating whether the alarm type adheres to bell delay. This allows certain emergency conditions to bypass the bell delay if desired.

NOTE: In UL Listed systems this option must be 00.

DIALER DELAY

066 DIAL DEL 15S
01 (00-15)

Indicates the amount of time before dialer activation in 15 second intervals. Similar to the bell delay, an option exists to override the dialer delay for certain conditions.

NOTE: In UL Listed systems this option must be 00.

EXIT DELAY #1

067 EXIT DL1 15SC
04 (00-15)

Specifies the exit delay in 15 second increments. The exit delay can be defined from 0 to 14 fifteen second intervals, with 15 indicating an infinite exit delay.

The zone attributes allows selection of the desired exit delay.

NOTE: This shall not exceed 60 seconds in UL Listed systems.

EXIT DELAY #2

068 EXIT DL2 15S
04 (00-15)

Specifies the exit delay in 15 second increments. The exit delay can be defined from 0 to 14 fifteen second intervals, with 15 indicating an infinite exit delay.

NOTE: This shall not exceed 60 seconds in UL Listed systems.

ENTRY DELAY1

069 ENT DEL1 15S
02 (00-15)

The XL-4 contains two separate entry time periods. This allows different entry times for different zones. For example a keypad placed by a garage door might require more time than a keypad located next to the front door. Each zone allows selection of either entry time (see question #156).

Specify entry delay #1 in 15 second increments. The entry delay can be defined from 0 to 14 fifteen second intervals, with 15 indicating an infinite exit delay.

NOTE: In UL residential applications the entry delay shall not exceed 45 seconds, or 15 seconds for UL Commercial Burglary applications.

ENTRY DELAY2

070 ENT DEL2 15S
04 (00-15)

Specifies entry delay #2 in 15 second increments. The entry delay can be defined from 0 to 14 fifteen second intervals, with 15 indicating an infinite exit delay. When defining individual zones an option exists to select entry delay 1 or 2 (see question 156).

NOTE: In UL residential applications the entry delay shall not exceed 45 seconds, or 15 seconds for UL Commercial Burglary applications.

AC LOSS DELAY

071 AC LOSS 15MN
01 (00-15)

Indicates the time delay in 15 minute intervals for transmission of an AC loss signal. AC failure must exist for the AC loss period before an AC loss signal will be transmitted.

A value of 00 indicates that AC failure should be sent immediately, while a value of 15 indicates that AC loss should never be sent. Default value =2 (30 minutes).

EXIT TRIGGERS

072 EXIT TRG
YYYYYYYY

Indicates whether any of the eight programmable voltage level output triggers will be activated upon an exit condition. The position of the Y or N indicates the trigger number. This trigger will be latched for the duration of the exit interval. Default =NNNNNNN.

The triggers are active high and go from 0 - 12 volts, 25 mA maximum current.

The FORWARD (INSTANT) and BACKWARD (CODE) keys are used to position the cursor to the desired position while the TOGGLE (O) key will change the Yes/No status of that trigger. The first position represents trigger #1, the second position trigger #2, etc

ENTRANCE TRIGGERS

073 ENT TRG
YYYYYYYY

Indicates whether any of the eight programmable voltage level output triggers will be activated upon an entrance condition. The position of the Y or N indicates the trigger number. This trigger will be latched for the duration of the entrance interval. Default =NNNNNNN.

The triggers are active high and go from 0 to 12 volts, 25 mA maximum current.

The FORWARD (INSTANT) and BACKWARD (CODE) keys are used to position the cursor to the desired position while the TOGGLE (O) key will change the Yes/No status of that trigger. The first position represents trigger #1, the second trigger #2, etc..

CUTOFF TIMER #1

074 TIMEOUT1 1MN
14 (00-15)

The XL-4 contains three different bell cutoff times which can be selected for the alarm and trouble types. Enter the duration of timeout #1 in one minute intervals.

CUTOFF TIMER #2

075 TIMEOUT2 2MN
15 (00-15)

The XL-4 contains three different bell cutoff times which can be selected for the alarm and trouble types. Enter the duration of timeout #2 in two minute intervals.

NOTE: The cutoff timers are selected in the alarm and trouble type and relate to whichever relay is used for that particular alarm or trouble type.

CUTOFF TIMER #3

076 TIMEOUT3 3MN
02 (00-15)

The XL-4 contains three different bell cutoff times which can be selected for the alarm and trouble types. Enter the duration of timeout #3 in three minute intervals.

CUTOFF TIMER NOTE:

The cutoff time selected for the alarm bell in residential applications shall be a 4 minute minimum, for UL Commercial Burglary applications the cutoff shall be a minimum of 16 minutes.

GLOBAL BELL LOCKOUT COUNTER

077 GLOB BELL LK
15 (00-15)

Indicates the total number of bell activations from all zones of the panel that will cause bell lockout. This counter will be reset with each arming of the system and will only be incremented by controllable zones that have been defined with the lockout feature enabled (question #157). The bell lockout feature merely prevents repeating activity from triggering the bell. Signals will continue to be transmitted to the Central Station in accordance with the zone definition. If signals are to be suppressed, then the dialer lockout feature should be considered. Default =15(None). If you do not want bell lockout enter 15.

NOTE: For UL Listed systems this option shall be programmed "15".

LOCAL BELL LOCKOUT COUNTER

078 LOC BELL LK
15 (00-15)

Indicates the number of bell activations for an **individual zone** that will cause a bell lockout. This counter will be reset with each arming of the system and applies only to burglary zones that have been defined with lockout enabled (see question #157). Default =15(None). If you do not want bell lockout enter 15.

NOTE: For UL Listed systems this option shall be programmed "15".

GLOBAL DIALER LOCKOUT COUNTER

079 GLOB DIAL LK
15 (00-15)

Indicates the number of dialer activations from all zones of the panel which will cause a dialer lockout. This counter will be reset with each arming of the system and applies only to burglary zones that have been defined with lockout enabled. Dialer lockout does not effect the bell activation. Default = 15(None).

If multiplex capability is present then the global lockout counter will be used to determine the number of individual point supervision faults which will lock out the dialer. Default =15(None).

If you do not want global dialer lockout enter 15.

NOTE: For UL Listed systems this option shall be programmed "15".

LOCAL DIALER LOCKOUT COUNTER

080 LOC DIAL LK
15 (00-15)

Indicates the number of dialer activations from an individual zone which will cause a dialer lockout. This counter will be reset with each arming of the system and applies only to burglary zones that have been defined with lockout enabled.

If multiplex capability is present then the local lockout counter will be used to determine the number of bus supervision faults which will lock out the dialer. Default = 15(None).

If you do not want local dialer lockout enter 15.

NOTE: For UL Listed systems this option shall be programmed "15".

8.5 SYSTEM FUNCTION CODES

The System Function Codes section defines the codes that will be transmitted to the Central Station when various conditions occur. The values A-F can be entered into any of these questions as follows:

DIGIT	KEYSTROKES
A	SHIFT 1
B	SHIFT 2
C	SHIFT 3
D	SHIFT 4
E	SHIFT 5
F	SHIFT 6

NOTE: The SHIFT key is the *(asterisk) key as shown on the programming overlay.

BYPASS CODE

081 BYPASS CODE
6 (0 - F)

Indicates the system reporting code for a bypass. An option exists per zone to determine whether bypasses are reported. Bypasses will be reported to the Central Station based on the bypass option selected in question #158.

NOTE: If transmitting the PID format then the following dedicated bypass codes will be transmitted based on the type of event:

Zone Bypass	570
Fire Bypass	571
24 Hr Zone Bypass	572
Burg Zone Bypass	573

BYPASS RESTORE CODE

082 BYP RES CODE
E (0 - F)

Indicates the system reporting code for a bypass restore. An option exists per zone to determine whether bypasses are reported. Bypasses will be reported to the Central Station based on the bypass option selected in question #156.

If transmitting in PID format then the bypass code transmitted will be the fixed code as described in the Bypass code question with an indication that the signal is a restore.

ABORT CODE

083 ABORT CODE
D (0 - F)

Indicates the reporting code for an abort. This abort code will only be transmitted if the action on abort (question #050) specifies Abort. Abort codes will be followed by the zone code for conventional formats and the user code in the PID format.

NOTE: If PID format is used then a code of 406 will be transmitted.

OPENING CODE

084 OPEN CODE
R (0 - F)

Indicates the reporting code for an opening. If the system is partitioned then the account number transmitted to the Central station will depend on the partition where the opening occurred. In addition if the transmission format selected includes the user code then the user number will also be included based on the Open/Close transmission path defined in question 032.

NOTE: For PID formats the code transmitted will be 402 with the new event indication.

CLOSING CODE

085 CLOSE CODE
C (0 - F)

Indicates the reporting code for a closing. If the system is partitioned then the account number transmitted to the Central station will depend on the partition where the closing occurred. In addition if the transmission format selected includes the user code then the user number will be included based on the transmission path defined in question 032.

NOTE: For PID format the CLOSE code is 402 with the restore indication.

CLOCK SET CODE

086 CLOCK CODE
Q (0 - F)

This defines the code to be transmitted to the Central Station if any clock set change is performed at the keypad. This signal will be transmitted based on the reporting path defined in question 033.

If PID Format is selected then an event code of 625 will be transmitted.

CANCEL CODE

087 CANCEL CODE
E (0 - F)

This code is transmitted to the Central Station if the system is disarmed after an alarm condition. If the format supports 2 digits, the second digit will be the user ID that disarmed the system. This signal will be transmitted based on the reporting path defined in question 088.

If PID Format is selected then an event code of 458 will be transmitted.

CANCEL PATH

088 CANCEL PATH
NONE

This indicates the CS transmission path for cancel codes. Press 0 to toggle through the available choices:

CS#1 ONLY	Primary Receiver Only
CS#2 ONLY	Secondary Receiver Only
CS#1 & CS#2	Both Receivers always
CS#1 BU CS#2	CS#1 backed up by CS#2
CS#2 BU CS#1	CS#2 backed up by CS#1
NONE	No cancel transmissions

NOTE: If transmitting PID format along with another cs format, then cancel codes shall be transmitted to both cs numbers if programmed for both. This only occurs if Action on Abort, question #050, is ABORT.

CS TEST CODE

089 CS TEST CODE
8 (0 - F)

Indicates the reporting code for a system test. The specific type of system test (12 hour, 24 hour or weekly) and the time of system test are defined in questions 035 - 037. Test signals will be transmitted based on the path defined in question 034. The system test code represents the entire panel rather than a specific partition and the account numbers for partition 1 will be used.

Enter a single digit for the system test code. In a 4x2 format this will represent the first digit transmitted for system test. For PID format the event code is defined in the next question.

CS TEST ID CODE

090 TEST ID CODE
253 000 - 255

If the Central Station reporting format selected is Point ID then this will define the zone identification to be transmitted to the CS. If PID Format is selected then an event code of 602 will be transmitted. If a 4x2 or extended format is used then this question will represent the second digit of the transmission. The code needs to be entered in decimal format (example 9 =009, A=010, B=011, C=012, D=013, E=014, F=015)

AC LOSS ID CODE

091 AC ID CODE
250 000 - 255

If the Central Station reporting format selected is Point ID (PID) then this defines the zone identification number to be transmitted to the CS. If PID Format is selected then an event code of 301 will be transmitted. If a 4x2 or extended format is used then this question will represent the second digit of the transmission. The code needs to be entered in decimal format (example 9 =009, A=010, B=011, C=012, D=013, E=014, F=015)

LOW BATTERY ID CODE

092 LOW BATT ID
251 000 - 255

If the Central Station reporting format selected is Point ID then this defines the point ID reporting condition to be reported to the CS for a low battery condition. If PID Format is selected then an event code of 302 will be transmitted. If a 4x2 or extended format is used then this question will represent the second digit of the transmission. The code needs to be entered in decimal format (example 9 =009, A=010, B=011, C=012, D=013, E=014, F=015).

SYSTEM ERROR ID CODE

093 SYS ERR ID
254 000 - 255

If the Central Station reporting format selected is Point ID then this defines the id (zone) to be transmitted to the CS upon sensing a system error. If PID Format is selected then an event code of 300 will be transmitted.

If a 4x2 or extended format is used then this question will represent the second digit of the transmission. The code needs to be entered in decimal format (example 9 =009, A=010, B=011, C=012, D=013, E=014, F=015).

DOWNLOAD CODE

094 DOWN CODE
E 0-F

The EZ-MATE Downloading software can transmit database information from the Alarm Company to the XL-4. Upon completion of a communications session (upload/download or remote commands) the panel can transmit a signal to the Central Station receiver to verify that

a downloading has taken place. This download code will be sent based on the Download code reporting path (question 038). **NOTE:** The Download code will transmit the account number for partition #1.

DOWNLOAD CODE ID CODE (PID FORMAT)

095 DOWN ID CODE
255 000 - 255

If the Central Station reporting format selected is Point ID then this defines the ID (zone) to be transmitted to the CS when the system completes a communications session with the EZ-Mate PC Downloading Software. If PID Format is selected then an event code of 306 is transmitted.

BUZZER ON AC LOSS

096 BUZ AC LOSS
YES

Indicates whether the buzzer should be activated upon AC Loss.

BUZZER ON LOW BATTERY

097 BUZ LOW BATT
YES

Indicates whether the buzzer should be activated upon a low battery condition.

BUZZER ON SYSTEM ERROR

098 BUZ SYS ERR
YES

Indicates whether the buzzer should be activated upon a system error condition. A system error will occur if there is a missing keypad or the system is having trouble communicating with a keypad that has previously existed.

24 HOUR - AC LOSS

099 24HR AC LOSS
YES

Indicates whether the buzzer should be activated, whether the system is armed or disarmed, upon detecting an AC loss.

24 HOUR - LOW BATTERY

100 24HR LOW BAT
YES

Indicates whether the buzzer should be activated, whether the system is armed or disarmed, upon detection of low battery.

24 HOUR - SYSTEM ERROR

101 24HR SYS ERR
YES

Indicates whether the buzzer should be activated if the system is armed and a system error condition exists.

TROUBLE TYPE - AC LOSS

102 TR T AC LOSS
1 (1-4)

Indicates the Trouble Type used upon sensing an AC loss. Default =1.

NOTE: The Trouble Types are defined in questions 118 through 130 and represents the actions to be taken when a trouble occurs. This includes the description that would appear on the LCD display, reporting codes, trigger outputs etc.

TROUBLE TYPE - LOW BATTERY

103 TR T LOW BAT
2 (1-4)

Indicates the Trouble Type used upon sensing a low battery. Default =2.

TROUBLE TYPE - SYSTEM ERROR

104 TR T SYS ERR
4 (1-4)

Indicates the Trouble Type used upon sensing a system error. Default =4.

8.6 ALARM TYPES

Alarm types are used to define the reporting codes and characteristics when a zone goes into an alarm condition. Each zone definition specifies an alarm type.

The alarm type includes information such as the description, CS reporting code, reporting type and trigger outputs. For example the system may contain more than one BURGLARY alarm type with slight differences such as a different bell output, or different CS reporting type.

The XL-4 contains sixteen different alarm types.

NOTE: The Alarm Type questions below display the Alarm Type number as ATxx, where xx will be the actual alarm type from 01 - 16.

Each zone contains a programmable option to define the alarm type to be used with that zone.

SELECT ALARM TYPE

105 SEL AL TYPE
__ 00=SKIP

The alarm type selection display requests the desired alarm type for maintenance. **The valid choices are 01-16 and an entry of 00 will skip the alarm type questions and proceed to the Trouble Types.** After completion of the last Alarm type question, the selection question will reappear and display the next alarm type value. For example after completion of alarm type #2 the display will proceed to alarm type #3.

ALARM TYPE DESCRIPTION

106 DESCR ATxx

The Alarm Type descriptions are used to provide English language prompts on the face of the LCD keypad. The descriptions are not transmitted to the Central Station.

Enter the description, up to ten characters, to be associated with this alarm type. If the system contains an LCD display then this description will appear on the first line of the display when an alarm condition has activated.

An explanation of how to enter text through the LCD display can be found in section 2 of this manual.

Examples of alarm type descriptions would include BURGLARY, FIRE, HOLDUP, LOW TEMP., etc. The alarm type description should apply to the general condition rather than the specific zone. When an alarm condition exists, the second line of the LCD display will display the sixteen character zone description which is defined in question #133, or the keypad emergency zone description defined in question 164.

ALARM TYPE CS CODE

107 CS CODE ATxx
__ (0 - F)

Indicates the code transmitted to the Central Station for this Alarm type. The placement of the code in the transmission depends on the formats selected for CS#1 & CS#2.

The XL-4 can transmit to two separate Central Stations and these two receivers can have different formats. **NOTE:** For all 2 digit reporting formats (3x1 partial or ext., 4x1 partial or ext., 3x2, and 4x2) this represents the first of the 2 digits. The second digit is the respective zone cs code. In a standard format (3x1 or 4x1) this code is not used. The only code is the respective zone cs code.

The following examples are provided for the different formats for transmissions of alarm conditions;

STANDARD

Example:

123 Z

where Z = Zone CS code (question # 134)

The value entered for the Alarm Type CS code will not be used.

EXTENDED

123 A

AAA Z

where: A = Alarm type CS Code and Z is the CS code contained in the zone definition (question 134).

NOTE: This format can contain either three or four digits within the account number.

PARTIAL EXTENDED

123 Z

where: Z =Zone CS code (question #133). The Alarm Type Cs code is not used for this format.

The partial extended format transmits a single round signal for alarm conditions and an expanded message for system conditions such as openings closings, troubles etc.

NOTE: This format can contain either three or four digits within the account number.

4x2

1234 AZ

where: A= Alarm type CS code and Z is the CS code contained in the zone definition (question #134).

FBI Superfast Format

1234 AZZA

where: A = Alarm type CS code and Z is the decimal equivalent (00-16) of the zone CS code (question #134).

Point ID Format

Within the point ID format, the alarm type CS code will not be utilized. All alarm signals will be sent with the "new condition" indication. See format explanations within question 008.

CS RESTORE

108 CS REST ATxx
___ (0 - F)

Indicates the restore code to the Central Station for this alarm type. This code will be transmitted if the specific zone has the restore option enabled (question 143).

ALARM TYPE CS TRANSMISSION PATH

109 CS REP ATxx
CS#1 ONLY

Specifies to which Central Station number this alarm type will be transmitted. The options are:

CS#1 ONLY	Primary rec. only
CS#2 ONLY	Secondary rec. only
CS#1 & CS#2	Both receivers always
CS#1 BU CS#2	CS#1 backed up by CS#2
CS#2 BU CS#1	CS#2 backed up by CS#1
NONE	No Alarm Transmission (Local condition)

Press the 0 key to toggle between the available choices.

NOTE: For UL Listed systems this option shall **not** be programmed "NONE".

BELL DELAY

110 BELL DL ATxx
YES

Indicates whether this alarm type should use the system bell delay. If YES then the delay time will be the duration indicated in the System Timing question (065). The type of bell output is selected in question #118 (Relay 1 Select). The bell delay option will also apply to the action selected for relay #2 (question #119) if the relay is not used for smoke detector reset.

ALARM TYPE DIALER DELAY

111 DIAL DL ATxx
YES

Indicates whether this alarm type should wait for the dialer delay time before communicating with the Central Station. The dialer delay time is defined in question #066. If NO dialer delay is selected then this alarm type will transmit immediately.

ALARM TYPE BUZZER ENABLE

112 BUZ EN ATxx
YES

Indicates whether the buzzer (keypad sounder) will be active for this alarm type. If the condition should be silent at the keypad then enter NO. If the system is partitioned then this question will relate to all of the keypads defined within that partition.

DISPLAY ALARM OPTION

113 DISPLAY ATxx
YES

Specifies whether this alarm type should visually be displayed at the keypads when an alarm condition exists. This option should be set to NO only if the condition being defined should not be annunciated at the keypad (example, silent panic).

If the YES option is selected then an alarm will generate a blinking zone ID light on the LED display or the appropriate English language display on the LCD display. Press the 0 key to toggle between the available choices.

NOTE: Except for silent panic or duress, this option shall be "YES" for UL Listed systems.

ALARM TYPE BELL CUTOFF SELECT

114 TIMEOUT ATxx
___ (1-3)

Indicates which of the three system bell cutoff periods applies to this alarm type. The system time-outs have been entered as questions 074 - 076, and relates to whichever relays have been selected in questions 118 and 119 for this alarm type.

ALARM TYPE PRIORITY

115 PRIOR ATxx
___ (01-16)

The XL-4 panel contains a priority structure in the event that multiple alarms occur at the same time. 01 =Highest priority, 16 =lowest.

For UL Listed systems the priorities assigned must use the following order

1. Fire Alarms
2. Burglary Alarms
3. Other zone types programmed as silent

ALARM TYPE MOMENTARY TRIGGERS

116 MOM TRG ATxx
NNNNNNNN

Indicates which of the voltage level triggers will be activated for a momentary basis with this Alarm Type. The triggers are selected by placing a Y in the appropriate trigger position. The triggers sit normally at 0V and upon activation go to 12V, with 25mA available current.

The FORWARD (INSTANT) and BACKWARD (CODE) keys will move the cursor position to the desired trigger position, which indicates the trigger number. The TOGGLE (O) key will change the Yes/No status of the trigger.

ALARM TYPE LATCHED TRIGGERS

117 AT TRG ATxx
NNNNNNNN

Indicates which of the voltage level triggers will be activated for a maintained duration with this Alarm Type. The triggers are selected by placing a Y in the appropriate trigger position. The triggers sit normally at 0V and upon activation go to 12V, with 25mA available current.

The FORWARD (INSTANT) and BACKWARD (CODE) keys will move the cursor position to the desired trigger position, which indicates the trigger number. The TOGGLE (O) key will change the Yes/No status of the trigger.

RELAY 1 (BELL) SELECT

118 RELAY 1 ATxx
NONE

Indicates the action taken for this alarm type on relay #1. Relay #1 typically will be the bell output for the panel. If a bell is not being used then the relay can be programmed for another application. The options include;

NONE
PULSED
LATCHED

NOTE: In UL Listed systems fire zones shall be programmed for PULSED bell output, burglary zones as "Latched", and silent zone types as NONE.

RELAY 2 SELECT

119 RELAY 2 ATxx
NONE

Indicates the action taken for this alarm type on relay #2. If smoke reset verification function is being utilized within the system then relay #2 will be dedicated to this application and the relay type should be NONE.

Relay #2 can be used for purposes other than smoke detector reset if question 047 is disabled and there are no zones programmed with a zone type specifying smoke detectors (question 132).

The options include:

NONE
PULSED
LATCHED

Press the O key to toggle between the available choices.

NOTE: If desired both relays can be selected for a specific alarm type and the timeout selected will be used for both relays.

After completion of this question the system will return to question 105 with the next sequential alarm type. After completion of the last alarm type (alarm type 16) the display will advance to question 120.

NOTE: For UL Listed systems this option shall be programmed "NONE".

8.7 TROUBLE TYPES

The XL-4 system differentiates between fault (or NOT READY) conditions and troubles. Troubles are latched conditions and require entry of a valid user code or the reset function to clear. In addition troubles can be defined to transmit signals to the Central Station, and activate relays or triggers much like an alarm conditions.

System faults will clear as the condition clears. For example, if the system is disarmed and a non 24 hour zone is activated (door or window opened) the keypad will display the NOT READY condition. For an LED display this means the zone indicator light solidly on, and on an LCD display English text showing which zone is not ready. In either case, the indication will disappear when the door or window is closed. After all faults are removed the system is READY.

Troubles, on the other hand, are latched conditions and require entry of a valid user code or the reset function to clear. In addition troubles can be defined to transmit signals to the Central Station, and activate relays or triggers much like an alarm condition. Typically troubles will be used for applications which have a trouble condition which requires annunciation such as Fire Trouble, or Foil Break.

Trouble types are used to define the reporting codes and characteristics for different trouble conditions. Each zone definition will define the physical parameters which constitute the trouble condition as questions 153 & 154. In addition each zone will specify a Trouble Type.

NOTE: The TROUBLE Type questions below display the TROUBLE Type number as TRBx where x will be the actual Trouble Type from 1-8.

SELECT TROUBLE TYPE

120 SEL TRB TYPE
_ 0 =SKIP

This display requests the Trouble Type that you want to access. The valid choices are 1-8 and an entry of 0 will skip the Trouble Type questions and proceed to the zone definitions.

After completion of the last question of the Trouble Type sequence this display will appear with the next sequential Trouble Type as the selected value.

TROUBLE TYPE DESCRIPTION

121 DESCR TR x

The Trouble Type descriptions are used to provide English language text on the first line of the LCD keypad. The descriptions are not transmitted to the Central Station.

Enter up to a ten character description to be associated with this Trouble Type. If the system contains an LCD display then this description will appear on the first line of the display when a trouble condition has activated.

Examples of Trouble Type descriptions might include FIRE TRB, TROUBLE, LOW BATTERY, SYS ERROR, etc. The Trouble Type description should apply to the general condition rather than the specific zone. The second line of a trouble display on an LCD keypad will contain the sixteen character zone description entered in question 135. An explanation of how to enter text through the LCD display can be found in section 2 of this manual.

TROUBLE TYPE CENTRAL STATION CODE

122 CS CODE TR x
_ (0 - F)

Indicates the code transmitted to the Central Station for this Trouble type. The placement of the code in the transmission depends on the Central Station receiver format selected.

The XL-4 can transmit to two separate Central Stations and these two receivers can have different formats. **NOTE:** For all 2 digit reporting formats (3x1 partial or ext., 4x1 partial or ext., 3x2, and 4x2) this represents the first of the 2 digits. The second digit is the respective cs code, ex: zone cs code, low batt cs code, etc. In a standard format (3x1 or 4x1) this code is **not** used. The only code is the respective cs code, ex: zone cs code, low batt code, etc.

The following examples are provided for the different formats for transmissions of alarm conditions:

POINT ID FORMAT

Not Applicable . If the point ID format is selected the trouble type code will be ignored. **NOTE:** The system will transmit the troubles as a condition code 300 followed by the zone number.

STANDARD

Example:

123 T

where T =Trouble Type CS code

The value entered for the Trouble Type CS code (question #122) will **not** be used.

EXTENDED

123 T

TTT Z

where: T =Trouble type CS Code and Z is the CS code contained in the zone definition (question 136).

NOTE: This format can contain either three or four digits within the account number.

PARTIAL EXTENDED

123 T

TTT Z

where: F =Trouble type CS Code and Z is the CS code contained in the zone definition (question 136).

NOTE: This format can contain either three or four digits within the account number. The partial extended format transmits a single round signal for alarm conditions and an expanded format for trouble conditions.

4x2

1234 TZ

where: F = Alarm type CS code and Z is the CS code contained in the zone definition (question #136).

FBI Superfast Format 4x3x1

1234 TZTZ

where: T =Trouble type CS code and Z is the decimal equivalent (00-16) of the zone CS code (question #136).

TROUBLE TYPE RESTORE CODE

123 CS REST TR x
_ (0 - F)

Indicates the restore code transmitted for this trouble type. Enter the value 0 - F. This value will be the first digit designation for extended and 4x2 formats. **NOTE:** The restore code does not apply to point ID format.

TROUBLE TYPE CS TRANSMISSION PATH

124 CS REP TR x
CS#1 ONLY

Specifies to which Central Station number this trouble type will be transmitted. The options are:

CS#1 ONLY	Primary rec. only
CS#2 ONLY	Secondary rec. only
CS#1 & CS#2	Both receivers always
CS#1 BU CS#2	CS#1 backed up by CS#2
CS#2 BU CS#1	CS#2 backed up by CS#1
NONE	No Trouble transmissions

Press the 0 key to toggle between the available choices.

NOTE: For UL Listed systems this must **not** be programmed as NONE.

TROUBLE TYPE DIALER DELAY

125 DIAL DL TR x
YES

Indicates whether the dialer delay specified in the System Timing questions (#066) should be used for this Trouble Type. If dialer delay option =NO then this trouble condition will activate the dialer immediately after the condition occurred.

NOTE: For UL Listed systems this option shall be programmed "NO".

TROUBLE TYPE BELL DELAY

126 BEL DL TRBx
YES

Indicates whether the system bell delay (question #065) should be used for this trouble type. If bell delay =NO then this trouble condition will immediately activate the bell (relay #1). The type of bell output is indicated in question 131.

TROUBLE TYPE TIMEOUT SELECT

127 TIMEOUT TR x
___ (1-3)

Indicates which of the three system bell cutoff timeout periods applies to this Trouble Type. This applies to the relay actions programmed in questions 131& 132. The actual bell cutoff times are programmed in questions 074 - 076. Enter the desired cutoff timer (1 2 or 3).

PRIORITY SELECTION

128 PRIOR TR x
___ (0 -F)

Indicates the processing priority for this trouble condition relative to other events for dialing purposes. 0 =Highest priority, F =Lowest priority.

TROUBLE TYPE MOMENTARY TRIGGERS

129 MOM TRG TR x
NNNNNNNN

Indicates which of the voltage level triggers will be activated for a momentary time duration for this Trouble Type. Triggers 1 - 8 are active high, they normally sit at 0V and upon activation go to 12V, with 12.5mA maximum available current.

The FORWARD (INSTANT) and BACKWARD (CODE) keys will move the cursor position to the desired trigger position, while the TOGGLE (O) key will change the Yes/No status of the trigger.

TROUBLE TYPE LATCHED TRIGGERS

130 LAT TRG TR x
NNNNNNNN

Indicates which of the voltage level triggers will be activated for a maintained duration with this Alarm Type. The triggers are selected by placing a Y in the appropriate trigger

position. Triggers 1 - 8 are active high, they normally sit at 0V and upon activation go to 12V, with 12.5mA maximum available current.

The FORWARD (INSTANT) and BACKWARD (CODE) keys will move the cursor position to the desired trigger position, while the TOGGLE (O) key will change the Yes/No status of the trigger.

TROUBLE TYPE RELAY 1 (BELL) SELECTION

131 RELAY 1 TR x
NONE

Indicates the action taken for this Trouble Type on relay #1. Relay #1 is typically the bell output. If a bell is not used then relay #1 can be utilized for another application. The options include:

NONE
PULSED
LATCHED

Press the 0 key to toggle between the available choices.
NOTE: For UL Listed systems this option shall be programmed "NONE".

TROUBLE TYPE RELAY 2 SELECT

132 RELAY 2 TR x
NONE

Indicates the action taken for this Trouble Type on relay #2. Relay #2 is typically used for smoke detector reset as defined in question 046. If smoke detector reset from the control panel is not utilized then the relay can be utilized for other applications . The options include:

NONE
PULSED
LATCHED

Press the 0 key to toggle between the available choices.
NOTE: For UL Listed systems this option shall be programmed "NONE".

After completion of this question the Trouble Type selection question (#120) will appear with the next trouble type as the selected value. The only exception to this situation is after trouble type 8 , and the display will advance to question 133.

To advance to any other programming question press * STAY followed by the desired question number.

8.8 ZONE DEFINITION

The Zone definition section describes the attributes of the zones connected to the XL-4 panel.

The XL-4 control panel can be expanded using two methods of zone expansion: hardwired expander (model 7105), or multiplex expansion module (model 7120). The zones are numbered as follows:

Zones 1 - 8 Hardwired Zones on control panel

Zones 9 - 16 Hardwired expansion zones (through 7105 expander)

Zones 9 - 72 Multiplex expansion zones (through 7120 module).

Each display contains a different zone attribute question. The zone number being defined is indicated by the Zxxx notation, in the right hand corner of the first line of the display.

IMPORTANT NOTES FOR MULTIPLEX ZONES

1- The zone numbers must be set within the multiplex device. This typically involves setting of dip switches, consult the Installation Instructions for these devices for further information.

2- Do not duplicate zone numbers of multiplex accessories. **NOTE:** The multiplex accessories for multiple points (2 point and 8 point modules) will contain switch settings for the starting address of the device. For example, an eight zone module set with a starting address of 9 will cover zones 9 - 16. This means that there should not be other devices within the system within this range.

3- There are two separate methods to determine the points (zones) connected to the multiplex bus. The options are described in the zone expansion module question # 032.

MUX EXPANDER 1 is an auto scan mode where the system will read the multiplex buss and determine the valid addresses present upon reset (powerup or exit from programming). Using this method it is necessary to define the zone numbers for each multiplex point. In addition the points must be physically connected to the bus and operational at the time of reset. If adding additional points to the buss it is necessary to define the points within the programming sequence then exit programming to cause the system to read the buss and recognize the points. **NOTE:** If the multiplex buss or any module is disconnected and the panel is reset, the respective zones will not be identified. As a result, multiplex zones are not supervised by this method. This method should be selected only to confirm the address settings on multiplex modules because it identifies only the connected zones upon reset.

The second method (**MUX EXPANDER 2**) relies on the zone definitions to determine the points connected to the multiplex bus. An active point on the multiplex buss will be any point (zone 9 - 72) which contains any condition that will cause either an alarm or trouble condition on open or short. Also, the point must be connected for it to be an active zone.

In order for a zone to be inactive then questions 149 - 152 must all be answered as NO. **NOTE:** If the multiplex buss or any module is disconnected and the panel is reset, the respective zones will be identified as missing. As a result, multiplex zones are supervised by this method. This method should always be selected.

SELECT ZONE NUMBER

133 SEL ZONE
000 =SKIP

The zone selection display requests the zone number to be defined. Enter the zone desired for modification (001 - 072) based on the zone numbers indicated above. To skip the zone definition questions entirely enter 000. Upon completion of the programming questions for a particular zone, the selection display will reappear with the next sequential zone number as the current value.

NOTE: If the zone multiplex adapter has not been enabled (question 031) then zone numbers greater than 16 are not applicable.

ZONE TYPE

134 ZN TYPE Zxxx
INSTANT

Indicates the zone type with the following options:

Instant
Exit/Entry
Interior EE Follower
Interior
Fire- Smoke
Fire - Pull Station
Keyswitch

NOTES:

FIRE-SMOKE - This zone type is used to define a conventional or multiplex smoke detector. The smoke detector will adhere to the Fire Verification and Reset logic. If the smoke detector is an integrated multiplex device then it will obtain its reset signal through the multiplex bus. If the smoke detector is connected to a hardwired zone or through a multiplex adapter then Relay #2 will be used for the smoke power reset.

FIRE-PULL STATION - This type should be used for a fire device such as a pull station which does not require verification and reset logic. This zone type is not permitted in UL Listed systems.

KEYSWITCH - This type will be used for a keyswitch arming. **NOTE:** Keyswitches are not permitted for use with UL Listed systems.

ZONE DESCRIPTION

135 DESCR Zxxx
BOBS BEDROOM

Enter up to sixteen characters as a description for this zone. Zone descriptions will appear on the second line of an LCD keypad when a condition from this zone has activated. This description will appear for alarms, troubles, bypasses and NOT READY conditions for this zone. The zone description should probably contain the location or purpose of the zone.

Note: An explanation of how to enter text through the LCD display can be found in section 2 of this manual.

CS REPORTING CODE

136 CS CODE Zxxx
000 - 255

Indicates the code transmitted to the Central Station for this zone. The method that the code is transmitted to the Central Station depends on the format selected (questions 004 and 009). Enter the desired zone code from 000 - 255.

If the desired code to be transmitted to the Central Station should be a hex code then that code must be entered in decimal as follows: A=010, B=011, C=012, D=013, E=014, F=015. For example, if you wish to transmit a C as the zone code, enter 012 into this programming question.

NOTE: For all 2 digit reporting formats (3x1 partial or ext., 4x1 partial or ext., 3x2, and 4x2) this represents the second of the 2 digits. The first digit is the Alarm Type CS code. In a standard format (3x1 or 4x1) this zone code is the only one reported. The following examples are provided for the different formats for transmissions of **alarm** conditions:

POINT ID FORMAT

OVERALL FORMAT - ALARM CONDITIONS
SSSS 18 1XYZ GG CCC

where: **SSSS** =Account Number

18 =Point ID Format Code (Fixed)

1 =Indicates a new event (alarm)

XYZ =PID Event Code (question 135)

GG =Group (partition number 01 - 08)

CCC =Zone number (this question)

The three digits entered will be the zone identifier (sometimes referred to as sensor ID within the point ID terminology). Typically, this will reflect the physical zone number of the point or device. Enter the desired value in decimal format (example zone 62 =062).

STANDARD

Example:

123 Z

where **Z** =Zone CS code

The value entered for the Alarm Type CS code will not be used. Enter the desired zone CS code in decimal format.

For example to transmit a code of 3 enter 003. If your receiver supports reporting digits in hex, and you wish to transmit a hexadecimal code, then enter the decimal equivalent (example B =011).

EXTENDED

123 A

AAA Z

where: **A** =Alarm type CS Code (question #104) and **Z** is the zone CS code. If the condition will initiate a trouble signal then the "A" will originate from the Trouble Type entered in question #120.

NOTE: This format can contain either three or four digits within the account number.

Enter the desired zone CS code in decimal format. For example to transmit a 6 enter 006. If your receiver supports reporting digits in hex, and you wish to transmit a hexadecimal code, then enter the decimal equivalent (example B =011).

PARTIAL EXTENDED

123 Z

where: **Z** =Zone CS code. The Alarm Type CS code is not used for this format.

The partial extended format transmits a single round signal for alarm conditions and an expanded message for system conditions such as openings closings, troubles etc.

NOTE: This format can contain either three or four digits within the account number. Enter the desired zone CS code in decimal format. For example to transmit a 6 enter 006. If your receiver supports reporting digits in hex, and you wish to transmit a hexadecimal code, then enter the decimal equivalent (example B =011).

4x2

1234 AZ

where: **A** =Alarm type CS code (question #105), or trouble type code (question 120), and **Z** is the zone CS code. Enter the desired zone CS code in decimal format. For example to transmit a 6 enter 006. If your receiver supports reporting digits in hex, and you wish to transmit a hexadecimal code, then enter the decimal equivalent (example B =011).

FBI Superfast Format 4x3x1

1234 AZZA

where: **A** =Alarm type CS code (question #107), or Trouble Type code (question #122). The desired zone CS code (displayed above as ZZ) should be entered in decimal. For example, a desired zone code of 71 should be entered as 071. The control panel will translate the zone number into its hex equivalent, and the English language printout of the CP220 receiver will display the correct zone number in decimal format.

ZONE PID TYPE (PID FORMAT)

137 CS PID ZNxxx
___ 001 - 422

This question only applies when using the ADEMCO PID format. The Point ID format transmits an event code value known as the PID code. This identifies the type of condition being reported from the zone. This differs from the zone number and is defined in a fixed table of event codes. Within the description of the Point ID format this typically is shown as XYZ (event code). This event code will provide fixed text at the FBI CP220 or ADEMCO 685 receiver and many Central Station Automation Systems.

Enter the three digit number (001 - 422) corresponding to the desired event type. If an invalid selection is made the keypad will not accept the input. The valid event codes are displayed below:

CHART A - Zone PID Event Codes

ALARMS

100 Medical
101 Pendant Transmitter

110 Fire Alarm
111 Smoke
112 Combustion
113 Water Flow
114 Heat
115 Pull Station
116 Duct
117 Flame
118 Near Alarm

120 Panic Alarm
121 Duress
122 Silent
123 Audible
130 Burglary
131 Perimeter
132 Interior
133 24 Hour (Safe)
134 Entry/Exit
135 Day/Night
136 Outdoor
137 Tamper
138 Near Alarm
140 General Alarm

150 24 Hour Non Burg
151 Gas Detected
152 Refrigeration
153 Loss of Heat
154 Water Leakage
155 Foil Break
156 Day Trouble
157 Low Bottled Gas Level
158 High Temperature

159 Low Temperature
161 Air Flow Loss

SUPERVISORY

200 Fire Supervisory
201 Low H2O Pressure
202 Low CO2
203 Gate Valve Sensor
204 Low Water Level
205 Pump Activated
206 Pump Failure

TROUBLES

300 System Trouble

310 Ground Fault
320 Sounder/Relay Trouble
321 Trbl Bell 1
322 Trbl Bell 2
323 Trbl Alarm relay
324 Trouble Relay
325 Reversing Relay
330 System Peripheral
350 Communication Trbl
351 Telco Fault 1
352 Telco Fault 2
355 Loss of Radio Supervision
370 Protection Loop
373 Fire Trouble
380 Sensor Trouble

O/C/REMOTE ACCESS

409 Keyswitch O/C
421 Access Denied
422 User Access Gained

RIGHT LOOP (MULTIPLEX ZONES ONLY)

138 RT LOOP ZN xxx
NO

This question only applies to multiplex points which are part of the two point multiplex adapters. Each two point module contains a left loop and a right loop. The address set on the dip switches of the device will be the zone number of the left loop, and the right loop will be the next sequential zone number. For example, if the module is set with an address of 22 then the left loop will be zone number 22 and the right loop will be zone 23. Left loops can be EOL supervised, while right loops are not EOL supervised. Press the 0 key to toggle between the available choices.

If the zone is a right loop within a two point multiplex adapter module then answer YES to this question.

ZONE BYPASS ENABLE

139 EN BYP Zxxx
YES

Indicates whether this zone is bypassable. Zone bypassing can be performed by an authorized user from the keypad or from a remote programming device. Bypasses can be performed whether the system is armed or disarmed by an authorized user. Press the 0 key to toggle between the available choices.

NOTE: This location is automatically programmed "NO" for fire zones.

AUTO BYPASS OPTION

140 AUTO BY Zxxx
NO

The auto bypass mode allows the zone to be automatically bypassed when the system is armed in the AWAY mode and the entry zone has not been violated. This option allows selected zones to be automatically bypassed without having to manually bypass the zone. This option could be used for interior zones to have selected zones bypassed while remaining in the location. Press the 0 key to toggle between the available choices.

NOTE: This location automatically programmed "NO" for fire zones.

ARM FAULTED

141 ARM FLT Zxxx
NO

This option allows the system to be armed even if the zone is not ready. For example, if the front door is open normally the user would be unable to arm the system because the system is not ready. If this option is selected for the front door, then the system can be armed while the zone is violated, however the door must be returned to normal status by the end of the exit time period. This option can be selected for Exit/Entry or Interior EE follower zones only. The zone must restore to normal after the exit time. Press the 0 key to toggle through the available choices.

FORCE ARM FAULTED

142 EN VENT Zxxx
NO

This option will allow the system to be armed even if this zone is faulted. If selected, the system will be armed and the zone will be bypassed. Effectively this option will perform a forced arming of the system without the need to enter the forced arming commands.

For example, if the location has a window that they normally leave open, this option will allow system arming even if the window is open. If the zone is faulted at the time of arming it will be bypassed.

NOTE: This shall be programmed as "NO" in UL Listed systems. Press the 0 key to toggle between the available choices.

GROUP ENABLE

143 GRP ENAB
NO

This question indicates whether this zone is part of a group. Grouping allows multiple zones within the same partition to be grouped together for bypassing and alarm transmission purposes. The group number will be determined by the alarm type, or trouble type if there is no alarm condition. For example, the zones defined as part of a group utilizing alarm type 3 will be known as group 3. The zones within group 3 will include all zones within the same partition that have the same alarm type (or trouble type) and have the group enable question answered as yes. There can be up to 24 groups per partition (16 alarm types plus 8 trouble types).

Group bypasses can be performed through the command: **BYPASS [USER] * 1 [GRP #]** where [GRP #] is the group number 01 - 24.

Group unbypasses can be performed through the command: **BYPASS [USER] * 2 [GRP #]** where [GRP #] is the group number 01 - 24.

Quick group bypass can be performed if the group bypass function has been enabled (see question 056). [# 5 * 1 group#]

Alarms will only be transmitted for the first zone within the group that goes into alarm. Subsequent alarm conditions from other zones within the group will not transmit to the CS. Local conditions such as keypad display, keypad sounder and bell output will occur as per programming and all individual activity will enter the system log.

Restores for groups will only be transmitted after all of the zones within the group have restored. In addition, the restore code will be transmitted for the first zone number in the group that went into alarm.

ZONE TROUBLE ENABLE

144 CS TRB Zxxx
YES

Indicates whether this zone reports trouble conditions to the CS. Press the 0 key to toggle through the available choices.

NOTE: For UL Listed systems this shall be "YES".

ZONE CS RESTORE ENABLE

145 CS REST Zxxx
YES

Indicates whether this zone should transmit restore signals to the Central Station. If restores are transmitted then they will be handled as follows based on the type of CS format (questions 004 & 009). Press the 0 key to toggle through the available choices.

NOTE: For UL Listed systems this shall be programmed as "YES".

POINT ID FORMAT - RESTORES

Restores will be transmitted as follows:

SSSS 18 3XYZ GG CCC

where: **SSSS** =Account Number

18 =Point ID Format Code (Fixed)

3 =Indicates a new restore

XYZ =PID Event Code (Question 1357)

GG =Group (partition number 01 - 08)

CCC =Zone (contact) number (Question 1346)

FBI Superfast Format 4x3x1

1234 AZZR

where: **A** =Alarm type CS code (question #107) for this zone

ZZ =The zone CS code which identifies the zone number (defined in question 137)

R =Restore code (question #108) defined for the alarm type programmed for this zone.

This format identifies a restore by the zone number and type of alarm.

STANDARD

Example:

123 R

where **R** =Restore code defined for the alarm type of this zone (question #108)

The value entered for the Zone CS code (question #136) will not be used.

EXTENDED

123 R

RRR Z

where: **R** =Restore Code (question #108) and **Z** is the zone CS code(question #136).

NOTE: This format can contain either three or four digits within the account number.

PARTIAL EXTENDED

123 R

RRR Z

where: **R** =Restore Code (question #108) and **Z** =Zone CS code (question #136).

The partial extended format transmits a single round signal for alarm conditions and an expanded message for system conditions such as openings closings, troubles etc.

NOTE: This format can contain either three or four digits within the account number.

4x2

1234 RZ

where: **R** =Restore code (question #108) and **Z** is the zone CS code (question #136).

PARTITION SELECTION

146 PART Zxxx
(1-8)

Indicates the partition assignment for this zone. Each zone can be defined to only one partition. If the panel has been setup as a single partition then all zones should be assigned to partition number 1.

NOTE: For UL Listed systems, all zones shall be in partition 1.

ZONE 24 HOUR ALARM

147 EN 24AL Zxxx
NO

Indicates whether the alarm portion of this zone should be active 24 hours a day regardless of the arming status of the panel. **NOTE:** This question should be answered YES for either a keyswitch, smoke detector or other fire circuits. For UL Listed systems, fire zones must be programmed as 24 hour zones. Press the 0 key to toggle through the available choices.

ZONE 24 HOUR TROUBLE

148 EN 24TR Zxxx
NO

Indicates whether the trouble portion of this zone should be active 24 hours a day regardless of the arming status of the panel.

NOTE: Audible Trouble can only be silenced by entering a valid user code (sounder does **not** follow zone restoral).

For UL Listed systems, fire zones must be programmed as 24 hour zones. Press the 0 key to toggle through the available choices.

ZONE ALARM TYPE

149 AL TYPE Zxxx
_(01-16)

Specifies the Alarm Type for this zone. The Alarm Type defines the conditions that should occur when this zone goes into alarm. The alarm types are described as questions 105 - 119.

ZONE TROUBLE TYPE

150 TRB TYP Zxxx
_(1-8)

Specifies the Trouble Type for this zone. The Trouble Type defines the conditions that should occur if this zone goes into trouble. If the zone does not have a trouble condition as specified in questions 149 and 150 then the value placed in this field will be ignored. The trouble types are defined in questions 120 - 132.

ZONE ALARM ON OPEN

151 AL OPEN Zxxx
YES

Indicates whether this zone activates an alarm condition on an open circuit. This question will depend on the sensing characteristics of the device connected to this zone. For example, this should be answered as NO for a keyswitch, and NO for a smoke detector.

NOTE: For UL Listed systems, fire zones shall be "NO". Press the 0 key to toggle through the available choices.

ZONE ALARM ON SHORT

152 AL SHRT Zxxx
YES

Indicates whether this zone activates an alarm condition on a short circuit. This question will depend on the sensing characteristics of the device connected to this zone. For example, this should be answered as YES for a keyswitch, and YES for a smoke detector.

NOTE: For UL Listed systems, fire zones shall be "YES". Press the 0 key to toggle through the available choices.

ZONE TROUBLE ON OPEN

153 TR OPEN Zxxx
NO

Indicates whether this zone activates a trouble condition on an open circuit. This question will depend on the sensing characteristics of the device connected to this zone. For example, this should be answered as NO for a keyswitch, and YES for a smoke detector.

NOTE: For UL Listed systems, fire zones shall be "YES". Press the 0 key to toggle through the available choices.

ZONE TROUBLE ON SHORT

154 TR SHRT Zxxx
NO

Indicates whether this zone activates a trouble condition on a short circuit. This question will depend on the sensing characteristics of the device connected to this zone. For example, this should be answered as NO for a keyswitch, and NO for a smoke detector. Press the 0 key to toggle through the available choices.

ZONE EXIT DELAY

155 EXT DEL Zxxx
DELAY #1

Specifies which of the system exit delay times should be used for this zone. The TOGGLE (0) key will switch between DELAY1 & DELAY2. The duration of the exit delays are defined in questions 67 & 68.

NOTE: This question is only used if the zone type is an Exit/Entry or Interior EE follower.

ZONE ENTRY DELAY

156 ENT DEL Zxxx
DELAY #1

Specifies which of the system entry delay times should be used for this zone. The TOGGLE (0) key will switch between the two values. The duration of the delays are defined in questions 69 - 70.

NOTE: This question is only used if the zone type is an Exit/Entry or Interior EE follower.

ZONE LOCKOUT ENABLE

157 EN LOCK Zxxx
YES

Indicates whether this zone participates in either bell or dialer lockout. If YES then the various lockout information defined in questions 77 - 80 will be used for this particular zone. Lockouts shall be disabled in UL Listed applications.

CS BYPASS

158 CS BYP Zxxx
NO

Indicates whether this zone will transmit a bypass code to the Central Station.

ZONE BUZZER ON TROUBLE

159 TRB BUZ Zxxx
YES

Indicates whether the keypad buzzer (sounder) will be active upon a trouble condition. If YES the trouble buzzer will be activated at all keypads within the partition where this zone has been defined.

In order to silence the trouble buzzer it is necessary to enter a valid user code or perform the RESET (*) command

(based on the question 048). Press the 0 key to toggle through the available choices.

NOTE: In UL Listed systems, fire zones must be programmed as YES.

ZONE CHIME ENABLE

160 EN CHME Zxxx
NO

Specifies whether this zone should activate the chime feature. If the chime mode is enabled then this particular zone will activate the chime audible signal at the keypad every time the zone is faulted. This will occur only when the system is disarmed. Press the 0 key to toggle through the available choices.

ZONE 750MS RESPONSE (HW Zones Only)

161 EN 750M Zxxx
YES

Indicates whether this zone has 750 millisecond response. If not enabled, the normal zone response is approximately 250 milliseconds.

NOTE: This question only relates to hardwired zones (either the first 8 zones on the control panel or the eight additional zones available through the 7105 zone expander module. Press the 0 key to toggle through the available choices.

ZONE PULSE COUNT TIME

162 PUL CT Zxxx
(MINUTES)

The zone pulse count feature can be configured to require that this individual zone undergo a certain number of activations (debounces) within a defined time period before an alarm condition is tripped. Enter the time in minutes. A value of 15 indicates that the feature is disabled for this zone. Default value = 15.

NOTE: For UL Listed systems this must be programmed as "15".

ZONE PULSE COUNT NUMBER

163 # PULSE Zxxx
(00-15)

Enter the number of transitions or pulses that are required for this zone within the time period defined above to activate an alarm condition. A value of 00 indicates that the each transition triggers an alarm condition. **Default value = 00.**

After answering the last zone question the system will return to the select zone number question #133. The zone number will automatically be incremented to the next zone or you can enter the desired zone. To proceed to a question other than the Zone Attributes, press the * key followed by the STAY key and the desired three digit question number.

8.9 KEYPAD CONDITIONS

In addition to the physical hardwired zone alarm conditions, (both hardwired and multiplex) there are four conditions which can be user activated directly from the keypad. The keypad initiated conditions will react as defined within this section based on the partition assignment of the keypad where the condition is activated.

The keypad conditions can be initiated as follows:

CONDITION	KEYPAD SEQUENCE
1	* + #
2	* + 1
3	3 + #
4	DURESS SIGNAL

The Duress condition will be activated upon entry of any user code with an authorization level of 6. See question 026 for user authorization levels.

If any of the keypad conditions are defined then they will be active at all keypads and partitions throughout the system.

SELECT KEYPAD FUNCTION

164 SEL KPAD TYP
_ 0 = SKIP

This question indicates the desired keypad function to be modified. Entry of 0 will skip to the next group of questions. The keypad functions can be configured to meet the needs of each installation for conditions such as FIRE, PANIC, AUXILIARY, etc.

KEYPAD CS CODE

165 CS CODE Kxxx
_ 000 - 255

Indicates the code transmitted to the Central Station when this keypad condition is activated. Enter the value in decimal for the desired code transmitted to the CS. The value Kxxx displays the keypad condition number being modified. This CS Code is similar to the zone code and will follow the examples provided in the zone section (see question 134).

KEYPAD PID CODE

166 CS PID KP#x
_ 000 - 422

If either of the CS formats selected is PID (point ID) format then enter the event code to be transmitted for this keypad condition. Consult the PID event code chart (see question number 137) for the valid event codes. The value must be in the range 000 - 422.

KEYPAD CONDITION DESCRIPTION

167 DESCR KP#x

Indicates the description associated with the keypad condition. This sixteen character description will appear on the second line of an LCD display when the condition is activated. The first line of the display will originate from the alarm or trouble type description.

ALARM TYPE

168 AL TY KP#x
__ 01-16

Enter the alarm type to be used for this keypad function. This defines the characteristics for this keypad function to follow upon activation.

NOTE: Special care should be made when selecting these alarm types since many of the keypad conditions may require special handling such as no bell or no display etc.

ENABLE RESTORE

169 CS REST KP#x
YES

Indicates whether the keypad condition is restorable. If the condition is restorable then the system reset command from the keypad will restore the condition. The reset condition is either the entry of a valid user code, or the *key as specified in question 048.

8.10 PARTITIONS

This section of the Installer Programming sequence assigns the keypads to the partitions. The XL-4 panel can accommodate up to sixteen keypads consisting of eight LCD and eight LED keypads. Each partition can handle multiple keypads, however each keypad can be assigned to only one partition. If the panel is set up in a non partitioned configuration, then all active keypads should be assigned to partition number 1. Keypad numbers 1-8 are LED keypads, while the LCD keypads are known as 9- 16.

Each partition display will contain sixteen indicators reflecting whether that keypad has been assigned to the partition. Entry of a Y indicates that the keypad belongs to the partition while an N indicates that the keypad does not belong. Note: Whenever a keypad is assigned to a partition it will be removed from any previously defined partition.

PARTITION SELECTION

170 SEL PART #
__ 0 SKIP

Enter the desired partition number for keypad definition. To skip the partition questions enter 0. If the system has been configured as a non-partitioned panel then select partition 1.

KEYPAD ASSIGNMENT PARTITION

171 KPAD PART x
NNNNNNNNNYNNNNNNN

Enter the keypad assignment for the partition number indicated by x. To access each of the sixteen keypads within the partition use the FORWARD (INSTANT) and BACKWARD (CODE) keys and the TOGGLE (O) key will change the Yes/No status of each keypad. Remember, keypads 1-8 are LED while keypads 9-16 are LCD.

WARNING: If you intend on performing keypad programming you **must** have at least one LCD keypad assigned to the system even if the configuration does not contain any LCD keypads.

NOTE: For UL Listed systems, all keypads must be assigned to a single partition, the same partition as the zones and user codes.

PARTITION DESCRIPTION

172 DESCR PARTx

A sixteen character description can be entered for each partition. This allows customization for each installation. This description will appear on the second line of the SYSTEM READY display of LCD keypads. Examples could include SMITH RESIDENCE, or STOCK ROOM #3, etc.

PRIMARY CS ACCOUNT NUMBER

173 CS1 ACC P # _

Enter the account number to be reported to CS#1 (Question #3). The portion of the display labeled P# indicates the partition number being entered.

The account numbers can be up to four digits. If a three digit account number is desired then enter XXXb, where XXX is the desired three digit account number followed by a blank (depression of the SHIFT key followed by the 8).

If the partition should not report to CS#1 then enter a blank account number. To erase an existing account number position the cursor on the first digit and depress the SHIFT (*) key followed by the 8 key.

Valid entries for the account number question includes the digits 0-9 and A-E (SHIFT 1 - SHIFT 6). Enter the account number exactly the way it would be seen at the receiver.

NOTE: The programming sequence accepts entry of both 0 and A as valid account number digits. Depending on the format transmitted some of these digits may not be valid. Consult your Central Station Manager to determine the valid digits accepted by your receiver for the format transmitted.

SECONDARY CS ACCOUNT NUMBER

174 CS2 ACC P# _

Enter the account number to be reported to CS#2 (Question #8). The portion of the display labeled P# indicates the partition number being entered.

The account numbers can be up to four digits. If a three digit account number is desired then enter XXXb, where XXX is the desired three digit account number followed by a blank (depression of the SHIFT key followed by the 8).

If the partition should not report to CS#2 then enter a blank account number. To erase an existing account number position the cursor on the first digit and depress the SHIFT key followed by the 8 key.

Valid entries for the account number question includes the digits 0-9 and A-E (SHIFT 1 - SHIFT 6). Enter the account number exactly the way it would be seen at the receiver.

NOTE: The programming sequence accepts entry of both 0 and A as valid account number digits. Depending on the format transmitted some of these digits may not be valid. Consult your Central Station Manager to determine the valid digits accepted by your receiver for the format transmitted.

8.11 AUTO DUMP PARAMETERS

The XL-4 contains a system log feature which stores the past 128 events which have occurred in time sequence. This log can be viewed at the keypad by an authorized installer, retrieved through the EZ-Mate PC Downloader, or transmitted to a remote serial printer and modem and to local serial printer through the addition of the 7130 Serial Printer Interface.

The transmission of the information to a remote or local printer is known as the Auto Dump Feature. This feature can be used for locations that require a printed record of system activity. This Auto Dump feature is in addition to any signals transmitted to the Central Station.

The Auto Dump feature will transmit the system log information to a remote printer located at the DUMP phone number (see question # 002) and also . If this number is blank then the Remote Auto Dump feature has not been selected but the Local Auto Dump feature is still enabled. The DUMP phone number can be located at the Central Station, Alarm Company or any location with a modem and printer. The Dump phone number can vary from account to account.

The Auto Dump feature can be programmed to transmit automatically upon either of the following conditions:

- DAILY
- WEEKLY
- MONTHLY

NOTE: If many of your customers utilize the Auto Dump feature then it is important to stagger their transmission times especially if they all transmit to the same Dump telephone number.

The auto-dump feature will require the installation of dedicated equipment at the auto dump location for receiving and printing the log dump information. This equipment includes:

MODEM - 300 Baud, 8 data bits 1 stop bit, auto-answer. Since this modem will be connected directly to the telephone line and may be unattended, the modem parameters should be selectable through the modem (example dip switches).

PRINTER - SERIAL printer capable of operation at 300 Baud, 8 data bits, 1 stop bit

In addition the system log information can be transmitted to a local serial printer through addition of the 7130 Serial Printer Interface module. The Local Auto Dump feature can be disabled in question #175. If the local printer feature is used, then the printer will activate using the frequency specified within the programming sequence.

NOTE: The Auto Dump feature has not been tested by Underwriters Laboratories Inc.

AUTO DUMP TYPE

175 AUTO DUMP
NONE

This question selects the type of auto dump (both remotely and locally). The options include:

NONE
DAILY
WEEKLY
MONTHLY

Press the 0 key to toggle through the available choices.
NOTE: This relates to either the local or remote transmission.

DAY OF MONTH

176 DAY OF MONTH
01 (01 - 31)

If the Auto Dump type is monthly, then this question will specify the day of the month that the transmission is desired. If the date selected does not exist in a particular month (example Feb. 30) then the transmission will occur on the next available day.

DAY OF WEEK

177 DAY OF WEEK
SUNDAY

If the reporting type is weekly, then this question will be asked for the desired day of the week for transmission. The TOGGLE (0) key will scroll through the days of the week from Sunday through Saturday.

HOURLY OF DAY

178 REPORT HOUR
00 (00-23)

Enter the desired hour, in military (24 hour) time for the transmission of the system log. This question will be asked if the auto dump type is monthly, weekly or daily.

MINUTE OF HOUR

179 REPORT MIN.
00 (00-59)

Enter the desired minute for the transmission of the system log. This question will be asked if the auto dump type is monthly, weekly or daily.

MEMORY DUMP - # OF EVENTS

180 DUMP MAX #EV
99 (00-99)

The optional Auto Dump feature can be triggered to transmit when the number of events stored reaches a certain level. Enter the number of events required to activate an Auto Dump.

This value can act as a threshold in the event of above average system activity. For example, an account might normally be programmed to transmit monthly activity on a

certain date and time. To suppress the automatic transmission of event history enter 00.

AUTO DUMP ACCOUNT NUMBER

181 AUTO DMP ACC
0000

Enter a four digit account number which will be sent whenever this account transmits system log information. This account number is for reference purposes only and will be printed at the top of the remote report for identification purposes.

This account number has no bearing on the account numbers transmitted to the Central Station for alarm activity.

AUTO DUMP DESCRIPTION 1

182 AUTO DMP D#1

The printer at the DUMP phone number merely answers the telephone number and prints the information which is transmitted. Provision is made for the entry of four lines of comments to be transmitted as a heading for each printout.

This description should be used to identify the account at the remote printer with information such as account name, address, special instructions, etc.

Enter the first line of descriptive information.

AUTO DUMP DESCRIPTION 2

183 AUTO DMP D#2

Enter the second line of descriptive information.

AUTO DUMP DESCRIPTION 3

184 AUTO DMP D#3

Enter the third line of descriptive information.

AUTO DUMP DESCRIPTION 4

185 AUTO DMP D#4

Enter the fourth line of descriptive information.

Refer to the STANDARD SYSTEM PROGRAMMING SUMMARY for a quick guide to programming. If you have any questions, please call our Technical Service Department at (800) 645-5430.



9. SYSTEM DEFAULTS

CS COMMUNICATIONS

001 Callback Number	NULL	013 Installer Code	123456
002 Dump Telephone Number	NULL	014 Dialing Type	TONE
003 CS #1 Rcvr. Tel. Number	234	015 Dial Tone	NO
004 CS #1 Receiver Type	FBI SUPER 2300HZ	016 CS Dialer Enable	YES
005 CS #1 ACCT # (3/4 Digit)	4 DIGIT	017 Rem. Commands Enable	YES
006 CS #1 Parity Selection	YES	018 Rem. Disarm Enable	YES
007 CS #1 Sescoa Format	NO	019 Remote Arming	YES
008 CS #2 Rcvr. Tel. Number	NULL	020 Remote Bypass	NO
009 CS #2 Receiver Type	FBI SUPER 2300HZ	021 # Attempts	08
010 CS #2 ACCT # (3/4 Digit)	4 DIGIT	022 # of Rings to Pickup	08
011 CS #2 Parity Selection	YES	023 Extended Antijam	NO
012 CS #2 Sescoa Format	NO	024 Extended Acknowledge	NO

USER ATTRIBUTES

025 Select User Number (001 - 064)

025	*	027	026	030	028	029
User	Access	User	User Auth.	User Master	User Part.	O/C Part.
Number	Code	CS ID	Level	Partition	Assignment	Enable
001	1234	001	1	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
002		002	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
003		003	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
004		004	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
005		005	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
006		006	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
007		007	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
008		008	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
009		009	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
010		010	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
011		011	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
012		012	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
013		013	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
014		014	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
015		015	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
016		016	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
017		017	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
018		018	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
019		019	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
020		020	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
021		021	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
022		022	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y
023		023	4	1	Y N N N N N N N	Y Y Y Y Y Y Y Y

NOTE: Users 024 - 064 follow similarly as Users 002 - 023.

* The User Access Code *cannot* be modified while in installer mode programming. It can be modified through User Code Programming and by the EZ-Mate Downloader Software.

SYSTEM ATTRIBUTES

031 Zone Expansion Modules	NO EXPAND	048 Enable Reset Key Function	NO
032 Open/Close CS Rep.Path	NONE	049 En. Rest. to Follow Loop	NO
033 Clock Set CS Path	NONE	050 Action on Abort	NO ABORT
034 Test CS Reporting Path	NONE	051 En. Multi Part. Mode	YES
035 Test Frequency	24 HOUR	052 Enable Quick Arming	YES
036 Test Time - Hour of Day	23	053 En. Quick Forced Arming	YES
037 Test Time - Minute of Day	00	054 Secure Forced Arm Enable	YES
038 Download Confirm Path	NONE	055 Enable Zone Directory	YES
039 Bypass Transmission Path	NONE	056 Enable Quick Bypass	YES
040 Disable Bypass on Stay	NO	057 Enable Chime Control	YES
041 Transmit Bypass on Arming	ON BYPASS	058 Enable Super User (Lev0)	YES
042 Auto Unbypass Enable	YES	059 En. Multi Part Arm/Disarm	ARM/DISARM
043 Arm Outputs Level	HIGH	060 Enab. 7 Digit User Code	NO
044 Bell Test At Arming	NO	061 CSID Inst. Default	YES
045 Bell Ringback at Closing	NO	062 Keypad Programming	YES
046 Sounder Ringback Enable	YES	063 Daylight Savings Time	NO
		064 AC Line Frequency	60HZ

SYSTEM TIMING

065 Bell Delay	01 (15 sec.)	074 Timeout #1	14 (14min.)
066 Dialer Delay	01 (15 sec.)	075 Timeout #2	15 (30min.)
067 Exit Delay #1	04 (60sec.)	076 Timeout #3	02 (6min.)
068 Exit Delay #2	04 (60sec.)	077 Global Bell Lockout	15
069 Entry Delay #1	02 (30sec.)	078 Local Bell Lockout	15
070 Entry Delay #2	04 (60sec.)	079 Global Dialer Lockout	15
071 AC Loss Delay	01 (15min.)	080 Local Dialer Lockout	15
072 Exit Triggers	YYYYYYYY		
073 Entry Triggers	YYYYYYYY		

SYSTEM FUNCTION CODES

081 Bypass Code	6	093 System Error CS. Code	254
082 Bypass Restore	E	094 Download Funt. Code	F
083 Abort Code	D	095 Download CS. Code	255
084 Opening Code	B	096 Buzzer on AC Loss	YES
085 Closing Code	C	097 Buzzer on Low Battery	YES
086 Clock Set Code	0	098 Buzzer on System Error	YES
087 Cancel Code	F	099 24 Hour AC Trouble	YES
088 Cancel Path	NONE	100 24 Hour Low Battery	YES
089 System Test Funct.Code	8	101 24 Hour System Error	YES
090 System Test CS Code	253	102 Trouble Type AC Failure	1
091 AC Loss CS Code	250	103 Trouble Type Low Battery	2
092 Low Battery CS Code	251	104 Trouble Type System Error	4

ALARM TYPES

105 Select Alarm Type (01 - 16)

106 Description

01 =FIRE !!!! 02 =EMERGENCY 03 =BURGLARY 04 =BURGLARY
05 =SIL. PANIC 06 =EMERGENCY 07 =MEDICAL 08 - 16 =SPARE

105 Alarm Types	1	2	3	4	5	6	7	8	9 - 16
107 CS Code	1	2	3	3	5	2	2	4	F
108 CS Restore Code	E	E	E	E	E	E	E	E	E
109 CS Reporting Path	CS #1	CS #1	CS #1	CS #1	CS #1	CS #1	CS #1	CS #1	CS #1
110 Bell Delay	NO	NO	NO	NO	NO	NO	NO	NO	NO
111 Dialer Delay	NO	NO	NO	NO	NO	NO	NO	NO	NO
112 Buzzer Enabled	YES	YES	YES	YES	YES	YES	YES	YES	YES
113 Display Alarm	YES	YES	YES	YES	YES	YES	YES	YES	YES
114 Timeout Selection	2	1	1	1	1	1	1	1	1
115 Alarm Priority	1	2	3	3	2	2	2	3	3
116 Momentary Triggers	NONE on all								
117 Latched Triggers	NONE on all								
118 Relay 1 Select	P	L	L	L	N	N	N	N	N
119 Relay 2 Select	N	N	N	N	N	N	N	N	N

NOTE: P =PULSED, L =LATCHED and N =NONE

TROUBLE TYPES

120 Select Trouble Type (1 - 8)

121 Description

1 =AC LOSS 2 =LOW BAT. 3 =GRND FAULT 4 =SYSTEM ERROR
5 =FIRE TRBLE 6 =TROUBLE 7 =TROUBLE 8 =TROUBLE

120 Trouble Types	1	2	3	4	5	6	7	8
122 CS Code	F	F	F	F	F	F	F	F
123 CS Restore Code	E	E	E	E	E	E	E	E
124 CS Reporting Path	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
125 Dialer Delay	NO	NO	NO	NO	NO	NO	NO	NO
126 Bell Delay	NO	NO	NO	NO	NO	NO	NO	NO
127 Timeout Selection	1	1	1	1	1	1	1	1
128 Reporting Priority	1	1	1	1	1	1	1	1
129 Momentary Triggers	NONE on all							
130 Latched Triggers	NONE on all							
131 Relay 1 Select	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
132 Relay 2 Select	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ZONE ATTRIBUTES

133 Select Zone Number (001 - 072)

<u>133 Zone</u>	<u>134 Zone Type</u>	<u>135 Description</u>
1	EXIT/ENTRY	ZONE 1
2	INT. EE FOLL	ZONE 2
3	INSTANT	ZONE 3
4	INSTANT	ZONE 4
5	INSTANT	ZONE 5
6	INSTANT	ZONE 6
7	INSTANT	ZONE 7
8	FIRE - SMOKE	ZONE 8
9	INSTANT	ZONE 9
10	INSTANT	ZONE 10
11	INSTANT	ZONE 11
12	INSTANT	ZONE 12
13	INSTANT	ZONE 13
14	INSTANT	ZONE 14
15	INSTANT	ZONE 15
16	INSTANT	ZONE 16
17	INSTANT	ZONE 17
18	INSTANT	ZONE 18
19	INSTANT	ZONE 19
20	INSTANT	ZONE 20
21	INSTANT	ZONE 21
22	INSTANT	ZONE 22
23	INSTANT	ZONE 23
24	INSTANT	ZONE 24
25	INSTANT	ZONE 25
26	INSTANT	ZONE 26
27	INSTANT	ZONE 27
28	INSTANT	ZONE 28
29	INSTANT	ZONE 29
30	INSTANT	ZONE 30
31	INSTANT	ZONE 31
32	INSTANT	ZONE 32
33	INSTANT	ZONE 33
34	INSTANT	ZONE 34
35	INSTANT	ZONE 35
36	INSTANT	ZONE 36
37	INSTANT	ZONE 37
38	INSTANT	ZONE 38
39	INSTANT	ZONE 39
40	INSTANT	ZONE 40
41	INSTANT	ZONE 41
42	INSTANT	ZONE 42
43	INSTANT	ZONE 43
44	INSTANT	ZONE 44
45	INSTANT	ZONE 45

NOTE: Zones 46 -72 follow similarly as Zones 9 - 45.

ZONE ATTRIBUTES

133 Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
136 CS Code	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016
137 PID Type Code	134	132	131	131	131	131	131	110	131	131	131	131	131	131	131	131
138 Right Loop	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
139 Enable Bypass	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
140 Auto Bypass	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
141 Arm Faulted	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
142 Force Arm Faulted	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
143 Group Enable	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
144 CS Trouble	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
145 CS Restore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
146 Partition Selection	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
147 24 Hour Alarm	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
148 24 Hour Trouble	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
149 Alarm Type	3	3	3	3	3	3	3	1	3	3	3	3	3	3	3	3
150 Trouble Type	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6
151 Alarm on Open	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
152 Alarm on Short	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
153 Trouble on Open	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
154 Trouble on Short	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
155 Exit Delay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
156 Entry Delay	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
157 Enable Lockout	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
158 CS Bypass	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
159 Enable Trbl. Buzzer	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
160 Enable Chime	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
161 Enable 750ms Resp.	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
162 Pulse Count Time	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
163 # Pulses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ZONE ATTRIBUTES

133 Zone	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
136 CS Code	017	018	019	020	021	022	023	024	025	026	027	028	029	030	031	032
137 PID Type Code	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131
138 Right Loop	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
139 Enable Bypass	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
140 Auto Bypass	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
141 Arm Faulted	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
142 Force Arm Faulted	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
143 Group Enable	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
144 CS Trouble	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
145 CS Restore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
146 Parttition Selection	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
147 24 Hour Alarm	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
148 24 Hour Trouble	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
149 Alarm Type	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
150 Trouble Type	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
151 Alarm on Open	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
152 Alarm on Short	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
153 Trouble on Open	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
154 Trouble on Short	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
155 Exit Delay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
156 Entry Delay	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
157 Enable Lockout	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
158 CS Bypass	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
159 Enable Trbl. Buzzer	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
160 Enable Chime	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
161 Enable 750ms Resp.	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
162 Pulse Count Time	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
163 # Pulses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ZONE ATTRIBUTES

133 Zone	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
136 CS Code	033	034	035	036	037	038	039	040	041	042	043	044	045	046	047	048
137 PID Type Code	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131
138 Right Loop	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
139 Enable Bypass	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
140 Auto Bypass	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
141 Arm Faulted	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
142 Force Arm Faulted	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
143 Group Enable	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
144 CS Trouble	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
145 CS Restore	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
146 Partition Selection	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
147 24 Hour Alarm	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
148 24 Hour Trouble	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
149 Alarm Type	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
150 Trouble Type	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
151 Alarm on Open	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
152 Alarm on Short	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
153 Trouble on Open	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
154 Trouble on Short	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
155 Exit Delay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
156 Entry Delay	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
157 Enable Lockout	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
158 CS Bypass	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
159 Enable Trbl. Buzzer	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
160 Enable Chime	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
161 Enable 750ms Resp.	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
162 Pulse Count Time	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
163 # Pulses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE: Zones 49 - 72 follow similarly as Zones 33 - 48.

KEYPAD CONDITIONS

164 Select Keypad Function # (1 - 4)

164 Function	167 Description	165 CS Code	166 PID Format	168 Alarm Type	169 Enable Restore
1	EMERGENCY	242	120	2	NO
2	MEDICAL	244	100	7	NO
3	KEYPAD FIRE	241	115	1	NO
4	DURESS	242	121	5	NO

PARTITION INFORMATION

170 Partition Selection (1 - 8)

170 Partition	172 Description	173 CS#1 ACCT #	174 CS#2 ACCT #	171 Keypad Assignment													
				LED								LCD					
				1	2	3	4	5	6	7	8	1	2	3	4	5	6
1		1234	FFFF	N	N	N	N	N	N	N	N	Y	N	N	N	N	N
2		FFFF	FFFF	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3		FFFF	FFFF	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4		FFFF	FFFF	N	N	N	N	N	N	N	N	N	N	N	N	N	N

NOTE: Only LCD keypad #1 is enabled. Therefore, only a single LCD keypad addressed as keypad #1 should be connected for first time power up of the system. Additional keypads should only be connected after they have been assigned in programming.

AUTO DUMP PARAM.

175 Auto Dump Type	NONE
176 Day of Month	01
177 Day of Week	SUNDAY
178 Report Hour	00
179 Report Minute	00
180 Memory Dump # Events	99
181 Auto Dump Account #	0000
182 Auto Dump Description #1	
183 Auto Dump Description #2	
184 Auto Dump Description #3	
185 Auto Dump Description #4	

10. KEYPAD PROGRAMMING SUMMARY

The questions listed below will be asked when entering the keypad programming mode on the XL-4 control panels.

CS COMMUNICATIONS

001 Callback Number
002 Dump Telephone Number
003 CS #1 Rcvr. Tel. Number
004 CS #1 Receiver Type
005 CS #1 ACCT # (3/4 Digit)
006 CS #1 Parity Selection
007 CS #1 SESCOA Format
008 CS #2 Rcvr. Tel. Number
009 CS #2 Receiver Type
010 CS #2 ACCT # (3/4 Digit)
011 CS #2 Parity Selection
012 CS #2 SESCOA Format
013 Installer Code
014 Dialing Type
015 Dial Tone Detection
016 CS Dialer Enable
017 Rem Commands Enable
018 Remote Disarm Enable
019 Remote Arming
020 Remote Bypass
021 # of Attempts
022 # of Rings to Pickup
023 Extended Antijam
024 Extended Acknowledge

USER ATTRIBUTES **

025 Select User Number
026 User Authorization Level
027 User CS ID
028 User Partition Assignment
029 O/C Part Enab.
030 User Master Partition

NOTE: The group of questions with a double asterisk (**) are selection questions. The first question of each group must have the proper choice selected in order to advance through the remaining questions. Otherwise, the group will be skipped.

SYSTEM ATTRIBUTES

031 Zone Expansion Modules
032 Open/Close CS Rep.Path
033 Clock Set CS Path
034 Test CS Reporting Path
035 Test Frequency
036 Test Time - Hour of Day
037 Test Time - Minute of Day
038 Download Confirm Path
039 Bypass Transmission Path
040 Disable Bypass on Stay
041 Transmit Bypass on Arming
042 Auto Unbypass Enable
043 Arm Outputs Level
044 Bell Test At Arming
045 Bell Ringback at Closing
046 Sounder Ringback Enable
047 Fire Reset Verification
048 Enable Reset Key Function
049 En. Rest to Follow Loop
050 Action on Abort
051 En. Multi Part. Mode
052 Enable Quick Arming
053 En Quick Forced Arming
054 Secure Forced Arm Enab
055 Enable Zone Directory
056 Enable Quick Bypass
057 Enable Chime Control
058 Enable Super User (Lev0)
059 En. Multi Part Arm/Disarm
060 Enab. 7 Digit User Code
061 CSID Inst. Default
062 Keypad Programming
063 Daylight Savings Time
064 AC Line Frequency

SYSTEM TIMING

065 Bell Delay
066 Dialer Delay
067 Exit Delay #1
068 Exit Delay #2
069 Entry Delay #1
070 Entry Delay #2
071 AC Loss Delay
072 Exit Triggers
073 Entry Triggers
074 Timeout #1
075 Timeout #2
076 Timeout #3
077 Global Bell Lockout
078 Local Bell Lockout
079 Global Dialer Lockout
080 Local Dialer Lockout

SYS FUNCT. CODES

081 Bypass Code
082 Bypass Restore
083 Abort Code
084 Opening Code
085 Closing Code
086 Clock Set Code
087 Cancel Code
088 Cancel Path
089 System Test Funct.Code
090 System Test CS Code
091 AC Loss CS Code
092 Low Battery CS Code
093 System Error CS. Code
094 Download Funct. Code
095 Download CS. Code
096 Buzzer on AC Loss
097 Buzzer on Low Battery
098 Buzzer on System Error
099 24 Hour AC Trouble
100 24 Hour Low Battery
101 24 Hour System Error
102 Trouble Type AC Failure
103 Trouble Type Low Battery
104 Trouble Type System Error

ALARM TYPES **

105 Select Alarm Type
106 Description
107 CS Code
108 CS Restore Code
109 CS Reporting Path
110 Bell Delay
111 Dialer Delay
112 Buzzer Enabled
113 Display Alarm
114 Timeout Selection
115 Alarm Priority
116 Momentary Triggers
117 Latched Triggers
118 Relay 1 Select
119 Relay 2 Select

TROUBLE TYPES **

120 Select Trouble Type
121 Description
122 CS Code
123 CS Restore Code
124 CS Reporting Path
125 Dialer Delay
126 Bell Delay
127 Timeout Selection
128 Reporting Priority
129 Momentary Triggers
130 Latched Triggers
131 Relay 1 Select
132 Relay 2 Select

ZONE ATTRIBUTES **

133 Select Zone Number
134 Zone Type
135 Description
136 CS Code
137 PID Type Code
138 Right Loop
139 Enable Bypass
140 Auto Bypass
141 Arm Faulted
142 Force Arm Faulted
143 Group Enable
144 CS Trouble
145 CS Restore
146 Partition Selection
147 24 Hour Alarm
148 24 Hour Trouble
149 Alarm Type
150 Trouble Type
151 Alarm on Open
152 Alarm on Short
153 Trouble on Open
154 Trouble on Short
155 Exit Delay
156 Entry Delay
157 Enable Lockout
158 CS Bypass
159 Enable Trouble Buzzer
160 Enable Chime
161 Enable 750MS Response
162 Pulse Count Time
163 # Pulses

KEYPAD COND. **

164 Select Keypad Function #
165 CS Code
166 PID Format
167 Description
168 Alarm type
169 Enable Restore

PARTITION INFO. **

170 Partition Selection
171 Partition Keypad Assign.
172 Partition Description
173 CS #1 ACCT #
174 CS #2 ACCT #

AUTO DUMP PARAM.

175 Auto Dump Type
176 Day of Month
177 Day of Week
178 Report Hour
179 Report Minute
180 Memory Dump # Events
181 Auto Dump Account #
182 Auto Dump Description #1
183 Auto Dump Description #2
184 Auto Dump Description #3
185 Auto Dump Description #4

NOTE: The group of questions with a double asterik (**) are selection questions. The first question of each group must have the proper choice selected in order to advance through the remaining questions. Otherwise, the group will be skipped.

11. STANDARD SYSTEM PROGRAMMING SUMMARY

The following list is to be used as a quick guide when some of the System Defaults are to be used.
NOTE: Refer to the System Defaults section of this manual for more specific information.

If a LOCAL SYSTEM is to be used (no telephone line to be connected), then CS Reporting, Remote Operations and Remote Auto Dump feature must be disabled. Quest. #002 must be BLANK, question #016 must be NO and quest. #017 must be NO. Local Auto Dump feature can still be enabled (see quest. #175).

CS COMMUNICATIONS

003 CS #1 Rcvr. Tel. Number
004 CS #1 Receiver Type
005 CS #1 ACCT # (3/4 Digit)
006 CS #1 Parity Selection
007 CS #1 SESCOA Format
013 Installer Code

USER ATTRIBUTES **

025 Select User Number
026 User Authorization Level
028 User Partition Assignment

SYSTEM ATTRIBUTES

031 Zone Expansion Modules

SYSTEM TIMING

067 Exit Delay #1
070 Entry Delay #2
074 Timeout #1 (Burg. Bell)
075 Timeout #2 (Fire Bell)

SYS FUNCT. CODES

091 AC Loss CS Code
092 Low Battery CS Code
093 System Error CS Code

TROUBLE TYPES **

105 Select Trouble Type
(1=AC Loss, 2=Low Batt,
4=Sys Error, 5=Fire)

124 CS Reporting Path

NOTE: Question #124 must be enabled
for the corresponding code.

ZONE ATTRIBUTES **

133 Select Zone Number
134 Zone Type
146 Partition Selection
147 24 Hour Alarm
(YES for Fire)
148 24 Hour Trouble
(YES for Fire)
149 Alarm Type
(1=Fire, 3=Burg.)
150 Trouble Type
151 Alarm on Open
(NO for Fire)
152 Alarm on Short
(YES for Fire)
153 Trouble on Open
(YES for Fire, NO for Burg.)
154 Trouble on Short
(NO for Fire, NO for Burg.)
159 Enable Trouble Buzzer
(YES for Fire)
160 Enable Chime

KEYPAD COND. **

164 Select Keypad Function #
165 CS Code

PARTITION INFO. **

170 Partition Selection
171 Partition Keypad Assign.
172 Partition Description
173 CS #1 ACCT #

NOTE: The group of questions with a double asterik (**) are selection questions. The first question of each group must have the proper choice selected in order to advance through the remaining questions. Otherwise, the group will be skipped.