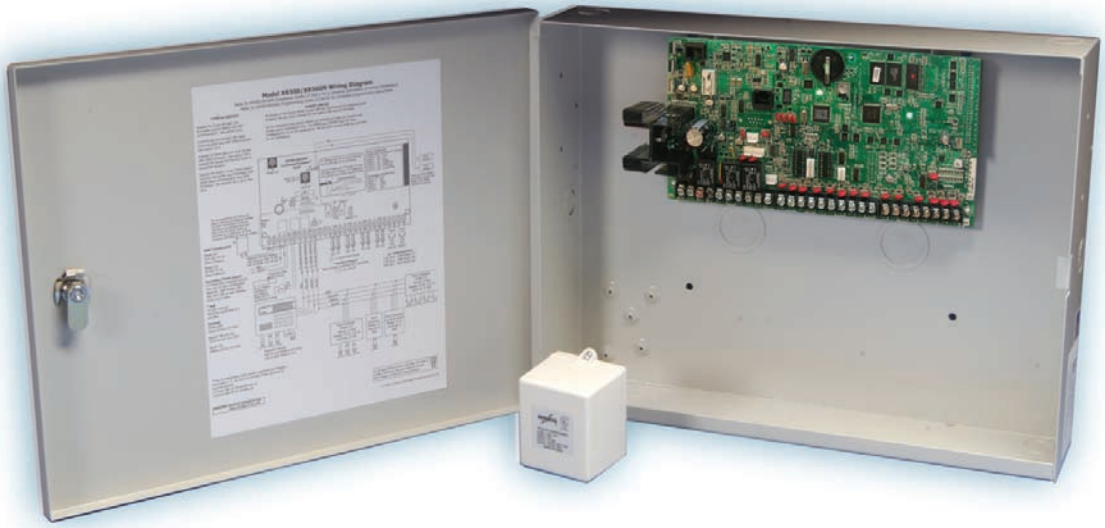
PROGRAMMING GUIDE



XR100 SERIES
COMMAND PROCESSOR™ PANEL

Digital Monitoring Products

MODEL XR100 SERIES ACCESS CONTROL COMMAND PROCESSOR™ PANEL PROGRAMMING GUIDE

Contains programming instructions for use with the Model XR100 and XR100N Access Control Command Processor™ Panel.

When using the XR100 Series panel for any UL, NFPA, CSFM, or other listing organization's approved methods, refer to this manual and the XR100 Series Installation Guide (LT-0899). These documents outline the installation and programming requirements of all applications for which the XR100 Series is approved.

FCC NOTICE

This equipment generates and uses radio frequency energy and, if not installed and used properly in strict accordance with the manufacturer's instructions, may cause interference with radio and television reception. It has been type tested and found to comply with the limits for a Class A computing device in accordance with the specification in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the installer is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna

Relocate the computer with respect to the receiver

Move the computer away from the receiver

Plug the computer into a different outlet so that computer and receiver are on different branch circuits

If necessary, the installer should consult the dealer or an experienced radio/television technician for additional suggestions. The installer may find the following booklet, prepared by the Federal Communications Commission, helpful:

"How to identify and Resolve Radio-TV Interference Problems."

This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402

Stock No. 004-000-00345-4

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Revisions to This Document

This section explains the changes made to this document during this revision. It lists the date and identifies the change(s) made, the related section number and section heading, and a summary of the change.

Date	Section Number and Heading	Quick Explanation of Changes
1/07	3.3 Second Line	Removed Telephone from title.
	8.6 Zone Retard Delay	Added Panic as a zone type option.
11/06	1.6 Power Up	Revised for SIA CP-01 option operation.
	3.2.2 Network Backup	Option revised for new programming operation.
	3.2.3 Supervise Backup	Option added for new programming operation. **Note**: Subsequent section numbers changed.
	3.2.6 Modem Setup	Added Supervise Backup operation information.
	3.2.9 Substitution Code	Added note regarding Net Backup and Supervise Backup operation.
	3.2.10 Check In	Added note regarding Net Backup and Supervise Backup operation.
	5.4 Access Areas	Added note regarding All/Perimeter, Home/Sleep/Away operation.
	5.5 Egress Areas	Added note regarding All/Perimeter, Home/Sleep/Away operation.
	5.6 Display Areas	Added note regarding All/Perimeter, Home/Sleep/Away operation.
	8.2 System	Option added for new programming operation. **Note**: Subsequent section numbers changed.
	8.4 Entry Delay 1	Added note regarding SIA CP-01 option operation.
	8.19 SIA CP-01	Option added to enable specific SIA CP-01 operations.
	14.2 Exit Delay	Added note regarding SIA CP-01 option operation.
	14.8 Area Schedules	Added note regarding All/Perimeter, Home/Sleep/Away operation.
	14.9.1 Area Number	Added note regarding All/Perimeter, Home/Sleep/Away operation.
	14.9.2 All/Perimeter Programming	Option added for new programming operation.
	14.9.3 Home/Sleep/Away Programming	Option added for new programming operation.
	14.12 Automatic Arming	Added note regarding SIA CP-01 UL installations.
	14.14 Automatic Disarming	Added note regarding SIA CP-01 UL installations.
	15.5 Area Assignment	Added All/Perimeter, Home/Sleep/Away operation.
	15.7 Arming Zone Area Assignment	Added All/Perimeter, Home/Sleep/Away operation.
	15.11 1100 Series Key Fobs	Added information regarding Key Fob user operation.
	15.11.9 Arm/Disarm Areas	Added All/Perimeter, Home/Sleep/Away operation.
	16.1 Stop	Revised for SIA CP-01 option operation.
	19.9 User Profiles	Added note regarding All/Perimeter, Home/Sleep/Away operation.
	19.12.1 Keypad Bus Zone Type Defaults	Added Keypad Bus Zone Information Table with All/Perimeter, Home/Sleep/Away operation and related Defaults list.
	19.12.2 LX-Bus Zone Type Defaults	Added All/Perimeter, Home/Sleep/Away operation to LX-Bus Zone Information Table and related Defaults list.
10/06	8.15 House Code	Option added for new wireless programming operation.
	8.16 Detect Wireless Jamming	Option added for new wireless programming operation.
	8.17 Enable Keypad Panic Keys	Option added to allow override of Keypad two-button panic function.
	15.2 Zone Number	Added zone numbers for new wireless programming operation.
	15.9 Next Zone	Revised to cover new wireless programming operation.
	15.10 DMP Wireless	Section added for new wireless programming options. Added note regarding UL installations.
	15.11 1100 Series Wireless Key Fob	Section added for new wireless programming options. Added note regarding UL installations. **Note**: Subsequent section numbers changed.
	19.11 Zone Type Specifications	Added revised table and text to reflect new DMP Wireless options.
	19.12 Common Keypad Messages	Added new wireless keypad messages.

Introduction

1.1 Before you Begin

This guide provides programming information for the DMP XR100 and XR100N Command Processor™ Panel. After this Introduction, the remaining sections describe the functions of each programming menu item along with the available options. Before starting to program, we recommend that you read through the contents of this guide. The information contained here allows you to quickly learn the programming options and operational capabilities of the XR100 and XR100N panels.

In addition to this guide, you should also read and be familiar with the following XR100 Series documents:

- XR100 Series Installation Guide (LT-0899)
- XR100 Series Programming Sheet (LT-0897)
- XR500/XR100 Security Command® User's Guide (LT-0683)

Internal Programmer

The panel contains all of its programming information in an on-board processor and does not require an external programmer. You can perform all programming tasks through a 32-character DMP alphanumeric keypad set to address one.

Programming Information Sheet

Included with each panel are the Programming Information Sheets. These list the various programming prompts and available options for programming the panel. Before starting to program, we recommend you completely fill out each sheet with the programming options you intend to enter into the panel.

Having completed programming sheets available before entering data helps prevent errors and can shorten the time you spend programming. Completed sheets also provide you with an accurate panel program record you can keep on file for future system service or expansion. The remainder of this Introduction provides instructions for starting and ending a programming session using the alphanumeric keypad.

1.2 Getting Started

Ground Yourself Before Handling the Panel! Touch any grounded metal, such as the enclosure, before touching the panel to discharge static.

Remove All Power From the Panel! Remove all AC and Battery power from the panel before installing or connecting any modules, cards, or wires to the panel.

Before starting to program the XR100 Series panel, make sure the panel is properly grounded and AC and battery power is applied to the appropriate panel terminals. All wiring connections and grounding instructions are detailed in the XR100 Series Installation Guide (LT-0899).

Accessing the Programmer

1. Install the reset jumper across the two J16 reset pins for two seconds.
2. Remove the reset jumper and place it over just one pin for future use.
3. Enter the code 6653 (PROG) into a 32-character alphanumeric keypad set to address one, supervised mode. Press COMMAND.

   Note: If the keypad displays ENTER CODE:, a lock out code is required.
4. The keypad displays PROGRAMMER.

You are now ready to start programming the panel.

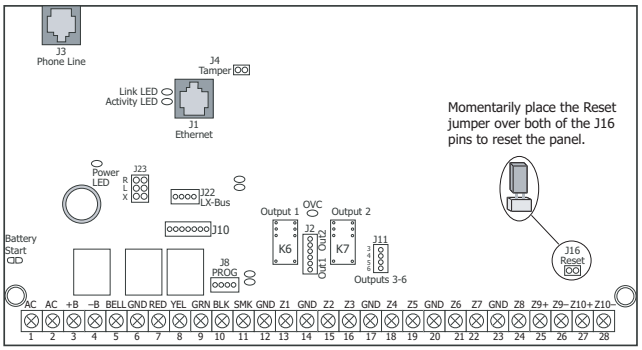


Figure 1: XR100 Series Panel Showing Reset

1.3 Programmer Operation

There are 17 programming sections to choose from:

Programming Item	Section in this manual	Programming Item	Section in this manual
Initialization	2	Menu Display	11
Communication	3	Status List	12
Network Options	4	PC Log Reports	13
Device Setup	5	Area Information	14
Remote Options	6	Zone Information	15
System Reports	7	Stop	16
System Options	8	Set Lockout Code	17
Output Options	9	Feature Upgrade	18
Output Groups	10		

To choose a section for programming, press any top row Select key when the keypad displays the name of that section. Sections 2 through 18 contain detailed instructions for each programming step.

1.4 Programmer Lockout Codes

The panel allows you to enter the programming function without entering a lockout code using steps 1 to 4 listed in Getting Started. We recommend, however, that you install a Lockout Code to restrict programming to only those persons your company authorizes. You can do this by using the **SET LOCKOUT CODE** feature in the Programmer. The Lockout Code restricts any unauthorized panel programming.

After resetting the panel and entering the code 6653, the keypad displays **PROGRAMMER**. Press COMMAND to advance through the programming sections until **SET LOCKOUT CODE** displays (after **STOP**). Press any top row Select key. The keypad displays **ENTER CODE:** - . Enter a 3 to 5 digit Programmer Lockout Code and press COMMAND. The keypad displays **ENTER AGAIN** followed by **ENTER CODE:** -. Enter the same 3 to 5 digit code a second time and press COMMAND. The keypad displays **CODE CHANGED**.

Note: The panel will not accept a 5-digit Lockout Code higher than 65535.

Before accessing programmer functions enter the new code number.

Write the Lockout Code number down and keep it in a secure place with access limited to authorized persons only. Lost Lockout Codes require the panel to be sent back to DMP for repair. You may cancel a Lockout Code by entering 00000 at the Set Lockout Code command.

1.5 Reset Timeout

The panel has a feature that requires you to enter the Programmer within 30 minutes of resetting the panel. After 30 minutes, if you attempt to program by entering the 6653 (PROG) code, the keypad displays: **RESET PANEL**. You must reset the panel and enter the program code then begin programming within the next 30 minutes.

If you are already in the Programmer and do not press any keys on the programming keypad for 30 minutes, the panel terminates programming. All data entered up to that time is Not saved unless you run the Stop routine.

Note: Use the Stop routine to exit panel Programming. Ensure the keypad displays "SAVING PROGRAM" to save all programming changes entered.

1.6 Power Up

When the SIA CP-01 option in System Options is set to Yes, for 60 seconds after power up or after applying the J16 reset on the XR100 Series panel, any zone transitions are not recognized. Normal zone processing resumes at the end of the 60 seconds.

1.7 Keypads

DMP offers multiple keypads in a variety of styles. All DMP keypads provide the same programming capabilities. Each keypad and its operation are shown and described in the following sections.

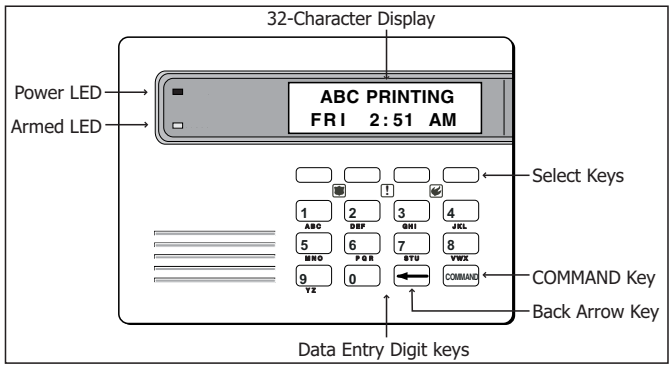


Figure 3: Security Command Keypad

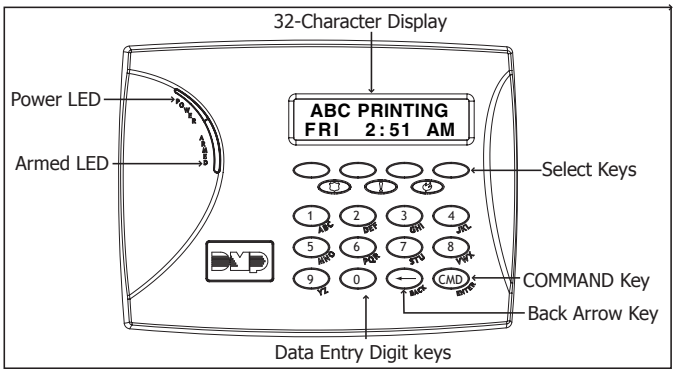


Figure 4: Thinline/Aqualite Keypad

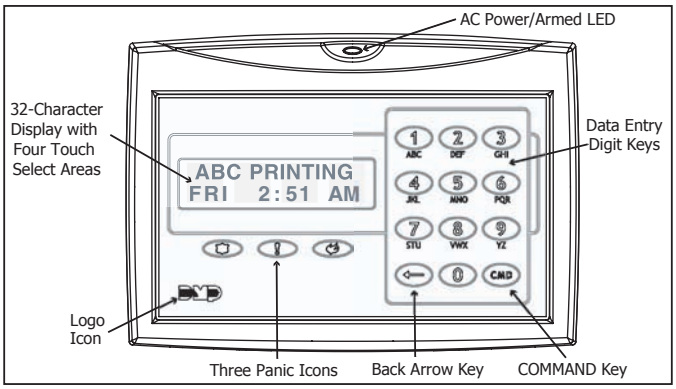


Figure 5: Clear Touch Keypad

1.8 Special Keys

The following special keys/areas are common to all DMP keypads.

COMMAND (CMD) Key

Pressing the COMMAND key allows you to go forward through the programming menu and through each step of a programming section. As you go through the programming, the keypad display shows any current programming already stored in the panel memory. If no change is required for a prompt, press the COMMAND key to advance to the next step.

The COMMAND key is also used to enter information into the panel's memory such as phone numbers or zone names. Press the COMMAND key after entering information.

Back Arrow (<—) Key

Use the Back Arrow key to back up one step while programming. The Back Arrow key is also used when an error is made while entering information. Press the Back Arrow key once to erase the last character entered.

Select Keys/Areas

The top row of keys are called the Select keys on Security Command, Thinline, and Aqualite keypads or Select Areas on Clear Touch keypads. Each time you need to press a Select key, the keypad displays the function or options above one of the keys or in the Select Area. Displaying choices above individual Select keys or in Select Areas allows them to be used for many different applications. For example, you can enter AM or PM when programming the automatic test time or answer **YES** or **NO** for a system option.

During programming, the Select keys/areas also allow you to change information currently in panel memory by pressing the appropriate Select key/area under or on the display. You then enter the new information using the keypad data entry digit keys.

When there are more than four response options available, press the COMMAND key to display the next one to four options. Pressing the Back Arrow key allows you to review the previous four choices.

The Select keys/areas are also used for choosing a section from the programming menu. Press any Select key or touch the Select Area when the programming section name you want displays.

Note: On Security Command, Thinline and Aqualite keypads, when instructed to press the first Select key, press the far left Select key; the second Select key is the second from the left; third Select key is second from the right; and the fourth Select key is the far right key. See Figures 6 and 7.

On Clear Touch Keypads, when instructed to press the first Select key, touch Select Area 1; the second Select key touch Select Area 2; third Select key touch Select Area 3; and the fourth Select key touch Select Area 4. See Figure 8.

1.9 Entering Alpha Characters

Some options during programming require you to enter alpha characters. To enter an alpha character, press or touch the key that has that letter written below it. The keypad displays the number digit of the key. Next, press the Select key/area that corresponds to the location of the letter under the key. Pressing a different Select key/area changes the letter. When another digit key is pressed, the last letter displayed is retained and the process starts over.

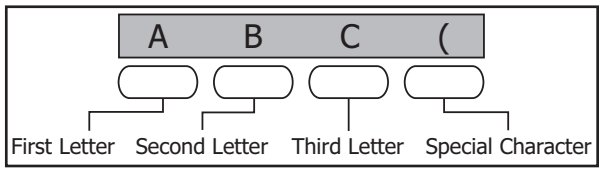


Figure 6: Security Command Select Keys

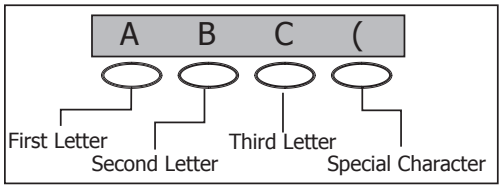


Figure 7: Thinline/Aqualite Select Keys

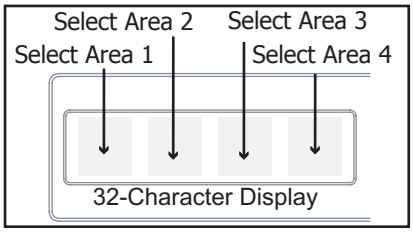


Figure 8: Clear Touch Select Areas

1.10 Entering Non-Alpha Characters

To enter a space in an alpha entry, press the 9 digit key followed by the third Select key/area. The three characters on the 9 digit key are Y, Z, and space. You can also enter the following characters: – (dash), . (period), * (asterisk), and # (pound sign) using the 0 (zero) key and the four Select keys/areas from left to right. For example, to enter a – (dash), press the 0 (zero) key and then the left Select key/area. A dash now appears in the keypad display. Figures 9 and 10 show the character location for Security Command, Thinline, and Aqualite keypads. Figure 11 shows the character locations for Clear Touch keypads.

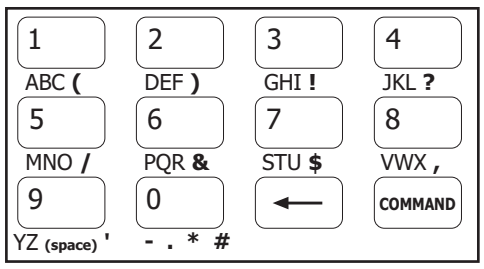


Figure 9: Security Command Special Characters

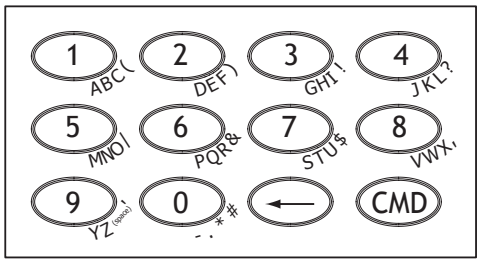


Figure 10: Thinline/Aqualite Special Characters

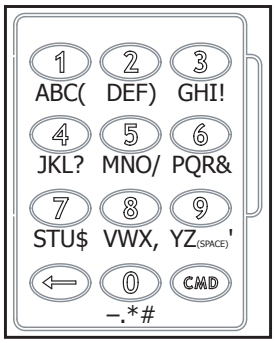


Figure 11: Clear Touch Special Characters

1.11 Keypad Displays Current Programming

Each programming prompt displayed at the keypad shows the currently selected option in the panel memory. These options are either shown as a number, a blank, or a **NO** or **YES**. To change a number or blank to a new number, press any top row Select key or touch any Select Area. The current option is replaced with a dash. Press the number(s) on the keypad you want to enter as the new number for that prompt. It is not necessary to enter numbers with leading zeros. The panel automatically right justifies the number when you press the COMMAND key.

To change a programming prompt that requires a **NO** or **YES** response, press the Select key or touch the Select Area for the response not selected. See Figure 12.

For example, if the current prompt is selected as **YES** and you want to change it to **NO**, on Security Command, Thinline, or Aqualite keypads press the third top row Select key. On Clear Touch keypads touch Select Area 3. The display changes to **NO**. Press the COMMAND key to display the next prompt.

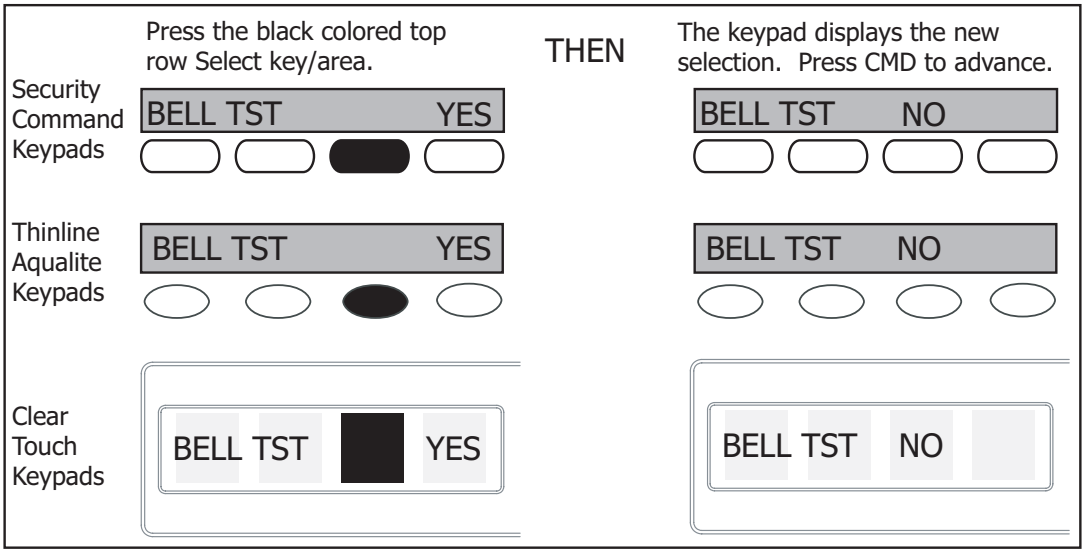


Figure 12: Changing the Current Programming Option

1.12 Asterisks in Programming

Asterisks display next to a programming option that is already selected. As shown in the example, options that are selected to display the current programming selection have an asterisk next to the number. Those that are not selected simply display the number. In the Devices example, keypads 3, 6, and 8 are not selected. In the Areas example, areas 3, 6, and 8 are not selected. In both examples the numbers with asterisks are selected.

Devices			
*1	*2	3	*4
*5	6	*7	8

Areas			
*1	*2	3	*4
*5	6	*7	8

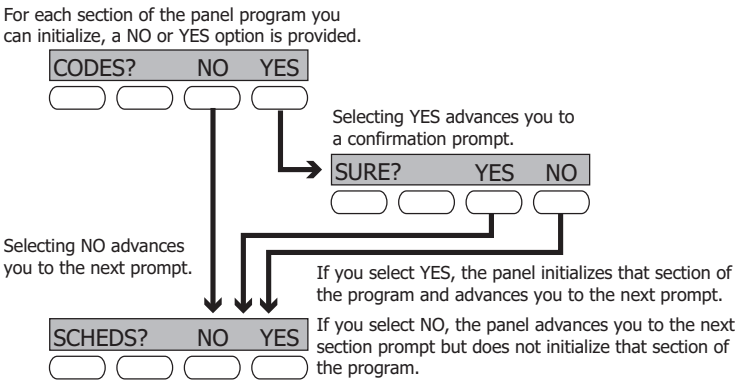
To select or deselect a number, simply enter the number using the digit keys on the keypad. This same scheme is used when viewing the panel armed status and other programming and operational functions. Remember to press the COMMAND key to display the rest of the device or area numbers.

Initialization

NOTE: **WHEN ANY PANEL PROGRAMMING IS CHANGED, THE STOP ROUTINE MUST BE RUN AND 'SAVING PROGRAM' MUST DISPLAY ON THE KEYPAD IN ORDER TO SAVE THE PROGRAMMING CHANGES. SEE SECTION 17.1.**

2.1 INITIALIZATION — Initialization

This function allows you to clear selected parts of the panel program back to the factory defaults in preparation for system programming. Run the initialization function on all new installations.



2.2 INIT ALL? NO YES / SURE? YES NO — Clear All Memory

NO - Leaves existing programming intact then displays Clear All Codes.

YES - Clears all memory then displays Reset Panel. Reset the panel by shorting J16 and re-enter programming mode to continue.

2.3 CODES? NO YES / SURE? YES NO — Clear All Codes

NO - Leaves existing codes intact.

YES - Clears the user code and user profile memory and assigns user code number 99 to the highest user position.

Note: The user name for the default user code is created using the current programmed primary user language.

2.4 SCHEDS? NO YES / SURE? YES NO — Clear All Schedules

NO - Leaves existing schedules intact.

YES - Clears all shift, and output schedules.

2.5 EVENTS? NO YES / SURE? YES NO — Clear Display Events Memory

NO - Leaves existing event memory intact.

YES - Clears the events memory.

2.6 ZONES? NO YES / SURE? YES NO — Clear Zone Information

NO - Leaves existing zone information intact.

YES - Clears the zone information for all zones. All zones are marked * UNUSED * and must be renamed before being able to display on any system keypad.

2.7 AREAS? NO YES / SURE? YES NO — Clear Area Information

NO - Leaves existing area information intact.

YES - Clears the area information for all areas. All areas are marked * UNUSED * and must be renamed before being able to display on any system keypad.

2.8 OUTPUTS? NO YES / SURE? YES NO — Clear Output Information

NO - Leaves existing output information intact.

YES - Clears all programmed Output names and any output cutoff assignment.

2.9 Clear Communication and Remote Options

COM/RMT? NO YES
SURE? YES NO

NO - Leaves existing communication and remote options intact.

YES - Clears communication and remote options programming to factory defaults.

2.10 Set to Factory Defaults

DEFAULTS NO YES
SURE? YES NO

NO - Leaves existing panel programming intact.

YES - Sets the remainder of the panel programming back to the factory defaults.

Note: Sets the Programming and User language to English.

Communication

3.1 COMMUNICATION — Communication

Configure the communication options for the panel. The information you program varies with the Communication Type you select.

3.2 COMM TYPE: DD — Communication Type

Specifies the communication method the panel uses to report system events to DMP SCS-1R Receivers or non-DMP receivers. Press any Select key/area.

NONE DD NET CID

NONE - For local systems. Selecting NONE ends communication programming.

DD - Digital Dialer communications to a DMP SCS-1 or SCS-1R Receiver.

NET (Network) - Asynchronous communication using the panel onboard network connection (XR100N). The DMP Network/Output reporting format is transmitted over an asynchronous data network to the SCS-1 or SCS-1R Receiver. If you need to send a duplicate signal to the central station and you have selected NET, use Receiver 2 programming to send a duplicate digital dialer signal.

Note: When NET is selected, 2ND LINE programming allows you to select D2 for two line supervision when using a Model 893A Dual Phone Line Module.

There are extra options available if you selected NET for the communication type. These options are explained in the following sections.

CID - This option allows the panel to communicate to non-DMP receivers using the Ademco Contact ID format. When selected, the panel sends all of its alarm, trouble, and supervisory reports to the receiver(s) programmed in Receiver 1 and 2 Programming.

Note: To automatically switch from DD to a backup CID receiver see Section 3.19.

3.2.1 RETRY TIME: - — Retry Time

After selecting NET, the keypad displays RETRY TIME: -. Enter the number of seconds (3 to 15 seconds) the panel should wait before retrying to send a message to the receiver if an acknowledgment was not received. The panel retries as many times as possible for a period of one minute before sending a network trouble message. For example, if retry time is set to 15, the panel retries four times. The default Retry Time is 5 seconds.

Note: If TCP is enabled, the minimum Retry Time programmed is 6 seconds.

3.2.2 NET BCKUP **NO** YES — Network Backup

Select YES to enable Network Backup and require panel messages to be sent to a backup IP Address if the messages fail to communicate to the remote (primary) IP address. Select NO to disable Network Backup. Default is NO.

Note: When Network Backup is set to YES, a Modem Setup String is required to send messages to a backup IP address. See Modem Setup.

Note: Second line programming is available for dialer communication types such as CELL or DD to backup network communications.

3.2.3 SUPERVISE BACKUP **NO** YES — Supervise Backup

When Network Backup is set to YES, the Supervise Backup option displays. Select YES to enable supervised communication and send checkins to the network Central Station receiver for Network Backup. Select NO to disable Supervise Backup. Default is NO.

Programming options for supervision of Network Backup is provided by the same options used by the Communications Type programming for UL AA, Check In Time, and Fail Time. If Substitution Code is programmed YES, then it is automatically enabled for Network Backup. When Supervise Backup is set to YES, Net Trouble only displays on the keypad if both remote (primary) and backup IP address communications fail.

3.2.4 Remote IP Address

RMT IP ADDRESS: -
000.000.000.000

Enter the remote (primary) IP address where the panel sends network messages. The Remote IP Address must be unique and cannot be duplicated on the network. Enter all 12 digits and leave out the periods. For example, enter IP address 192.168.0.250 as 192168000250. The periods display automatically.

3.2.5 Alarm Port

ALARM PORT: -
2001

Enter the receiver port number. Default port number is 2001. If a different Port number is needed, enter the new number. Valid range is 1 to 65,535.

3.2.6 Modem Setup

MODEM SETUP:
-
-

The keypad displays MODEM SETUP:. Press COMMAND. Enter up to two lines of 16 characters to equal up to 32 characters for the backup receiver string address.

When Network Backup is set to YES, enter the backup IP address to receive panel messages and enter a Modem Setup String.

The Modem Setup String for the Network Backup should be entered as follows: AT#UCXXX.XXX.XXX.XXX#PPPPP. Also enter the UDP Port Number in place of the Ps. The default port number is 2001. To enter the # (pound sign), press 0 (zero) and the far right top row Select key. To enter . (periods), press 0 (zero) and the second from the left Select key. Enter the backup IP Address in place of the Xs.

Note: If the onboard network interface connection J1 (XR100N only) is being used for the **main** network communication (Network Backup is NO), do NOT enter a Modem Setup String here.

To use the Network Backup and Modem Setup features to send messages through the backup Network use the onboard network interface connection J1 on the XR100N and assign the Modem Setup String to route the backup messages through J1 to the backup receiver.

3.2.7 UL AA

UL AA **NO** YES

At the UL AA prompt, select Yes to enable AA Mode or NO to disable AA Mode. NO is the default setting. UL AA involves check-in reports. Check-in reports are a method of supervising the communication between the panel and the receiver. To be UL AA compliant, panels must check-in with the receiver every 6 minutes when armed.

The SCS-1R Receiver verifies that the next Check-in report is received at the appropriate time. SCS-1/805 or higher firmware is required in the SCS-1 Receiver. When AA is selected and the check-in fails after one minute, the panel sends a WARNING: NETWORK TROUBLE (S72) report on the 2ND LINE. The next time the NET report is successfully sent, the panel sends a NETWORK RESTORED (S73) report over the 2ND LINE.

If you select YES for UL AA, the DISARM CHKIN prompt displays.

DISARM CHKIN **RND**
MINUTES: - **RND**

Disarm Checkin

Press any Select key to display Minutes: - RND. Enter the number of minutes, from 1 to 6, between disarmed check-in reports. If any area is armed, the report is automatically sent every 6 minutes.

To select RND (Random), press the top right Select key. RND is the default setting. Selecting RND causes the panel to send the Check-in report at random times. When all areas are disarmed, the panel sends the report randomly but always between 5 to 60 minutes. If any area is armed, the panel sends the report every 6 minutes.

Note: NET TRBL, Network Fail Notification, is automatically enabled when UL AA is enabled. NET TRBL allows the panel to detect a primary network failure, send an S72, Network Trouble message, through the DD if it is programmed as the second line. When the primary network restores the panel sends an S73, Network Restored message.

3.2.8 NET TEST **NO** YES — Network Test

Select YES to send an S97 network test message to the Central Station receiver over the network based on the Test Time and frequency programmed in Communication. Select NO to not send an S97 network test message over the network. The default is NO.

Note: The S97 test message is specific to network operation. The S88 and S07 messages are specific to and only sent using the digital dialer. Having separate test messages for network and digital dialer operation allows the Central Station to identify the communication path used to send the message.

3.2.9 SUB CODE **NO** YES — Substitution Code

Select YES if the panel sends a Panel Substitution Code when communicating with the receiver. The Panel Substitution Code increases the level of security by helping to ensure that the panel sending the message to the receiver has not been substituted by another panel. The default is NO. When UL AA is YES, the substitution code is always sent.

When Substitution Code, Network Backup, and Supervise Backup are set to YES, the Substitution Code is sent to both the remote (primary) and backup IP addresses. When Substitution Code and Network Backup are set to YES and Supervise Backup is set to NO the Substitution Code is only sent to the remote (primary) IP address.

3.2.10 CHECKIN: **6** — Check In

Enter the number of minutes, from 0 to 240, between check-in reports when the panel is armed or disarmed. Check-in reports are a method of supervising the panel for communication with the receiver. Enter 0 (Zero) to disable the check-in. The default is 6 minutes.

When Supervise Backup is set to YES, the Check In is sent to both the remote (primary) and backup IP addresses. Set the Check In Time to a minimum of 3 minutes when Net Backup is set to YES. When Supervise Backup is set to NO the Check In is only sent to the remote (primary) IP address.

Check In messages sent to the remote (primary) and backup IP addresses continue to be sent at the same intervals over both communication paths.

Note: When used for Fire Protective Signaling, the Check-in Time should not exceed 1 minute.

3.2.11 FAIL TIME: **6** — Fail Time

Entering a FAIL TIME allows the receiver to miss multiple check-ins before logging that the panel is missing. For example, if CHECKIN is 10 and FAIL TIME is 30, the receiver only indicates a Panel Not Responding after 30 minutes. The FAIL TIME must be equal to or greater than the CHECKIN time: If the CHECKIN is 10 minutes, the FAIL TIME must be 10 or more minutes. The maximum FAIL TIME is 240 minutes. The default is 6 minutes.

3.2.12 NET TRBL **NO** YES — Network Trouble

Select YES to enable Network Fail Notification. When UL AA is enabled, this feature is automatically enabled.

When NET TRBL is YES and the panel detects a primary network communication failure, the panel attempts to send an S72, Network Trouble message, through NET then through digital dialer when it is programmed as the second line. Also, the trouble keypads sound a continuous tone and displays “NETWORK -TRBL.” Press any key to silence the tone.

When the primary network restores, the panel sends an S73, Network Restored message, through NET then through the digital dialer if it is programmed as the second line. The “NETWORK -TRBL” display is removed from the keypad and the tone automatically silences.

3.3 Second Line

2ND LINE: **NONE**

Allows you to use a second communication line to send reports to the SCS-1R Receiver should the first communication type fail. The default is NONE.

If 2ND LINE is DD and the Comm Type programming is DD, you need to install a DMP 893A Dual Phone Line Module to connect both the main and secondary phone lines to the panel.

NONE DD CELL NET

NONE - A second line is not used.

DD - Dialer communication to a DMP SCS-1R Receiver. When using CID as the main Communication Type, choose DD to communicate to a CID receiver on the 2ND LINE.

CELL - Cellular dialer communication with Cell-Miser™ restrictions. When Cell-Miser is selected, the following call restrictions apply to the panel.

1. Only zone alarms, Ambush, Line 1 Trouble, Abort, Recall Test, and Delayed Events are sent over the cellular system. Delayed Events are only sent if the cellular call was made for one of the other allowed reports.
2. Line 1 Trouble is sent only once during each armed period.
3. The dialing sequence uses the first phone number on line 1 only and the second phone number on line 2 only. This allows the panel to use the cellular phone number for cellular calls only without needing prefixes or area codes for land line dialing.

If 2ND LINE = DD	If 2ND LINE = CELL
Panel dials the 1st ph # twice on Line 1	Panel dials the 1st ph # twice on Line 1
Panel dials the 1st ph # twice on Line 2	Panel dials the 2nd ph # twice on Line 2
Panel dials the 2nd ph # twice on Line 1	Panel dials the 1st ph # twice on Line 1
Panel dials the 2nd ph # twice on Line 2	Panel dials the 2nd ph # twice on Line 2
Panel dials the 1st ph # twice on Line 1	Panel dials the 1st ph # twice on Line 1

NET (NETWORK) - DMP Asynchronous communication to a DMP SCS-1R Receiver or Network automation system. If NET is selected as the main Communication Type, NET does not display as an option in 2ND LINE. If NET is selected for 2ND LINE, all zone alarms and restorals are duplicated on the asynchronous channel in addition to the main communication method.

NONE DD 232 D2

232 is not supported in XR100 Series panels.

D2 only displays if NET is the main Communication type.

D2 - Select D2 to allow supervision of a second telephone line connected to a Model 893A Dual Phone Line Module.

3.4 Test Frequency

TEST FREQ: **NONE**

Specifies the communication test interval for the second phone line. This is displayed if 2ND LINE is programmed as DD, CELL or NET.

NONE REG 7 30

NONE - No communication test is made on the second line. NONE is selected by default.
REG - A 2ND LINE communication test is made each time the regular communication test completes.
7 - A communication test is made every 7 days at the test time programmed for the regular communication test. Test time deferrals are disregarded.
30 - A communication test is made every 30 days at the test time programmed for the regular communication test. Test time deferrals are disregarded.

If the 2ND LINE test fails to communicate after 10 attempts, the regular communication channel sends a Warning: Panel Backup Communication Fail (S12) report. The next time the panel sends a report over the 2ND LINE, the regular communication channel sends a Backup Communication Line Restored (S04) report.

3.5 NET FAIL TST : X
0 2HR 4HR 8HR

NET Fail Test

The time programmed in NET Fail Test increases the dialer test frequency programmed in Test Time during NET failure. Press any top row Select key to choose a 2, 4, or 8-hour interval between digital dialer contact attempts. The digital dialer sends an S88, Automatic Recall Unrestored System message or an S07, Automatic Recall Test message at the programmed **minutes** indicated in the Automatic Recall Test Time. Select 0 (zero) to disable a more frequent dialer test when NET communications fail. The default is 0 (zero).

3.6 ACCOUNT NO: 12345

Account Number

Enter the account number sent to the SCS-1R Receiver.

DD and NET - The range of valid account numbers for a panel using DD or NET is 1 to 65535. For accounts of four digits or less, do not enter leading zeros.

CID - Choose an account number between 1 to 9999.

3.7 XMIT DELAY: **30**

Transmit Delay

Enter the number of seconds (15 to 45) the panel waits before sending burglary, night, day, or exit reports to the receiver. Other zone type reports are sent immediately. Alarm bells and relay outputs are not delayed during this period. Program Burglary Outputs for pulsed or steady, and set Abort Reports to YES if Opening and Closing reports are not being sent. Enter 0 (zero) to disable this function. The default is 30.

If the area where the alarm occurred is disarmed during the Transmit Delay time, only an Abort Report (S45) message is sent to the receiver. If the area where the alarm occurred is disarmed after the alarm message is sent to the receiver but before the Bell Cutoff time expires even if the alarm was silenced, an Alarm Cancelled (S49) message is sent. The Alarm Cancelled report cannot be disabled.

Note: For UL Installations, the combined Transmit Delay (Abort Window) and Entry Delay must not exceed one (1) minute.

3.8 DTMF NO **YES**

DTMF

YES enables tone dialing by the panel. NO enables rotary dialing.

3.9 DFR TEST **NO** YES

Defer Test

Select YES to allow the programmed test report to be deferred if the panel communicates with a receiver within the time set in Test Frequency. Select NO to send the test report as programmed regardless of previous panel communication.

3.10 TEST FREQ 0

Test Frequency

Allows you to set how often the panel sends a test report to the SCS-1R Receiver. Enter from 1 to 60 days. This prompt does not display if Defer Test Time is NO.

3.11 TEST TIME
0:00 AM PM
TEST DAY: **ALL**

Test Time

Enter the time of day the panel sends the test report to the SCS-1R Receiver. Use entries between 12:00 to 11:59 and then choose AM or PM. When Defer Test Time is set to NO, this option allows you to program the day of the week the test report is sent.

SUN MON TUE WED
THU FRI SAT ALL

Press the COMMAND key to display the first four days of the week. Press the COMMAND key to display the last three days and ALL. Select the day of the week to send the test report. Default is ALL days.

2HR 4HR 6HR 12HR

If more frequent testing is required, press the COMMAND key to display 2HR, 4HR, 8HR, or 12HR instead of making one of the daily selections. Select the number of hours required between test reports. When programmed, the test occurs at the programmed **minutes** indicated in the Automatic Recall Test Time.

3.12 EVENT MGR: **SEND**

Events Manager

Specifies when non-alarm reports are sent to the receiver. This selection does not affect zone alarm, zone trouble, zone restoral, supervisory, or serviceman messages. Closing reports are not delayed if the Closing Wait option is YES. Contact ID does not delay reports but send them as they occur.

SND DLY KEEP

SND - All reports are sent to the receiver as they occur.

DLY - All non-alarm reports are held until the panel memory buffer contains 50 events or until the next panel communication with the receiver.

KEEP - All non-alarm reports are held in the panel memory buffer until they are overwritten by new activity. You can view the contents of the memory buffer using DMP Remote Link™ or System Link™. You can also use the display events feature in the User Menu. Refer to the Appendix for a table listing the delayed report types.

3.13 RECEIVER 1 PROG

Receiver One Programming

Allows you to set the options for the first receiver the panel attempts to contact when sending reports. The panel supports communication to two receivers.

3.14 ALARM NO **YES**

Alarm Reports

YES sends Abort, Alarm, Alarm Restoral, Alarm Cancelled, Ambush, Exit Error, and System Recently Armed reports to this receiver.

3.15 SPV/TRBL NO **YES**

Supervisory/Trouble Reports

YES sends Supervisory, Trouble, Trouble Restoral, Force Armed, Zone Fault reports, and Serviceman Messages to this receiver. The Supervisory/Trouble report is only sent if the keypad number has also been selected in Access Keypads under the **SYSTEM REPORTS** programming.

3.16 O/C USER NO **YES**

Opening/Closing and User Reports

YES sends Opening, Closing, Late to Close, Unauthorized Entry, Schedule and Code changes, Zone Reset, and Zone Bypass reports by user to this receiver.

3.17 TEST RPT NO **YES**

Test Report

Enter YES to enable the system test report to be sent to this receiver. Reports are sent according to the programming in Test Frequency and Test Time.

3.18 DOOR ACS NO **YES**

Door Access Report

YES enables Door Access Granted reports to this receiver whenever a door access is granted to a user. The Door Access Granted report is only sent if the keypad number has also been selected in Access Keypads under the **SYSTEM REPORTS** programming.

Note: The following three prompts and Receiver 2 programming prompts do not display if **COMM TYPE** is **NET**, **NET BACKUP** is **NO**, and **2ND LINE** is **NONE**.

3.19 BACKUP **NO** YES

Backup Reporting

Enter YES to enable this receiver to be a backup to the other receiver in the event the other receiver cannot be contacted.

3.20 First Telephone Number

FIRST PHONE NO.
-
-

This is the first number the panel dials when sending reports to this receiver. Phone numbers can have two lines of 16 characters each to equal up to 32 characters.

Enter a P to program a two second pause in the dialing sequence. The P character counts as part of the 32 allowable characters. No dial tone detect "D" is required. Dial tone detect is an automatic panel function.

Automatic CID communication: You can place a letter "T" in the telephone number first position to allow a message to be sent to the receiver using CID communications. Once the CID message is sent, subsequent messages are sent using the communications method selected under Communication Type until another telephone number with a "T" in the first position is encountered. This option allows capture by AES radio or CID backup communication to a CID receiver using a specific telephone number.

The automatic backup CID communication feature allows for the following communication options:

DD with CID second number
NET with DD second line
NET with CID second line
NET with DD/CID second line

For example, program NET with second line DD and phone number T555-1212, and you have NET with CID second line.

Call Waiting: You can place the "***** 7 0 P" (Star, Seven, Zero, Pause) in the telephone number first position to cancel Call Waiting. For example, program NET with second line DD and phone number *70P555-1212, and you have NET with Call Waiting cancelled on the second line.

Caution: A call waiting cancel programmed on a non-call waiting telephone line, would prevent communication to the central station.

3.21 Second Telephone Number

SECOND PHONE NO.
-
-

The panel dials the second number when two successive tries using the first number fail. If the panel cannot reach the receiver after two attempts using the second number, it returns to the first number and makes two additional attempts. A total of ten dialing attempts are made using the first and second phone numbers.

Each number can be up to 32 characters in length including any P, T, or *70P characters entered for pause, area code for cellular connections, CID communication, or call waiting cancel option.

Should all ten attempts fail, the panel clears the communication buffer and makes one communication attempt each hour to send a TRANSMIT FAILED (S87) report to the receiver. Access the User Menu Display Events feature to view the report information not sent to the receiver or download the report with DMP Remote Link™ software.

3.22 Receiver Two Programming

RECEIVER 2 PROG

Allows you to set the options for the second receiver the panel attempts to contact when sending reports. If you select YES for any of the second receiver options, you must have at least one phone number programmed in Receiver 2 programming. RECEIVER 2 PROG and the following prompts are not displayed if COMM TYPE is NET and 2ND LINE is NONE.

3.23 Alarm Reports

ALARM **NO** YES

See section Alarm Reports on previous page.

3.24 Supervisory/Trouble Reports

SPV/TRBL **NO** YES

See section Supervisory/Trouble Reports on previous page.

3.25 O/C USER **NO** YES

Opening/Closing and User Reports

See Opening/Closing and User Reports on previous page.

3.26 TEST RPT **NO** YES

Test Report

See Test Report on previous page.

3.27 DOOR ACS NO **YES**

Door Access Report

See Door Access Report on previous page.

3.28 BACKUP **NO** YES

Backup Reporting

See Backup Reporting on previous page.

3.29 FIRST PHONE NO.

-

-

First Telephone Number

Enter the phone number the panel dials to send reports to the receiver.

Note: All phone numbers can be up to 32 characters. Enter the letter P to program a two second pause in the dialing sequence. Enter the letter T as the string first character to enable the CID message communication format option. Enter *70P as the string first characters to cancel call waiting. These characters count as part of the 32 allowable characters. No dial tone detect D is required. Dial tone detect is an automatic panel function.

3.30 SECOND PHONE NO.

-

-

Second Telephone Number

The panel dials the second number when 2 successive tries using the first number have failed. If the panel cannot reach the receiver after two attempts using the second number, it returns to the first number and makes two additional attempts. A total of 10 dialing attempts are made using the first and second phone numbers.

Note: All phone numbers can be up to 32 characters. Enter the letter P to program a two second pause in the dialing sequence. Enter the letter T as the string first character to enable the CID message communication format option. Enter *70P as the string first characters to cancel call waiting. These characters count as part of the 32 allowable characters. No dial tone detect D is required. Dial tone detect is an automatic panel function.

Network Options (XR100N only)

Note: IP addresses and port numbers may need to be assigned by the network administrator. When entering an IP, Gateway, or Subnet Mask address be sure to enter all 12 digits and leave out the periods. For example, IP address 192.168.000.250 is entered as 192168000250.

4.1 DHCP NO **YES**

DHCP Mode Enabled

If the panel uses a dynamic IP address Select **YES**. When set to **YES** the panel must operate in **DHCP** and must not use the **Local IP Address** number. When the **DHCP** option is set to NO, the panel must use the IP address entered in **Local IP Address**. The default value for DHCP mode is **YES**.

4.2 LOCAL IP ADDRESS
192.168.5.227

Local IP Address

Enter the local IP address. The Local IP Address must be unique and cannot be duplicated. The default local IP address is 192.168.0.250.

4.3 GATEWAY ADDRESS
0.0.0.0

Gateway Address

Enter the local gateway address. The Gateway IP Address is needed to exit your local network. The default gateway address is 192.168.0.125.

4.4 SUBNET MASK
255.255.255.0

Subnet Mask

Enter the local subnet mask assigned to the panel. The default subnet mask address is 255.255.255.000.

4.5 PROGRAMMING PORT
2001

Programming Port

Enter the programming port number. The programming port identifies the port used to communicate messages to and from the panel. The default Programming Port setting is 2001.

4.6 TCP COMM: **NO** YES

TCP Comm Enabled

When this option is set to NO, the panel communicates over the network using standard UDP protocol. When this option is set to YES, the panel communicates using TCP protocol. The TCP communications default value is **NO**.

Device Setup

5.1 DEVICE SETUP

Device Setup

This section allows you to define the XR100 Series panel physical configuration. You can install and address up to sixteen **supervised** devices on the keypad data bus.

5.2 DEVICE NO:-
DEVICE 1: **STNDRD**

Device Number

Enter the device number on the keypad bus you are programming. The keypad bus can have up to 8 devices.

Note: After you program each option for the first device, repeat these programming steps for each additional devices.

STD FIRE NONE

STANDARD - The device is either a Security Command keypad, a zone expander device, or a 733 Wiegand Interface Module or 734 Wiegand Interface Module.

FIRE - The device is a Model 630F Remote Fire Command Center.

NONE - No device is set for this address.

5.3 DOOR NAME 1

Door Name

The door name displays. To change the name, press any top row Select key then enter up to 16 characters for the door name. Press COMMAND to continue device setup programming.

5.4 ACCESS AREAS:
1 2 3 4
5 6 7 8

Access Areas

Press the COMMAND key to program Access Areas. To select an area, enter the area number using the digit keys on the keypad. When an area is selected, an asterisk appears next to the area number. Enter the number again to deselect the area. Refer to the Multiple Displays section at the beginning of this document.

Users must have matching access area numbers assigned to their code to receive a door access at this device.

If you do not enter any area numbers, all users with Door Access authority receives a door access without regard to schedules. If the user code is programmed for Anti-Pass YES, then the user is logged into all matching areas. This user is not allowed to access these areas again until they have egressed the area. See Egress Areas.

Note: For an All/Perimeter or Home/Sleep/Away system, Access Areas should be left at factory default settings.

5.5 EGRESS AREAS:
1 2 3 4
5 6 7 8

Egress Areas

Press the COMMAND key to program Egress Areas. To select an area, enter the area number using the digit keys on the keypad. When an area is selected, an asterisk appears next to the area number. Enter the number again to deselect the area. Refer to the Multiple Displays section at the beginning of this document.

Note: For an All/Perimeter or Home/Sleep/Away system, Egress Areas should be left at factory default settings.

Note: If an area is programmed as an access area, it cannot be programmed as an egress area and therefore does not display during Egress Areas programming.

Use this option to detect Anti-passback violations. Anti-passback requires a user to properly exit (egress) an area they have previously accessed. If users fail to exit through the proper card reader location they are not granted access on their next attempt. Users must have matching access area numbers assigned to their profile, to receive a door access at this device. If the user is programmed for Anti-Pass **YES**, then the user is logged out of all matching areas. This allows the user to again access the area. See **Access Areas** section.

If you do not enter any area numbers, all users with Door Access authority receives a door access without regard to schedules. If you are not using the Anti-Pass feature leave **Egress Areas** blank.

5.6 Display Areas

DISPLAY AREAS:			
*1	*2	*3	*4
*5	*6	*7	*8

Press the COMMAND key to program Display Areas. To select an area between 1 and 8, enter the area number using the keypad digit keys. When an area is selected, an asterisk appears next to the area number. Enter the number again to deselect the area. Default is all area numbers. Refer to the Multiple Displays section at the beginning of this document.

Display Areas allows the XR100 Series burglary activities to be segmented so that only specific area(s) and their associated operation appear at a particular keypad. Area number(s) selected in this field affect the way users interact with the system from this particular device. For example: Program Device 1 to show only the zone activities and armed status of Area 1.

Enter the area number(s) that this keypad is to display. This allows specific area control from specific keypads, as well as annunciation of zones assigned to those area(s). When Display Areas is left defaulted (all areas selected), Menu Display and Status List items determine whether zone alarms and troubles display at this device, regardless of area assignment. Also, all system areas may be armed and disarmed from this device.

Note: For an All/Perimeter or Home/Sleep/Away system, Display Areas should be left at factory default settings.

User Action Allowed

When an area(s) is selected, the following user actions are allowed:

- Arming or Disarming of the area(s) selected from the ARM or DISARM menu
- Zone Bypass of zones assigned to the area(s) selected
- Zone Monitor of zone assigned to the area(s) selected
- Shift schedule changes allowed for the area(s) selected
- Closing Check Schedule Extend is allowed for the area(s) selected
- Door Schedules changes are allowed for devices that have a matching area(s) as defined in Device Access Areas
- Door On/Off Menu operation is allowed for devices that have a matching area(s) as defined in Device Access Areas

Note: The previous user actions also require the matching area(s) be programmed in User Profile: Arm/Disarm area(s).

Status Display Allowed

When an area(s) is chosen, the following displays are allowed:

- Armed Status of the selected area(s)
- Zone Alarms and troubles for burglary (NT, DY, EX, A1, A2) type zones assigned to the selected area(s)
- Late to Close status of the selected area(s)
- Zone Status (normal/fault) of zones that are assigned to the selected area(s)

Options and Actions Not Affected

The following options are not affected by the Display Areas operation. The User Code authority level controls access to these items.

- Alarm Silence
- System Status Menu
- Forgive Anti-Passback
- Service Request
- Sensor Reset Menu
- System Test/Panic Test
- Set System Time and Date
- Fire Drill
- Outputs On/Off Menu
- User Profiles
- Display Events
- 24-hour zones display at keypads based on Status List programming only

Note: A common area and its operations cannot be assigned to a specific keypad

Display Areas example: When Device 1 has Display Areas set to 3, 5, and 8, it annunciates troubles and alarms only for zones assigned to those areas. When arming/disarming from Device 1, only areas 3, 5, and 8 may be armed/disarmed, even when the User Profile has authority to arm/disarm other system areas.

Exception: Disarming of other areas not selected in Display Areas can be accomplished by presenting a card that has disarming authority and matching profile areas with areas assigned in Device Access Areas.

5.7 STRIKE TIME: 5

Strike Time

Enter a door access time, between 1 and 250 seconds, during which a keypad or access control device relay is activated. Magnetic locks or electric door strikes are connected to the relay and released for the length of the strike time. Default is 5 seconds.

Enter 0 (zero) to activate the device relay with a toggle action. This allows the user to activate **or** deactivate the device relay each time a valid user code is entered. The device relay is activated **or** deactivated until a user code is entered again.

Note: The Request to Exit door access time of a keypad or Model 733 Wiegand Interface Module is not affected by this selection. It remains at 5 seconds.

5.8 STRIKE DELAY: **0**

Strike Delay

Enter the number of minutes, 0 to 9, to delay a door strike after a valid code is entered or a card read occurs. When a valid code or card read or code is received, the activation of the door strike is delayed for the number of minutes programmed. The standard door strike message is sent to the Central Station receiver and logged in the Display Events at the time of card read or code entry and is not delayed. During this delay, all subsequent codes entered or cards presented to the reader for a door strike are ignored and no record of the attempt is stored. Enter 0 (zero) to disable. Default is 0 (zero).

5.9 FIRE EXIT **NO** YES

Fire Exit Release

Select **YES** to allow the door access relay at this address to be released whenever Fire panic keys are pressed or a Fire or Fire Verify zone alarm is in the Status List. The relay is reset whenever a Sensor Reset is performed to remove all Fire and Fire Verify zone alarms from the Status List. Select **NO** to not allow the door access relay at this address to be released.

5.10 OUT GROUP **NO** YES

Output Group

Select **YES** to allow the output group (relays) assigned to the user profile to turn ON when the device relay is activated for the programmed strike time. This could be used to operate an elevator control. Default is **NO**. See the **User Profiles** section in the Appendix of this document for more information about profiles.

5.11 OVERRIDE **NO** YES

Schedule Override

Use this option to allow door ON/OFF schedules to be overridden by the armed condition of the system. Selecting **YES** causes the on time for a door schedule to be ignored when all areas assigned to Access Areas for this device are armed. Should any area become disarmed after the door schedule on time, the device output turns on. A door output which is on during a disarmed period automatically turns off when all access areas assigned to the device become armed, even if the scheduled off time has not been reached. This feature can be used to keep doors locked when a factory opens late, or is forced to close early, due to a snow storm or other cause. Select **NO** to allow door schedules to operate independent of system armed status.

Note: When **OVERRIDE** is **YES** and there are no areas programmed in **ACCESS AREAS**, the door schedule for that device does not work. Either set **OVERRIDE** to **NO** or enter an area number in **ACCESS AREAS**.

5.12 AUTO FORCE ARM DEVICE? **NO** YES

Auto Force Arm Device?

Select **YES** to have all Display Areas assigned to this keypad automatically arm and force arm faulted zones at arming. The user is not prompted to select areas to arm or force arm faulted zones after choosing ARM at the keypad. If Closing Code is programmed as **YES**, only the matching areas between the Display Areas and the User Code's authorized areas arm. Also, when **YES** is selected, the user is not prompted to select areas to disarm after entering a code at Entry Delay or after choosing Disarm at the keypad. All matching areas assigned to the User Code and to this keypad are automatically disarmed. When **NO is** selected, the user is prompted to select areas (ALL NO YES) and choose to force arm or bypass at arming and disarming. Default is **NO**.

Remote Options

6.1 REMOTE OPTIONS

Remote Options

This section allows you to enter the information needed for Remote Command/ Remote Programming operation.

6.2 RMT KEY:

Remote Key

This option allows you to enter a code of up to eight digits for use in verifying the authority of an alarm or service receiver to perform a remote command/ programming session. The Remote Link™ program must give the correct key to the panel before being allowed any remote functions. All panels are shipped from the factory with the key preset as blank.

To enter a remote key or change the current one, press a top row Select key and enter any combination of up to eight digits. Press COMMAND. The current key never displays.

6.3 MFG AUTH **NO** YES

Manufacturer Authorization

Select YES to allow DMP Technical Support technicians to access the panel during system service or troubleshooting. This authorization automatically expires within one hour.

DMP remote service is provided on a read only basis: DMP technicians can look at the system programming and make suggestions only. Alterations can only be accomplished by installing company service personnel.

6.4 ARM RINGS: 0

Armed Rings

Enter the number of rings the panel counts before answering the phone line when all system areas are armed. Any number from 1 to 15 can be entered. If 0 (zero) is entered, the panel does not answer the phone when all system areas are armed. The default Armed Rings is 0 (zero).

Answering machine bypass procedure: Entering a number greater than 0 (zero) into either Armed Rings or Disarmed Rings, allows a central station operator to connect remotely with the panel.

How it works: The operator calls the panel, allows the telephone to ring one time, and then hangs up. The panel stores this as an attempt to communicate. The operator then calls back within 30 seconds. The panel seizes the telephone line to allow remote programming.

Note: This feature does not interfere with the normal operation of the Arm Rings or Disarm Rings functions.

6.5 DISARM RINGS: 0

Disarmed Rings

Enter the number of rings the panel counts before answering the phone line while any system areas are disarmed. Any number from 1 to 15 can be entered. If 0 (zero) is entered, the panel does not answer the phone when any system area is disarmed. The default number of Disarmed Rings is 0 (zero).

6.6 ALR RCVR **NO** YES

Alarm Receiver Authorization

Select YES to enable remote commands and programming to be accepted from the alarm SCS-1R Receiver. The Remote Key option can also be required.

With YES selected, the panel requests the receiver key during its first communication with the first SCS-1R Receiver. The panel retains this alarm receiver key in memory and allows remote commands to be accepted from the alarm receiver. If an alarm occurs during a remote connect, the alarm report is immediately sent to this receiver only.

When NO is selected, remote commands and programming are not accepted from the alarm SCS-1R Receiver.

6.7 Service Receiver Authorization

SVC RCVR NO **YES**

YES enables remote commands and programming to be accepted from a secondary service receiver other than the alarm SCS-1R Receiver. The Remote Key option can also be required.

With YES selected, the panel requests the service receiver key the first time it is contacted by the service receiver. The panel retains this service receiver key in memory and accepts remote commands from the service receiver.

If an alarm occurs during a remote connect, the panel disconnects from the service receiver and calls the alarm receiver. Alarm reports are only sent to the alarm receiver. It is important that the alarm receiver key and the service receiver key programmed at the central station are NOT the same so the panel can determine the difference between receivers.

When NO is selected remote commands and programming are not accepted from a secondary service receiver.

This option must be YES to allow programming from a directly connected computer or an iCOM/iCOM-E.

6.8 PC Modem

PC MODEM **NO** YES

YES allows the panel to answer the telco link and connect with Remote Link through the PC Modem at 2400 baud. NO disables PC Modem communication.

6.9 Remote Telephone Number

REMOTE PHONE NO.

-

-

Press COMMAND to enter the phone number the panel dials when requesting remote programming. After entering a phone number, the panel allows remote commands and programming only after it has first been called by the authorized receiver, disconnected itself, and redialed the remote phone number.

If a Remote Phone Number is NOT entered, and Alarm Receiver and Service Receiver is YES the panel allows remote commands and programming without disconnecting and redialing. The phone number can have two lines of 16 characters each to equal 32. Enter a P to program a two second pause in the dialing sequence. The P character counts as part of the 32 allowable characters. Enter *70P as the string first characters to cancel call waiting. No dial tone detect "D" is required. Dial tone detect is an automatic panel function.

Note: When not in the Programming Menu, the function 984 + COMMAND can be entered at the keypad, and a remote options menu appears. This menu contains the following options:

NBR RMT PICKUP

NUMBER - The panel allows you to enter into the keypad a phone number you want the panel to dial. Enter any required prefixes and area codes.

REMOTE - The panel dials the phone number programmed in Remote Phone Number.

PICKUP - The panel picks up the phone line when Remote Link™ calls in. The phone must be ringing before selecting PICKUP.

See the Appendix for more information about the 984 + COMMAND feature.

6.10 Remote Disarm

DISARM **NO** YES

YES allows the panel to be disarmed remotely. NO disables remote disarming.

System Reports

7.1 SYSTEM REPORTS

System Reports

Select specific system reports the panel sends to the receiver.

7.2 ABORT **NO** YES

Abort Report

YES allows the panel to send an alarm abort report to the receiver any time an area is disarmed during Transmit Delay before an alarm report is sent and the Bell Cutoff Time has not expired. After disarming an area, if any other area remains armed and has zone(s) in alarm, the alarm abort report is not sent.

If the communication type is set to DD, a Warning: Alarm Bell Silenced report is also sent if the alarm bell is silenced.

Note: Abort Reports are not sent for Fire, Fire Verify, or Supervisory type zones.

7.3 RESTORAL: **YES**

Restoral Reports

This option allows you to control when and if a zone restoral report is sent to the central station receiver. Press any Select key to display the following options:

NO YES DISARM

NO - Disables the zone restoral report option. Zones continue to operate normally but do not send restoral reports to the receiver.

YES - Enables the zone restoral report option. Zone restorals are sent whenever a zone restores from a trouble or alarm condition.

DISARM - Causes the panel to send restoral reports for a non-24-hour zone whenever a zone that has restored from a trouble or alarm condition is disarmed. All 24-hour zones send restoral reports as they restore.

Note: For UL applications, Restoral Reports must be set to YES.

7.4 BYPASS NO **YES**

Bypass Reports

YES allows the panel to send all zone bypasses, resets, and force arm reports to the receiver. The bypass report includes the zone number, zone name, and the user name and number of the individual operating the system. Reports are only sent if O/C User in Communications is set YES for Receiver 1 or Receiver 2.

7.5 SCHD CHG NO **YES**

Schedule Change Reports

YES allows the panel to send all schedule changes to the receiver. The report includes the day, opening time, closing time, extend schedule time, and the user name and number of the individual making the change. Schedule changes made through Remote Link™ are not sent to the printer or Display Events.

7.6 CODE CHG NO **YES**

Code Change Reports

YES allows the panel to send all code additions, changes, and deletions to the receiver. The code change report includes the user name and number added or deleted and the user name and number of the individual making the change. Code changes made through Remote Link™ are not sent to the printer or Display Events. Reports are only sent if O/C User in Communications is set YES for Receiver 1 or Receiver 2. The default setting is YES.

7.7 ACCESS KEYPADS:

Access Keypads

Select the keypad addresses (1 through 8) that send door access reports to the receiver. Enter the keypad number using the digit keys. An asterisk next to the number indicates that the keypad is selected.

A report is sent with each door access made from the selected keypads. Keypads at addresses not selected still operate the door relay but do not send access reports. The report includes the user number, user name, keypad address, and device name.

7.8 AMBUSH **NO** YES

Ambush

YES allows an ambush report to be sent anytime user code number 1 is entered at a keypad. NO disables the ambush report and allows user number 1 to operate the same as all other codes.

System Options

8.1 SYSTEM OPTIONS

System Options

This section allows you to select system-wide parameters.

8.2

SYSTEM: AREA

AREA A/P H/A

System

This option allows you to program how the areas operate for arming and disarming. The options you can choose are listed below:

AREA - All eight areas can be programmed and operated independently.

ALL/PERIMETER - Area 1 is the Perimeter and Area 2 is the Interior.

HOME/SLEEP/AWAY - Area 1 is the Perimeter, Area 2 is the Interior, and Area 3 is the Bedrooms. With the HOME/SLEEP/AWAY option, the user can:

1. Select HOME to arm just the perimeter.
2. Select SLEEP to arm the perimeter and interior (non bedroom areas).
3. Select AWAY to arm all three areas.

   Note: A Home/Sleep/Away system can be configured to use all three areas or only use the Home and Away areas.

When either All/Perimeter or Home/Sleep/Away is selected, the area names are automatically assigned and cannot be modified.

Note: Areas 3-8 in an All/Perimeter system, and areas 4-8 in a Home/Sleep/Away system are not available for use and are initialized.

8.3 CLS WAIT **NO** YES

Closing Wait

When YES is selected, the keypad displays ONE MOMENT... while waiting for an acknowledgement from the receiver before arming the selected area(s) and performing a Bell Test (if selected). Exit delays begin after the Closing Wait. Opening/Closing reports must be YES to enable Closing Wait.

8.4

ENTRY DLY 1: 30

ENTRY DLY 2: 60

ENTRY DLY 3: 90

ENTRY DLY 4: 120

Entry Delay 1

Enter the Entry Delay time for all Exit type zones programmed to use Entry Delay 1. When an armed Exit type zone is faulted, the keypad prewarn tone begins sounding. All keypads programmed to prewarn for that zone display ENTER CODE:- and the name of the zone causing the entry delay. When the first digit of a code is entered, the prewarn tone stops at that keypad. If an invalid code is entered, the prewarn tone begins sounding again. The area must be disarmed before the delay expires or an alarm report is sent to the receiver and an alarm sounds. All zones in that area are delayed along with the Exit zone. Entry Delay times can be from 30 to 250 seconds. Repeat the above for each entry delay being used in the system.

Note: Specific Exit Error operation is based on the Entry Delay used (1-4) with an EX type zone. See Exit Delay.

Note: When the SIA CP-01 option in System Options is set to NO, the first digit entered at the keypad does not stop the prewarn tone.

Note: For UL Installations, the combined Transmit Delay (Abort Window) and Entry Delay must not exceed one (1) minute.

8.5 CRS ZONE TM: 0

Cross Zone Time

Enter the time allowed between zone faults. When zones are cross zoned, the same zone or a second cross zoned zone must fault within this time in order for an alarm report for both zones to be sent to the receiver. If the cross zone time expires without the second zone faulting, only a zone fault from the first zone is reported. Cross-zone time can be from 4 to 250 seconds. Entering 0 (zero) disables this function. Default is 0 (zero). See the Appendix.

8.6 Zone Retard Delay

RETARD DELAY: 10

Enter the retard time assigned to Fire, Supervisory, Auxiliary 1, Auxiliary 2, Arming, and Panic type zones. The retard delay only functions when the zone is shorted. The zone must remain shorted for the entire length of the Retard Delay before being recognized by the panel. The Zone Retard Delay can be from 1 to 250 seconds. Entering a 0 (zero) disables this function.

8.7 Power Fail Delay

PWR FAIL HRS: 1

This option tracks the duration of an AC power failure. When the AC power is off for the length of the programmed delay time, an AC power failure report is sent to the receiver. The delay time can be from 1 to 15 hours. Entering a 0 (zero) sends the power failure report after a 15-second delay. The default setting is 1.

Note: For UL burglary installations Power Fail Delay shall be programmed to 0 (zero).

Note: For UL fire installations, Power Fail Delay shall be programmed as required by the service of the panel. For Central Station service: 6-12, for Remote Station service: 12-15.

8.8 Swinger Bypass Trips

SWGRBYPS TRIPS: 1

Enter the number of times (1 or 2) a zone can go into an alarm or trouble condition within one hour before being automatically bypassed. You can select one or two trips. Bypassed zones are automatically reset when the area they are assigned to is disarmed. All 24-hour zones are reset when any area of the system is disarmed. A programming Stop operation restores a bypassed zone. Entering 0 (zero) disables this function. Default is 1.

How it works

The panel hour timer starts at 59 minutes past the hour. If the hour timer expires before the trip counter is exceeded, the trip counter returns to 0 (zero). If the trip counter is exceeded before the hour expires, the zone is automatically bypassed by the panel. A Bypass Report is sent to the receiver if Bypass Reports is YES.

Note: Not investigated by UL.

8.9 Reset Swinger Bypass

RST SBYP **NO** YES

When YES is selected, an automatically bypassed zone is reset if it remains in a normal condition for one complete hour after being bypassed. A report of the automatic reset is sent to the receiver if Bypass Reports has been selected as YES. Default is NO.

Note: Not investigated by UL.

8.10 Video/Alarm Verification

VIDEO **NO** YES

Selecting YES forces the panel to wait for 60 seconds after a successful communication with a central station receiver before making any additional communication attempts. This 60-second period can be used to allow video transmission or alarm verification (such as 2-way voice) equipment to use the phone line. After the 60-second timer, the panel can once again seize the phone line and send any reports being buffered.

The Video option must be set to NO if any fire protection is connected to the panel.

Note: Not investigated by UL.

8.11 Time Zone Changes

TIME CHG NO **YES**

This function allows the panel to request automatic time changes from the DMP SCS-1R Receiver. For the receiver to send time changes, it must be programmed to send time changes and must be receiving time change updates from the network automation computer at least every 24 hours. Default is YES.

HRS FROM GMT: 6

When time zone is programmed YES, enter the number (0-23) that indicates the Greenwich Time zone (GMT) where the panel is located. The default is 6.

GMT	City/Time Zone
0	London, Monrovia, Lisbon, Dublin, Casablanca, Edinburgh
1	Cape Verde Island, Azores
2	Mid-Atlantic, Fernando de Noronha
3	Buenos Aires, Georgetown, Brasilia, Rio de Janeiro
4	Atlantic Time (Canada), Caracas, La Paz, Santiago
5	Eastern Time (US, Canada) Bogota, Lima, Arequipa
6	Central Time (US, Canada), Mexico City, Saskatchewan
7	Mountain Time (US, Canada), Edmonton
8	Pacific Time (US, Canada), Tijuana
9	Alaska
10	Hawaii
11	Midway Island, Samoa
12	Fiji, Marshall Island, Wellington, Auckland, Kwajalein, Kamchatka

GMT	City/Time Zone
13	New Cadelonia
14	Guam, Sydney
15	Tokyo, Seoul
16	Hong Kong, Singapore
17	Bangkok, Hanoi
18	Dhaka, Almaty
19	Islamabad, Karachi
20	Abu Dhabi, Kazan
21	Moscow, Bagdad
22	Eastern Europe
23	Rome, Paris, Berlin

8.12 Latch Supervisory Zones

LATCH SV NO **YES**

Selecting YES latches supervisory zone alarms on the keypad display until the sensor reset operation is performed. Selecting NO automatically clears the alarm from the keypad display when the supervisory zone restores to a normal condition. Default is YES.

8.13 Programming Menu Language

PROG LANGUAGE

Press the COMMAND key to select the programming language(s). Any changes in PROG LANGUAGE do not take effect until the STOP routine completes.

PRI LANG: **ENGLSH**

The current primary programming language displays. The default language is English. Press a Select key to change the primary programming language.

ENG SPN FRN

Select the primary programming language.
ENG = English (ENGLISH)
SPN = Spanish (ESPANOL)
FRN = French (FRANCAIS)

SEC LANG: **NONE**

The current secondary programming language displays. Selecting a secondary language allows the installer to view programming in English, Spanish, or French. When the Programming Menu is accessed, the installer is prompted to choose the programming display language. If SEC LANG: is set to NONE, the option to choose a language does not display. To select a secondary language, press the Select key below the language. Default is NONE.

NONE ENG SPN FRN

Select the secondary programming language.
NONE = No secondary language options are displayed
ENG = English (ENGLISH)
SPN = Spanish (ESPANOL)
FRN = French (FRANCAIS)

8.14 User Menu and Status List Language

USER LANGUAGE

Press the COMMAND key to select User language(s).

PRI LANG: **ENGLSH**

The current primary user language displays. The default language is English. Press a Select key to change the primary User language.

ENG SPN FRN

Select the primary user language.
ENG = English (ENGLISH)
SPN = Spanish (ESPANOL)
FRN = French (FRANCAIS)

SEC LANG: **NONE**

The current secondary user language displays. Selecting a secondary user language allows the user to view the User Menu and Status List text in English, Spanish, or French. When the User Menu is accessed, the user is prompted to choose the display language. Status List text displays in the selected language until another language is chosen. If SEC LANG: is set to NONE, the option to choose a language does not display. To select a secondary language, press the Select key below the language. Default is NONE.

For example, when Spanish is selected at a keypad, the User Menu and Status List text display in Spanish at **that** keypad. When the user later accesses the keypad, pressing the COMMAND key once displays the option for English, Spanish, or French. Pressing the COMMAND key again continues to display the Status List text in Spanish. Later on, if English or French is selected at **that** keypad, the User Menu and Status List text display in the selected language at **that** keypad.

NONE ENG SPN FRN

Select the secondary user language.
NONE = No secondary language options are displayed
ENG = English (ENGLISH)
SPN = Spanish (ESPANOL)
FRN = French (FRANCAIS)

8.15 Bypass Limit

BYPASS LIMIT **0**

Enter the maximum number of zones (0 to 8) that can be bypassed in any single area when that area is being armed at a keypad. If more zones than the limit are in a non-normal state or already bypassed at arming, arming does not occur and Arming Stopped displays. The Bypass limit does not affect auto arming, keyswitch arming, or remote arming. Entering 0 (zero) allows no limit. Default is 0 (zero).

8.16 House Code

WIRELESS
HOUSE CODE: XX

When using a DMP wireless system, enter a house code between 1 and 50. When using FA Series wireless enter 99. See Wireless programming in Zone Information. Default is 0 indicating no wireless system is being used.

The DMP house code identifies the panel, DMP receiver, and DMP transmitters to each other. When operating, the DMP receiver listens for transmissions that have the programmed house code and transmitter serial number.

Note: The flexibility of DMP two-way wireless operation allows an existing house code to be changed in the panel at any time. The transmitters may take up to two minutes to learn the new house code and continue operation.

Note: When any wireless zone programming is changed in the panel, wireless receiver zone programming is updated. At that point, all wireless zones display as normal for approximately 1 minute, regardless of the actual state of the zone.

8.17 Detect Wireless Jamming

DETECT WIRELESS
JAMMING: **NO** YES

This option displays when the House Code entered is for a DMP 1100 Series Wireless system (1-50). When enabled and the wireless receiver detects jamming, a trouble or alarm message displays in the Status List and is sent to the central station receiver. Select YES to enable jamming messages to display in the Status List. Select NO to disable jamming messages. Default is NO.

8.18 Enable Keypad Panic Keys

KEYPAD PANIC KEYS
ENABLED: NO **YES**

This option allows the two-button panic key operation selected at the keypad to send the Panic, Emergency, or Fire message to the central station receiver. Select YES to enable the two-button panic operation to operate. To disable the two-button panic operation, select NO. Default is YES.

8.19 SIA CP-01

SIA CP-01: NO **YES**

Select YES to allow the panel to operate according to ANSI/SIA CP-01 standards for the following operations. Select NO to enable standard DMP operation. Default is YES. When YES is selected:

Power Up and Stop Routine

— the 60 second zone startup delay is turned on.

Keypress Alarm Silence

— during an alarm, the keypad alarm and bell output turn off when the first key is pressed at a keypad.

Entry Delay

— entering the first digit of a code at the keypad stops the prewarn tone.

Exit Delay

— the keypad Exit Delay displays and annunciates a tone at 8 second intervals until the last 10 seconds when annunciation is at 3 second intervals.

Exit Error Operation for Entry Delay 1

When the exit zone is faulted (door still open) at the end of the exit delay:

— the bell sounds for the length of time set in Bell Cutoff programming
— the Entry Delay operation starts, requiring code entry to disarm
— if not disarmed, a zone alarm and an Exit Error are sent to the receiver

Automatic Disarming Operation

— The Interior automatically disarms if a Perimeter exit zone is not tripped during the Exit Delay time when arming All or Away.

Output Options

9.1 OUTPUT OPTIONS

Output Options

This function allows you to program the panel Bell Output functions and certain Relay Output options. Dry contact relays and voltage outputs are available using the output harness on the XR100 Series board. Refer to the XR100 Series Installation Guide (LT-0899) for complete information.

Any Output Option can be used with output numbers 1 to 6, 500 to 599, D1 to D8, and G1 to G20.

9.2 BELL CUTOFF: 15

Bell Cutoff Time

Enter the maximum time from 1 to 99 minutes the Bell Output remains on. If the area is disarmed, the cutoff time resets. Enter 0 (zero) to provide continuous bell output. The default is 15 minutes.

Note: For SIA CP-01 False Alarm Reduction Installations, the Bell Cutoff Time must be set to a minimum of six (6) minutes.

9.3 BELL TST **NO** YES

Automatic Bell Test

Select YES to turn on the Bell Output for 2 seconds each time the system is completely armed from a **keypad**. This test is delayed until the Closing Wait acknowledge is received (if selected). If the Closing Wait acknowledge is not received within 90 seconds, the bell test does not occur. Arming performed from an Arming zone or from Remote Link™ does not activate the Bell Test.

9.4 BELL ACTION . . . . .

Bell Action

This section defines the type of Bell Output for zone alarms. Press COMMAND to display the default Bell Output for each zone type. Press any Select key and enter S for a Steady Bell Output, P for a Pulsed output, T for a Temporal Code 3 output, and N for no Bell Output.

Note: Trouble conditions do not activate the Bell Output.

9.4.1 FIRE TYPE: P

Fire Bell Action

Defines Bell Action for Fire Type zones. The default is P.

9.4.2 BURGLARY TYPE: S

Burglary Bell Action

Defines Bell Action for Burglary Type zones and Exit Error output. The default is set at S.

9.4.3 SUPRVSRY TYPE: N

Supervisory Bell Action

Defines Bell Action for Supervisory Type zones. The default is set at N.

9.4.4 PANIC TYPE: N

Panic Bell Action

Defines Bell Action for Panic Type zones. The default is set at N.

9.4.5 EMERGNCY TYPE: N

Emergency Bell Action

Defines Bell Action for Emergency Type zones. The default is set at N.

9.4.6 AUXLRY 1 TYPE: N

Auxiliary 1 Bell Action

Defines Bell Action for Auxiliary 1 Type zones. The default is set at N.

9.4.7 AUXLRY 2 TYPE: N

Auxiliary 2 Bell Action

Defines Bell Action for Auxiliary 2 Type zones. The default is set at N.

9.5 OUTPUT ACTION . . .

Output Action

This option allows you to define the XR100 Series relay outputs operation. The panel provides two Form C relays (1 and 2) and four open collector outputs numbered 3 to 6. Expand the system up to 100 additional relay outputs (numbered 500 to 599) using J22 LX-Bus on the panel and multiple 716 Output Expander Modules. Program keypad door strike relays by entering D1 to D8 for addresses 1 to 8. Program output groups by entering G1 to G20.

9.5.1 CO OUTS: - - - - - - Cutoff Output

Outputs 1 to 6 can be entered here to turn off after a time specified in CUTOFF TIME. To disable this option, press any Select key to clear the display then press COMMAND. The Cutoff Output displays NONE when no outputs are selected.

9.5.2 CUTOFF TIME: 0 Output Cutoff Time

If a Cutoff Output is assigned, enter a Cutoff Time of 1 to 99 minutes for the output to remain on. Enter 0 (zero) for continuous output.

9.5.3 COMM FAIL OUT: 0 Communication Fail Output

Enter the output number to turn on when a DD system fails to communicate on three successive dial attempts or if the backup communication line transmits a report. The Communication Fail Output also turns on when NET is selected as the primary communication method and NET communication fails after one minute. When NET communication is restored the Communication Fail Output automatically turns off.

To manually turn the output off, disarm any area or select Off for the output number in the User Menu Outputs On/Off section. Enter 0 (zero) to disable this output.

9.5.4 FIRE ALR OUT: 0 Fire Alarm Output

Enter the output number to turn on when a fire type zone is placed in alarm. The output is turned off using the Sensor Reset option while no additional fire type zones are in alarm. Enter 0 (zero) to disable. This output is not compatible with Cutoff Outputs.

9.5.5 FIRE TRB OUT: 0 Fire Trouble Output

Enter the output number to turn on when a fire type zone is placed in trouble, when a supervisory type zone is placed in alarm or trouble, or when any system monitor (AC, Battery, Phone Line 1 or Phone Line 2) is placed in trouble. The output turns off when all fire and supervisory type zones, or system monitors are restored to normal. Enter 0 (zero) to disable this output. This output is not compatible with Cutoff Outputs. This output can be connected to a lamp, LED, or buzzer using the DMP Model 716 Output Expansion Module.

9.5.6 PANIC ALM OUT: 0 Panic Alarm Output

Enter the output number to turn on when any Panic type zone is placed in an alarm condition. The output is turned off after all Panic zones are restored from an alarm condition and a Sensor Reset is performed. Enter 0 (zero) to disable.

9.5.7 AMBUSH OUT: 0 Ambush Output

Enter the output number to turn on when an Ambush code is entered at a keypad. The output is turned off using the Sensor Reset option. Enter 0 (zero) to disable.

9.5.8 ENTRY OUT: 0 Entry Output

Enter the output number to turn on at the start of the entry delay time. The output turns off when the area is disarmed or the entry delay time expires. Enter 0 (zero) to disable.

9.5.9 EXIT OUT: 0 Exit Output

Enter the output number to turn on when an exit delay time starts in any area of the system. The output turns off when the area arms or when the arming has been stopped. Enter 0 (zero) to disable.

9.5.10 READY OUT: 0 Ready Output

Enter the output number to turn on when all disarmed burglary zones are in a normal state. The output is turned off when any disarmed burglary type zone is in a bad state. Enter 0 (zero) to disable. This output is not compatible with Cutoff Outputs.

9.5.11 PH TRBL OUT: 0

Telephone Trouble Output

Enter the output number to turn on when the phone line monitor detects a voltage below 3 VDC. The output is turned off when phone voltage rises above 3 VDC. Enter 0 (zero) to disable this output. This output can be connected to a lamp, LED, or buzzer using the DMP Model 716 Output Expansion Module.

9.5.12 LATE CLS OUT: 0

Late To Close Output

Enter the output number to turn on at the expiration of a Closing schedule. The output activates simultaneously with the CLOSING TIME! keypad display. The output is turned off when the area is armed, the Closing is extended, or the schedule is changed. Enter 0 (zero) to disable this output.

9.5.13 DVC FAIL OUT: 0

Device Fail Output

Enter the output number to turn on when an addressed device fails to respond to polling from the panel. A Missing Device report is sent to the receiver. The output is turned off when the device responds to polling or is removed from the system. Enter 0 (zero) to disable this output and LX-Bus™ device fail reporting to the receiver. If any addressed device is unsupervised, this output cannot be used.

9.5.14 SNSR RST OUT: 0

Sensor Reset Output

Enter the output number to turn on when a Sensor Reset is performed at a keypad. The output turns off automatically 5 seconds later. This function can be used to reset smoke detectors that are operated by an external power supply through a Model 716 Output Expander Module. Enter 0 (zero) to disable this output.

9.5.15 CLS WAIT OUT: 0

Closing Wait Output

Enter the output number to turn on for approximately four (4) seconds when Closing Wait is programmed as YES and the panel successfully communicates the closing message at arming. If the closing message does not communicate successfully, this output does not turn on.

9.6 OUTPUT NAMES . . .

Output Names

This section allows you to define a 16 character alphanumeric name for any or all 506 output numbers. The name can display on the keypad when a user performs the browser feature at Outputs On/Off. See the XR500/XR100 User's Guide (LT-0683) Appendix for browser operation.

9.6.1 OUTPUT NO: -

Output Number

Enter an output number (1 to 6, 500 to 599).

9.6.2 OUTPUT NAME X X X

Output Name

The output name displays. To change the default name, press any top row Select key then enter up to 16 characters for the output name. Press COMMAND to enter the next output number.

Output Groups

10.1 OUTPUT GROUPS

Output Groups

This function allows you to assign outputs to groups. Output groups can be assigned to other areas of programming such as Output Options or Alarm Action of Zone Information, just like single outputs are assigned. This allows the entire group of outputs to turn on and off as required by the programming option.

10.2 GROUP NO: -

Group Number

Enter a group number from 1 to 20. Up to 20 different groups may be assigned.

10.3 GROUP NAME X X

Group Name

The group name displays. To change the default name, press any top row Select key then enter up to 16 characters for the group name. Press COMMAND to enter the outputs to be assigned to the group.

10.4

OUTPUT NO 1: 0
OUTPUT NO 2: 0
OUTPUT NO 3: 0
OUTPUT NO 4: 0
OUTPUT NO 5: 0
OUTPUT NO 6: 0
OUTPUT NO 7: 0
OUTPUT NO 8: 0

Output Number

Enter the Output number. Entry range is 1 to 6, 500 to 599 (outputs), D1 to D8 (doors), and G1 to G20 (groups). The maximum number of outputs that can be assigned to a specific group is eight.

An output group may be assigned as one of the output numbers in another output group.

Example: Output Group 1 consists of only four assigned outputs. Output Group 1 could be assigned as one output in Output Group 2. Output Group 2 could still have 7 other outputs assigned to that group. When Output Group 2 is turned on, 11 outputs could be turned on. This allows Output Groups to be assigned within other Output Groups providing many combinations.

Output groups 1 to 10 can be assigned by a user profile for applications such as elevator control. See the XR500/XR100 User's Guide (LT-0683) Output Group section for additional information.

Output groups 11 to 20 cannot be assigned to a profile and are available for installation applications such as special lighting, etc. To assign these groups to a profile, use Remote Link™ or System Link™ software from DMP.

Menu Display

11.1 MENU DISPLAY — Menu Display

Menu Display allows you to select at which keypad addresses the user can access the following functions.

To select a keypad, enter the device number (keypad address) using the digit keys on the keypad. When a keypad is selected, an asterisk appears next to the keypad address. Enter the number again to deselect the keypad. Refer to the Multiple Displays section at the beginning of this document.

11.2 ARMED STATUS: — Armed Status

1	2	3	4
5	6	7	8

Enter the keypad addresses (1 through 8) that show the armed areas. The User Menu Armed Areas function also displays the custom area name you enter in Area Information.

11.3 TIME DISPLAY: — Time

Enter the keypad addresses that can display the time and day of the week.

11.4 ARM/DIS DISPLAY: — Arm/Disarm

Enter the keypad addresses from which users can arm and disarm areas.

Status List

12.1 Status List

STATUS LIST

This function allows you to select the zone alarms and troubles, and system monitor troubles displayed at the keypads. The Status List function operates automatically when the keypad is not performing any other function.

The keypad stays in the Status List until the user arms or disarms or selects a menu option. Status List alternates with the Armed Status on keypad addresses selected in the **Menu Display - Armed Status** section. You can choose to have System Monitor troubles placed in the list, the different zone types placed in the list, and at which keypad addresses they display.

To select a keypad, enter the device number (keypad address) using the digit keys on the keypad. When a keypad is selected, an asterisk appears next to the keypad address. Enter the number again to deselect the keypad. Refer to the Multiple Displays section at the beginning of this document.

12.2 Display Keypads

DISPLAY KEYPADS:

This option defines which keypad addresses display the various status information. Any combination of addresses can be entered to display the status items that follow. If you do not want a particular status item to display, do not enter any addresses.

12.3 System Monitor Troubles

SYSTEM TROUBLES:

1	2	3	4
5	6	7	8

Specifies the keypad addresses (1 through 8) where any trouble on a System Monitor displays. The System Monitors include the following:

- AC Power
- Battery Power
- Closing Check
- Panel Box Tamper
- Phone Line 1
- Phone Line 2 (requires the 893A Dual Phone Line Module)
- Wireless Trouble
- Wireless Jamming Trouble
- Wireless Jamming Alarm

The System Monitor name is placed in the Status List and the keypad steady trouble buzzer sounds. The buzzer remains on until any keypad top row Select key is pressed. The name remains in the list until the condition is restored. The buzzer sounds at 10:00 am daily until the system trouble is cleared from the Status List.

12.4 Fire Zones

FIRE ZONES:

1	2	3	4
5	6	7	8

Specifies the keypad addresses (1 through 8) where all fire zone alarms and troubles display. The zone name displays and, if it is a trouble condition, the keypad steady trouble buzzer sounds. The buzzer remains on until any top row Select key is pressed and a user code is entered. If a trouble condition remains in the display, the buzzer sounds at 10:00 am daily until the trouble is cleared from the Status List.

When using LCD Keypads, the panel provides distinct speaker tones from the keypad for Fire:

On - Fire zone alarm and Bell Output or Fire Bell Output is ON.

Off - Alarm Silence

12.5 Burglary Zones

BURGLARY ZONES:

1	2	3	4
5	6	7	8

Specifies the keypad addresses (1 through 8) where all burglary zone alarms and troubles display. Burglary zones include Night, Day, and Exit type zones. Burglary zone troubles remain in the list until the zone restores. All keypads are selected by default.

For zone alarms, only the last burglary zone tripped remains in the list. The alarm remains in the list until another burglary zone goes into alarm, any area of the system is disarmed. This ensures that if a burglary is in progress the last zone tripped remains in the list even if the zone is restored.

The keypad buzzer sounds for one second on burglary alarms.

When using LCD Keypads, the panel provides distinct speaker tones from the keypad for Burglary:

On - Burglary zone alarm and Bell Output or Burglary Bell Output is ON.

Off - Alarm Silence.

You can further define which keypad address shows a Burglary Zone event by entering that area number in the Display Areas menu during Device Setup.

12.6 Supervisory Zones

SPRVISORY ZONES:

1	2	3	4
5	6	7	8

Specifies the keypad addresses (1 through 8) where all supervisory zone alarms and troubles display. Supervisory zones are entered in the status list and sound the keypad buzzer until a valid user code is entered at any keypad address. If a trouble condition remains in the display, the buzzer sounds at 10:00 am daily until the supervisory trouble is cleared from the Status List.

12.7 Panic Zones

PANIC ZONES:

1	2	3	4
5	6	7	8

Specifies the keypad addresses (1 through 8) where all panic zone alarms and troubles display. The name of the zone remains in the list until the zone restores. The keypad buzzer does not sound for panic alarms or troubles.

12.8 Emergency Zones

EMERGENCY ZONES:

1	2	3	4
5	6	7	8

Specifies the keypad addresses (1 through 8) where all emergency zone alarms and troubles display. The name of the zone remains in the list until the zone restores. The keypad buzzer does not sound for emergency alarms or troubles.

12.9 Auxiliary 1 Zones

AUX 1 ZONES:

1	2	3	4
5	6	7	8

Specifies the keypad addresses (1 through 8) where all Auxiliary 1 zone alarms and troubles display. The name of the zone remains in the list until the zone restores. The keypad buzzer does not sound for Auxiliary 1 alarms or troubles.

You can further define which keypad address shows an Auxiliary 1 Zone event by entering that area number in the Display Areas menu during Device Setup.

12.10 Auxiliary 2 Zones

AUX 2 ZONES:

1	2	3	4
5	6	7	8

Specifies the keypad addresses (1 through 8) where all Auxiliary 2 zone alarms and troubles display. The name of the zone remains in the list until the zone restores. The keypad buzzer does not sound for Auxiliary 2 alarms or troubles.

You can further define which keypad address shows an Auxiliary 2 Zone event by entering that area number in the Display Areas menu during Device Setup.

PC Log Reports

13.1 PC LOG REPORTS

PC Log Reports

This section allows you to program the types of PC Log Reports the panel sends through the J1 network connector directly on the XR100N panel. The reports include information such as the type of activity, time and date of the activity, and user name and number. These data reports can be accessed from a PC using the Advanced Reporting Module.

Note: The network connection that sends PC Log Reports is not monitored for network trouble. The PC Log Reports option should NOT replace the primary communication method or act as a backup communication method.

If there is trouble with the network connection, the panel continues to attempt to send the PC Log Reports until the connection is reestablished. The panel then sends the reports. A Network Trouble message is **NOT** sent if the connection is lost since this report tool is not designed to be monitored by a receiver. The PC Log Reports have the lowest priority of panel reports sent.

13.2 PC LOG ADDRESS:
-
-

PC Log Address

Press COMMAND to enter up to two lines of 16 characters to equal up to 32 characters for the IP address string that is sent to the network device. This option allows PC Log messages to be sent to a PC through an IP Network.

Note: The PC Log Address String entered CANNOT be the same as that entered in Communication.

13.3 ARM/DIS **NO** YES

Arm and Disarm Reports

Sends arming, disarming and Late to Close events. Includes the area number, name and action, the user number and name, and the time and date.

13.4 ZONE **NO** YES

Zone Reports

Sends changes in the status of active zones. Includes the zone number, name, type, the action (alarm, trouble, bypass, etc.), user number (if applicable), and area name. For a Walk Test, Verify and Fail messages are sent for each zone.

13.5 USR CMDS **NO** YES

User Command Reports

Sends user code changes, schedule changes, and door access denied events.

13.6 DOOR ACS **NO** YES

Door Access Reports

Sends door access activity: door number, user number and name, and time and date.

13.7 SUPV MSG **NO** YES

Supervisory Reports

Sends system monitor reports, such as AC and battery, and system event reports. Supervisory Reports also sends the following reports:

- Abort
- System Recently Armed
- *Late to Close
- Exit Error
- Alarm Bell Silenced
- Ambush
- Unauthorized Entry

* Only sent as a Supervisory Report if **Area Schedules** is not enabled, **Closing Check** is enabled, and an opening/closing schedule has been programmed.

Note: To send these reports to the PC Log, you must enable SUPV MSG.

Area Information

14.1 AREA INFORMATION — Area Information

Allows you to assign functions to the different areas in the system. All non-24-hour zones must be assigned to an active area. See Zone Information.

You activate an area by assigning it a name. See Area Name. A name is given to each active area in place of a number to assist the user during arming and disarming. The Armed Status display is 1 2 3 4 5 6 7 8.

14.2 EXIT DELAY: 60 — Exit Delay

Enter the exit delay time for all Exit type zones in this area. When the exit delay time starts, all activity on that zone and other non-24-hour zone types in the area is ignored until the exit delay expires. The keypad displays the Exit Delay time countdown and annunciates the Exit Delay tone at 8 second intervals until the last 10 seconds when annunciation is at 3 second intervals.

The exit delay can be from 45 to 250 seconds. Default is 60 seconds.

During Exit Delay, if an exit zone trips, then restores, and trips again, the Exit Delay timer restarts. This restart can occur only once. The Exit Delay restart is disabled when programmed for ULAA High Line Security operation.

Note: When the SIA CP-01 option in System Options is set to NO, the exit delay countdown displays but progress annunciation does not occur.

Exit Error Operation: At arming, when an entry/exit zone (EX) is **faulted** at the end of the exit delay then one of two sequences occur:

For Entry Delay 1 EX type zones:

- the bell sounds for the length of time set in Bell Cutoff programming.
- the Entry Delay operation starts requiring code entry to disarm
- if not disarmed, a zone alarm and an exit error are sent to the receiver.

For Entry Delay 2-4 EX type zones:

- the zone is force armed and a zone force arm message is sent to the receiver
- an Exit Error is sent to the receiver
- the bell sounds for two (2) seconds.

Note: When the SIA CP-01 option in System Options is set to NO, Entry Delay 1 operates as described for Entry Delay 2-4 above.

14.3 BURG BELL OUT: 0 — Burglary Bell Output

Enter the output number (0 to 6, 500 to 599, G1 to G20, or D1 to D8) that is turned on any time a Burglary type zone is placed in alarm. The output is turned off when you disarm any area and no other Burglary type zones are in alarm. The output can also be turned off using the Alarm Silence option in the User Menu or by entering a user code with the authority to silence alarms. The duration of this bell output follows the time entered in the System Options/Bell Cutoff Time prompt. See the **Output Options - Bell Cutoff Time** section. If Bell Test is selected **YES,** the Burglary Bell Output entered here is turned on for two seconds each time the system is armed.

14.4 O/C RPTS NO **YES** — Opening/Closing Reports

This option allows an Opening report to be sent to the receiver whenever any area is disarmed. A Closing report is also sent to the receiver when any area is armed.

14.5 CLS CHK **NO** YES

Closing Check

Select YES to enable the panel to verify that all areas in the system are armed after permanent or extended schedules expire. If the Closing Check finds any areas disarmed past the scheduled time, the keypads selected to display System Trouble Status displays CLOSING TIME! and emits a steady beep. When Area Schedules is set to YES in Area Information, the specific area and name display followed by — LATE.

When Auto Arm is NO, if within ten minutes the system is not armed or if the schedule is not extended, a Late to Close report is sent to the SCS-1/SCS-1R Receiver. When Auto Arm is YES, the area arms. See Automatic Arming section.

If the area becomes disarmed outside of any schedule, the Closing Check sequence occurs after the Late Arm Delay time. See Late Arm Delay.

When Closing Check is NO and Auto Arm is YES, the system immediately arms when the schedule expires. No warning tone occurs.

In addition, when Closing Check is NO, the option to extend a schedule does not display when the schedule expires.

14.6 CLS CODE **NO** YES

Closing Code

When YES is selected, a code number is required for system arming. If NO is selected, a code number is not required for system arming.

14.7 ANY BYPS **NO** YES

Any Bypass

When YES is selected, zones can be bypassed without a code number during the arming sequence. A code number is always required to use the Bypass Zones option from the menu.

14.8 AREA SCH **NO** YES

Area Schedules

Select **YES** to allow each area to set its own shift schedules 1 to 4. Enter **NO** to provide one set of schedules for this system.

Note: Area Schedules are not designed to operate with All/Perimeter or Home/Sleep/Away systems.

14.9.1

AREA NO: -

Area Number

Enter the number of the area to programming. After entering the area number, press COMMAND to enter the area name.

Note: When All/Perimeter or Home/Sleep/Away is selected as the system type, the Area Number does not display.

14.9.2

INT PERIM

All/Perimeter Programming

When All/Perimeter is selected as the system type, program the Interior and Perimeter areas as needed.

14.9.3

INT BDRM PERIM

Home/Sleep/Away Programming

When Home/Sleep/Away is selected as the system type, program the Interior, Bedroom, and Perimeter areas as needed.

14.10 * UNUSED *

Area Name

The area name can be up to 16 alphanumeric characters. To add an area name to the system, press any Select key and then enter up to 16 characters for the new area name. Press COMMAND to continue. For instructions on entering alphanumeric characters see section 1.7 Entering Alpha Characters. Inactive areas are marked * UNUSED *.

To mark an active area unused, press any top row Select key to delete the old name, then press the COMMAND key. The programmer automatically programs the name as *UNUSED*. If you have already cleared Area Information during Initialization, all areas are marked * UNUSED *. See Initialization section.

14.11 ACCOUNT NO: 12345 Account Number

Enter the account number to be sent to the receiver for this area. Choose an account number compatible with the Communication Type selected in Communications. The default Account Number is the one previously entered.

14.12 AUTO ARM **NO** YES Automatic Arming

Select YES to allow this area to arm automatically according to permanent, temporary, or extended schedules. If no schedules are programmed, the area auto arms every hour.

If closing check is selected as YES, the automatic arming function does not take place until the expiration of a ten minute Closing Check delay. See Closing Check. If the area has been disarmed outside of any permanent or temporary schedule, the closing check sequence occurs one hour after the area is disarmed.

At arming, bad zones are handled according to the option selected in section Bad Zones. If a closing report is sent, the user number is indicated as SCH on the SCS-1R Receiver. NO disables automatic arming for this area.

Note: For ANSI/SIA CP-01 UL installations, Automatic Arming cannot be used for arming.

14.13 BAD ZONES: **BYP** Bad Zones

At the time of automatic arming, some zones in the area may not be in a normal condition. This option allows you to program the panel response to these bad zones. This option does not display if AUTO ARM is NO.

BYP FORC REF

BYP - All bad zones are bypassed. A report of the bypass is sent to the receiver if Bypass Reports is YES. The report indicates SCH as the user number.

FORC - All bad zones are force armed. Zones force armed in a bad condition are capable of restoring and reporting an alarm if tripped. A forced zone report is transmitted if Bypass Reports is YES. The report indicates SCH as the user number.

REF - The automatic arming is refused and no arming takes place. A No Closing report is sent to the receiver regardless of the Closing Check selection.

14.14 AUTO DIS **NO** YES Automatic Disarming

NO disables automatic disarming by schedule for this area. When YES is selected, the area automatically disarms according to permanent or temporary schedules. If an opening report is sent to the receiver, the user number is indicated as SCH.

Note: For ANSI/SIA CP-01 UL installations, Automatic Disarming cannot be used for disarming.

14.15 ARMED OUTPUT: 0 Armed Output Number

Enter the output to turn on when this area is armed. If an exit delay is used for this area, the Armed Output will turn on at the start of the exit delay. The output is turned off when this area is disarmed. The output cannot be turned on from the User Menu Outputs On/Off option.

14.16 LATE OUTPUT: 0 Late Output Number

Enter the output to turn on when this area is not armed by its scheduled time and Area Late or Closing Time displays at a keypad and the keypad buzzer is on. The output is turned off when the keypad buzzer is silenced by pressing any key. Default is 0 (zero).

14.17 LATE/ARM DLY: **60** Late Arm Delay

Enter 4 to 250 minutes to delay before automatic re-arming occurs after the area becomes disarmed outside of schedules. See Closing Check. Default is 60 minutes.

Note: The Late Arm Delay can be superseded by the Re Arm Delay setting of the User Profile assigned to the user who disarmed the area. Refer to the Re Arm Delay section in the XR100 Series User's Guide (LT-0683).

14.18 COMMON **NO** YES Common Area

Select **YES** to enable this area to operate as a common area. This area is armed when the last area in the system is armed and is disarmed when the first area in the system is disarmed. You can have multiple common areas in each system. For the common area to work properly, do not assign the common area to any user code. When a user code can arm and disarm the common area from a keypad at any time, the common area does not function as a common area.

14.19 ARM FIRST **NO** YES Arm First Area

Select **YES** to enable this area to operate as an Arm First area. This area is automatically armed when any non-Arm First area assigned to the same keypad is armed but does not disarm when other areas become disarmed. Assign areas to keypads using the Display Areas option in Device Setup programming. You can have multiple Arm First areas in a system and divide them among keypads if needed. If an Arm First area has faulted zones that cannot be bypassed, arming stops and the areas are not armed. Correct the problem with the Arm First area and then begin the arming process again. Default value is **NO**.

Note: The Arm First automatic arming only occurs when arming from a keypad. Arming from a zone, schedule, or remotely is not affected and Arm First areas do not automatically arm.

Zone Information

15.1 ZONE INFORMATION — Zone Information

Zone Information allows you to define the operation of each protection zone used in the system. All protection zones, whether located on a command processor panel, Security Command keypad, or zone expander are programmed the same way.

15.2 ZONE NO: - — Zone Number

Enter the number of the zone you intend to program. Available zone numbers are shown in the table below. The keypad zone numbers begin with the keypad address and are followed by the particular zone from that keypad. For example, a 7073 at keypad address 7 would provide zones 71, 72, 73, and 74.

Press COMMAND to enter a zone name.

Address	Programming Zone Number
Panel	1-10
1	11-14
2	21-24
3	31-34
4	41-44
5	51-54
6	61-64
7	71-74
8	81-84
1100 Series Key Fob	400-449
LX-Bus 1	500-599

Note: For 1100 Series Key Fob zones (400-449), programming continues at the 1100 Series Key Fobs Section.

15.3 * UNUSED * — Zone Name

Zone names can have up to 16 alphanumeric characters. A name must be given to each zone in the system. The name can display at the keypads during arming and disarming so the user does not have to memorize zone numbers. Users can associate a zone name with a particular protection point. A zone that is not part of the system must be marked unused.

To add a zone name to the system, press any Select key and then enter up to 16 characters for the new zone name. Press COMMAND to continue.

To mark a zone unused, delete the old name by pressing a top row Select key, then press the COMMAND key. The programmer automatically programs the name as * UNUSED *. If you have already cleared Zone Information during Initialization, the zones will be marked * UNUSED *.

15.4 Zone Type

ZONE TYPE: BLANK

The Zone Type defines the panel response to the zone being opened or shorted. This is called the Alarm Action. There are up to 13 possible alarm action responses depending on the zone type and any restrictions it may have. See the Zone Type chart in the Appendix.

When you assign a Zone Type to a zone, automatic zone responses are made. There are 12 Zone Types to choose from. Application descriptions for each zone type can be found in the Appendix of this manual.

To enter a new Zone Type, press any Select key. The display lists all of the available Zone Types four at a time.

- - NT DY EX — Blank, Night, Day, or Exit. Press COMMAND for additional zone types.

FI PN EM SV — Fire, Panic, Emergency, or Supervisory. Press COMMAND for additional zone types.

A1 A2 FV AR — Auxiliary 1, Auxiliary 2, Fire Verify, or Arming (keyswitch). Press the Back Arrow key to display the previous zone types. When the Zone Type you want displays, press the Select key beneath it.

If you select Blank, Night, Day, Exit, Auxiliary 1, Auxiliary 2, or Arming as the Zone Type, the zone must be assigned to an active area. If you select Fire, Fire Verify, Panic, Emergency, or Supervisory as the Zone Type, it is a 24-hour zone that is always armed and no area assignment is needed.

Zone Type Specifications

The panel contains 12 default zone types for use in configuring the system. These zone types provide the most commonly selected functions for their applications. All zone types except the Arming zone type can be customized by changing the options listed below.

Refer to the Appendix for complete zone type descriptions.

15.5 Area Assignment

AREA NO: -

In an Area system, enter the area number where this zone is being assigned. Area number 1-8 can be assigned for Night, Day, Emergency, Auxiliary 1 and Auxiliary 2 zones.

AREA: PERIMETER

In an All/Perimeter or Home/Sleep/Away system, the currently selected area, Perimeter, Interior, Bedroom displays.

INT PERIM

On an All/Perimeter system, select INT to program zones for the interior area and select PERIM to program zones for the perimeter area.

INT BDRM PERIM

On a Home/Sleep/Away system, select INT to program zones for the interior area, select BDRM to program zones for the bedroom area, and select PERIM to program zones for the perimeter area.

15.6 Fire Bell Output

FIRE BELL OUT: 0

This output (1 to 6, 500 to 599, G1 to G20, or D1 to D8) is turned on any time a Fire, Fire Verify, or Supervisory zone is placed in alarm. The output is turned off by any the following actions:

- When the User Menu Alarm Silence function is performed.
- When a valid user code is entered to silence the bell.
- When the Silence key is pressed on the 630F Remote Fire Command Center.
- Using the Outputs On/Off function in the User Menu.
- The expiration of the Bell Cutoff time.

This output can be connected to a lamp, LED, or buzzer using the DMP Model 716 Output Expansion Module.

15.7 Arming Zone Area Assignment

ARM/DIS AREAS

In an Area system, if the zone has been programmed as an Arming Type (AR), enter the areas that the zone controls.

When the zone changes from normal to shorted, the programmed areas toggle between the armed or disarmed condition using the Style programming below. When restored to normal, no action occurs. When the zone is opened from a normal (disarmed) state, a trouble is reported. When opened from a shorted (armed) state, an alarm is reported and the zone is disabled until you disarm the area(s) from either a keypad or Remote Link™ computer.

To visually indicate the armed state of the area(s), you can assign an Armed Output to individual areas and use remote LEDs at the keyswitch. The LED turns on or off to indicate to the user the armed state of the area(s).

ARM AREAS: PERIM

In an All/Perimeter or Home/Sleep/Away system, this option specifies the areas to be armed by the Arming Type zone. For All/Perimeter systems, choose PERIM or ALL, for Home/Sleep/Away or Home/Away systems, choose HOME, SLEEP, or AWAY.

PERIM ALL

Perimeter/All - Specify whether the arming zone arms just the Perimeter (PERIM) or the Perimeter and Interior areas (ALL) for All/Perimeter systems. When disarming, all areas are disarmed.

HOME SLEEP AWAY

Home/Sleep/Away - Specify whether the arming zone arms the Perimeter (HOME), the Perimeter and Interior (SLEEP), or all three areas (AWAY). When disarming, all areas are disarmed.

Arming Zone Operation

If any bad zones are present when the Arming zone is shorted, the LED delays lighting for 5 seconds. If during the 5-second delay the Arming zone is shorted again no arming takes place. If 5 seconds expire without the zone shorting again or restoring to normal, the areas arm and bad zones are force armed. To allow bad zones to be force armed, the Any Bypass option must be set to YES. If Any Bypass option is set to NO, arming does not occur. See the Area Information - Any Bypass section. A priority zone cannot be force armed.

15.8 Style

STYLE:

This option specifies the style for the arming/disarming operation. The default style is TGL (toggle). Press any Select key to display the STYLE options. To view more style options press the COMMAND key.

TGL ARM DIS STEP

TGL (Toggle) - When the zone changes from normal to shorted, the programmed areas toggle between the armed or disarmed condition. When restored to normal, no action occurs. When the zone opens from a normal (disarmed) state, a trouble is reported. When opened from a shorted (armed) state, an alarm is reported and the zone is disabled until you disarm the area(s) from either a keypad or Remote Link.

ARM - When the zone is shorted, the programmed areas are armed. When restored to normal, no action occurs. When the zone is opened from a normal (disarmed) state, a trouble is reported. When opened from a shorted (armed) state, an alarm is reported.

DIS (Disarm) - When programmed, a short disarms the programmed areas. When restored to normal, no action occurs. When the zone is opened from a normal (disarmed) state, a trouble is reported.

STEP - A short arms the areas and beeps the keypads once. A normal condition will cause no action. An open condition will disarm the programmed areas and beep the keypads for one second.

Note: This arming style is designed for wireless arming pendants. When using a arming/disarming keyswitch locate the keyswitch within the protected area.

MNT

MNT (Maintain) - When the zone is shorted, the programmed areas are armed. When restored to normal, the programmed areas are disarmed and any alarm bells are silenced. When the zone is opened from a normal (disarmed) state, a trouble is reported. If opened from a shorted (armed) state, an alarm is reported and the zone is disabled until you disarm the area(s) from either a keypad or Remote Link.

15.9 NEXT ZN? NO YES — Next Zone

Select YES to terminate zone programming. The display returns to Zone Number, allowing you to enter a new zone number. Select NO to make alterations to the Alarm Action for a zone. Alarm Action is defined beginning with section 15.12.

To program zones for wireless operation, select NO at the NEXT ZONE - NO YES option. The WIRELESS NO YES option displays. If the zone you are programming is intended for wireless devices, select YES. Select NO to continue programming non-wireless zones in the 500 to 599 range.

- Zones 400 to 449 can be programmed for 1100 Series Key Fobs.
- Zones 500 through 599 can be programmed for DMP Wireless.

DMP Wireless

For a DMP 1100X Wireless Receiver set the House Code to 1-50. See House Code programming in System Options. Zones 500 through 599 can be programmed as Wireless zones. Set the XR100 Series panel J23 jumper to X to enable DMP Wireless operation. After power-up, briefly reset the panel using the J16 jumper to activate Wireless operation. Refer to the XR100 Series Installation Guide (LT-0899).

For an 1100 Series Key Fob see section **15.11.**

NOTE: All wireless programming is stored in the XR100 Series panel. The 1100X Wireless Receiver obtains the necessary programming information from the panel each time the receiver powers up, when the programmer STOP routine is selected or the panel is reset. The receiver memory refresh takes up to 10 seconds to complete depending on the number of wireless zones programmed and the Red LED remains on during this time. Normal receiver operation is inhibited during the memory refresh period.

15.10 ZONE INFORMATION / WIRELESS? **NO** YES — Wireless

Select YES to program this zone as a DMP wireless zone. You must program the wireless House Code prior to adding DMP wireless zones to the system. See House Code programming in System Options. Default is NO.

15.10.1 TRANSMITTER / SERIAL#: XXXXXXXX — Serial Number Entry

Enter the eight-digit serial number, including leading zeros, found on the wireless device.

ALREADY IN USE / ZONE NUMBER: XXX

This prompt displays when the serial number is already programmed for another zone. The programmed zone number displays.

15.10.2 TRANSMITTER / CONTACT:XXXXXXXX — Contact

This prompt displays if the serial number entered is for an 1101 or 1103 Universal Transmitter. Press any top row Select key to choose internal or external contacts.

TRANSMTR CONTACT / INT EXT

This option displays when programming an 1101 or 1103 Transmitter. Select INT to use the internal reed switch contacts. Select EXT to connect an external device to the 1101 or 1103 terminal block. Default is INT.

Note: The 1101 or 1103 Universal Transmitter serial number may be programmed for two zones provided the Contact type (INT or EXT) is programmed differently for each zone.

Note: When using the 1103 Universal Transmitter in a UL listed Commercial Burglary installation, the external contact cannot be used.

ALREADY IN USE
ZONE NUMBER: XXX

This prompt displays when the Contact type (INT or EXT) is already programmed for another zone. The programmed zone number displays.

By allowing both of the Model 1101 or 1103 contacts (INT and EXT) to be used at the same time, two zones may be programmed from one transmitter.

For example, program transmitter serial number 01345678 as Zone 521 with an INT contact type. Then program transmitter serial number 01345678 as Zone 522 with an EXT contact type. The same serial number is used for both zones.

Note: When using both contacts, you must use consecutive zone numbers. For example, zones 531 and 532 or zones 590 and 591 are acceptable zone assignments.

ZONE INFORMATION
NORM OPN **NO** YES

This option only displays when EXT is selected as the Contact type. For external devices connected to the 1101 or 1103 terminal block, select NO to use normally closed (N/C) contacts. Select YES to use normally open (N/O) contacts. Default is NO.

Note: For UL listed installations, set Normally Open to NO.

15.10.3 TRANSMITTER
SUPRVSN TIME: XXX

Supervision Time

Press any top row key to select the supervision time required for the wireless zone. Press COMMAND to accept the default time. Default is 60 minutes.

SELECT MINUTES:
0 3 15 **60**

Press the Select key under the required number of minutes. The transmitter must check in at least once during this time or a missing condition is indicated for that zone. 1100 Series transmitters automatically checkin based on the supervision time selected for the wireless zone, no additional programming is needed. If two zones share the same transmitter, the last programmed supervision time is stored as the supervision time for both zones. Zero (0) indicates an unsupervised transmitter.

Note: When the panel is reset or a receiver is installed or powered down and powered up, the supervision timer restarts for all wireless zones.

15.10.4 LED OPERATION
NO **YES**

LED Operation

Select YES to turn on a panic, pendant, or hold-up transmitter LED during Panic or Emergency operation. Select NO to turn the LED off during Panic or Emergency operation. The LED always operates when the transmitter case is open and the tamper is faulted. Default is YES.

Note: For UL listed holdup installations, set LED Operation to NO.

15.10.5 NEXT ZONE NO YES

Next Zone

Select YES to return to the ZONE NO: - prompt to program a new zone. Select NO to display the Alarm Action option.

1100 Series Key Fobs

For an 1100 Series Key Fob set the House Code to 1-50. See House Code programming in System Options. Only zones 400 to 449 can be programmed as 1100 Series Key Fob zones. Refer to the 1100 Series Key Fob Programming Sheet (LT-0706) and the 1100 Series Key Fob Install Guide (LT-0703) as needed. The following programming continues from the Zone Number Section when zone 400-449 is selected.

To operate arming and disarming properly, the Key Fob should be assigned to a User Number with appropriate area assignments, however, the User Number does not have to exist at the time the Key Fob is programmed. The Key Fob User Number can be added later by the User.

Note: Key Fobs have not been investigated by UL and are not intended for UL listed applications.

15.11.1 KEY FOB USER
NUMBER: XXXX

Key Fob User Number

Enter the User Number (1-9999) used to identify the Key Fob user and their arming and disarming authority at the receiver and panel. This information can be viewed in Display Events. Default is blank.

15.11.2

TRANSMITTER
SERIAL#: XXXXXXXX

Key Fob Serial Number

Enter the eight-digit serial number, including leading zeros, found on the wireless device.

15.11.3

TRANSMITTER
SUPRVSN TIME: XX

Key Fob Supervision Time

Press any top row key to select the supervision time required for the key fob zone. Press COMMAND to accept the default time. Default is 0 for key fobs.

SELECT MINUTES:
0 3 15 60

Press the Select key under the required number of minutes. The key fob must check in at least once during this time or a missing condition is indicated for that zone. 1100 Series key fobs automatically checkin based on the supervision time selected for the wireless zone, no additional programming is needed. Zero (0) indicates an unsupervised transmitter.

Note: When the panel is reset or a receiver is installed or powered down and powered up, the supervision timer restarts for all wireless zones.

15.11.4

NO. OF KEY FOB
BUTTONS: X

Number of Key Fob Buttons

Enter the number of buttons (1, 2, or 4) on the Key Fob being programmed.

Note: Default button assignment for one-button key fobs is a Panic Alarm (PN) with no output assigned.

15.11.5

BUTTON:
TOP BTM LFT RGT

Key Fob Button Selection (Four Buttons)

This prompt only displays if the Key Fob being programmed is a four-button model. Press the Select key under the Key Fob button to program. The following list identifies the default button assignments:

TOP Arming
BTM Disarming
LFT Panic Alarm (PN) with no output assigned
RGT Arming Home, Perimeter, or Area 1 if assigned to the user number

15.11.6

BUTTON:
TOP BTM

Key Fob Button Selection (Two Buttons)

This prompt only displays if the Key Fob being programmed is a two-button model. Press the Select key under the Key Fob button to program. The following list identifies the default button assignments:

TOP Arming
BTM Disarming

15.11.7

BUTTON
ACTION: XXXXXXXX

Button Action

This option specifies the Button Action? for an individual Key Fob button. The default action displays. Press any Select key to display the Button Action? options. To view more options press the COMMAND key.

BUTTON ACTION?
ARM DIS TGL STA

ARM (Arm) - Arms selected areas and force arms bad zones.

DIS (Disarm) - Disarms selected areas.

TGL (Togl Arm) - Toggles arm/disarm for selected areas and force arms bad zones.

STA (Status) - Causes the Key Fob LED to indicate the arm/disarm status of the system.

BUTTON ACTION?
PN PN2 EM EM2

PN (Panic) - Triggers a Panic zone type alarm with no restoral.

PN2 (Panic 2) - Triggers a Panic zone type alarm with no restoral when pressed simultaneously with any other Panic 2 button. No action occurs when pressed alone.

EM (Emerg) - Triggers an Emergency zone type alarm with no restoral.

EM2 (Emerg 2) - Triggers an Emergency zone type alarm with no restoral when pressed simultaneously with any other Emergency 2 button. No action occurs when pressed alone.

BUTTON ACTION?
OUT RST UN

OUT (Output) - Causes an output to turn on steady, pulse, momentary, toggle or off.

RST (Snsr Rst) - Causes the panel to perform a standard Sensor Reset.

UN (Unused) - The button is not used and performs no action.

15.11.8 Button Press Time

aaa BUTTON PRESS
TIME: DDDDD

This option specifies the amount of time (SHORT or LONG) the user must press the button before the action initiates a message to the receiver. Press any Select key to set the Button Press Time for Arm, Disarm, Toggle, Status, Output, and Sensor Reset.

Note: The Button Press Time is not programmable on Panic (PN or PN2) Emergency (EM or EM2) or Unused (UN) zones. For those zones the button press time is two (2) seconds.

BUTTON PRESS:
SHORT LONG

SHORT - Press the button for one-half (1/2) second to initiate the action.

LONG - Press the button for two (2) seconds to initiate the action.

15.11.9 Arm/Disarm Area Selection

ARM/DIS AREAS:
1 2 3 4
5 6 7 8

In an Area system, this specifies the areas to be armed/disarmed by the Key Fob button being programmed. To select an area between 1 and 8, enter the area number using the keypad digit keys. Default is no areas enabled.

In order to arm or disarm selected areas, the Profile assigned to the User Number needs to have the same area numbers selected. Any area may be selected at Arm/Disarm Areas but only matching area numbers are armed or disarmed when the specific button is pressed. For example, in Areas selection, areas 1, 3, and 7 are selected. In the User Profile Arm and Disarm Areas, areas 1, 2, 4, and 7 are selected. When the user presses the button to Arm or Disarm area(s), only matching areas 1 and 7 Arm/Disarm.

Note: When more areas are selected at Arm/Disarm Areas than are authorized in the User Profile, in the future the user can be given access authority to additional areas through the User Profile without requiring additional panel programming to select Arm/Disarm Areas. See User Profiles in the Appendix or refer to the XR500 Series User's Guide (LT-0683).

ARM AREAS: PERIM

In an All/Perimeter or Home/Sleep/Away system, this specifies the area to be armed by the Key Fob button being programmed. For All/Perimeter systems, choose PERIM or ALL, for Home/Sleep/Away or Home/Away systems, choose HOME, SLEEP, or AWAY.

Note: Areas 3 and higher in an All/Perimeter system, and areas 4 and higher in a Home/Sleep/Away system are not available for use.

After selecting the areas, for one-button key fobs the Zone No.: prompt displays. For two-button or four-button key fobs, the Key Fob Button Selection option displays to program additional buttons.

15.11.10 Output Number

OUTPUT NO: XXX

You can specify a relay output to operate when OUT (Output), PN (Panic), PN2 (Panic 2), EM (Emergency), or EM2 (Emergency 2) is selected for a key fob Button Action and the button is pressed. Valid range is 1 to 6, 500 to 599, D1 to D8, or G1 to G20. For an output turned on by a PN, PN2, EM, or EM2 button action, the output turns off when any area is disarmed.

To enter an output number, press a top row Select key followed by the output number. Press the COMMAND key.

15.11.11 ACTION: XXXXXXXX Output Action

This option allows you to define the Key Fob output operation (STD, MOM, TGL, OFF) when PN, PN2, EM, or EM2 is selected for a Key Fob Button Action and the button is pressed. For an output turned on by a PN, PN2, EM, or EM2 button action, the output turns off when any area is disarmed by Key Fob button press. The currently programmed action displays.

OUTPUT ACTION?
STD PLS MOM TGL

STD (Steady) - The output is turned on and remains on until the area is disarmed, an output cutoff time expires, or the output is reset from the keypad menu.

PLS (Pulse) - The output alternates one second on and one second off. **Note:** The pulsing rate for a Model 716 relay attached to the LX-Bus is 1.6 seconds.

MOM (Momentary) - The output is turned on only once for one second.

TGL (Toggle) - The output alternates between the armed and disarmed condition. When restored to normal, no action occurs. When the zone opens from a normal (disarmed) state, a trouble is reported. When opened from a shorted (armed) state, an alarm is reported and the zone is disabled until the area(s) is disarmed from either a keypad or Remote Link.

OUTPUT ACTION?
OFF

OFF (Off) - The output is turned off. If programmed, the output was turned on by some other means such as another button, a zone action, or a schedule.

15.11.12 NEXT ZONE NO YES Next Zone

Select YES to return to the ZONE NO: - prompt to program a new zone. Select NO to display the Alarm Action option.

15.12 ALARM ACTION . . . . Alarm Action

This option allows you to change any Zone Type standard definitions. When the Zone Type is specified, the Alarm Action for that zone is stored in memory.

If the Zone Type is Blank, Night, Day, Exit, Auxiliary 1, or Auxiliary 2 it is a non-24-hour zone and the Alarm Action programing begins with Disarmed Open.

If the Zone Type is Fire, Panic, Emergency, or Supervisory it is a 24-hour zone that is always armed and the Alarm Action programming begins with Armed Open.

The Fire Verify Zone Type functions the same as Fire Type, with the following exceptions: When a Fire Verify zone initiates an alarm, the panel performs a Sensor Reset. If any Fire Verify zone initiates an alarm within 120 seconds after the reset, an alarm is indicated. If an alarm is initiated after 120 seconds, the cycle is repeated and a zone fault report is sent to the receiver.

Do NOT program Fire Verify Zone Types for Zone Retard.

15.13 DISARMED OPEN Disarmed Open

Defines the action taken by the panel when the zone is opened while the area is disarmed. There are three actions to define: Report to transmit, Relay Output to activate, and Relay Output action.

You must also make these selections for the Disarmed Short, Armed Open, and Armed Short zone conditions. Press COMMAND to continue.

15.14 MSG: TROUBLE — Report to Transmit

Press any Select key to display the following report options: A, T, L, S, and - (dash).

A T L - **ALARM -** Select A to send an alarm report to the receiver and activate the bell output according to zone type. The zone name appears in the panel alarmed zones and status lists.

TROUBLE - Select T to send a trouble report to the receiver. The zone name appears in the panel alarmed zones and status lists.

Note: UL requirements prevent the Alarm (A) and Trouble (T) action for Fire (FI), and Fire Verify (FV) zone types from being changed.

LOCAL - When you select L, an alarm report is NOT sent to the receiver. The bell output activates and the zone name appears in the panel alarmed zones and status lists.

- (Dash) - When you select a – (dash), reports are NOT sent to the receiver. The bell output does not activate and there is no display in the panel alarmed zones or status list. Only the relay output selected in the next section operates.

D S **DOOR PROPPED** - Selecting **D** allows the following operation: The time programmed into ENTRY DLY 4 in the **System Option** section begins to count without displaying on keypad. If the time expires and the zone has not returned to normal, the keypad trouble buzzer starts and CLOSE THE DOOR appears on the keypads programmed into the PREWARN ADDRESS section. The time programmed into ENTRY DLY 4 begins to count down again internally. If the time expires a second time and the zone has not returned to normal, a fault report is sent to the receiver and the zone name - OPEN message displays on the keypads until a code is entered. The bell output does not activate for the Door Propped operation.

SILENCE/RESET - Select S when the zone (not FI, SV, or FV) is connected to a DMP Model 303 Silence/Reset switch, the zone can be used to silence the alarm bell and perform a sensor reset without using a keypad. A report is NOT sent to the receiver except for the bell silence report.

15.15 OUTPUT NO: 0 — Output Number

You can specify any of the Relay Outputs on the XR100 Series panel to be activated by a zone condition (1 to 6, 500 to 599 if Model 716 used, D1 to D8, G1 to G20). The output can be activated regardless of the report to transmit or whether or not the zone is programmed as local. An output activated by an armed zone is turned off when the zone area is disarmed by a user.

To enter an output number, press a top row Select key followed by the output number. Press the COMMAND key.

15.16 OUTPUT: NONE — Output Action

Entering an Output Number displays this prompt. This prompt allows you to assign an output action to the relay: Steady, Pulse, Momentary, or Follow.

STD PLS MOM FOLW **STEADY -** The output is turned on and remains on until the area is disarmed, an output cutoff time expires, or the output is reset from the keypad menu.

PULSE - The output alternates one second on and one second off. **Note:** The pulsing rate for a Model 716 relay attached to the LX-Bus is 1.6 seconds.

MOMENTARY - The output is turned on only once for one second.

FOLLOW - The output is turned on and remains on while the zone is in an off normal, or bad condition. When the zone restores, the output is turned off.

After you make the three selections in the sections above, the display prompts you for the same three selections for Disarmed Short, Armed Open, and Armed Short conditions. If the zone is a 24-hour type, only the Armed Open and Armed Short conditions display. When you have programmed all of the zone conditions, the Swinger Bypass selection then displays.

15.17 SWGR BYP NO **YES** Swinger Bypass

YES allows the zone to be swinger bypassed by the panel according to the specifications programmed in Swinger Bypass Trips and Reset Swinger Bypass. The Bypass condition displays in the keypad Status List. Selecting NO disables swinger bypassing for this zone.

How it works
If within one hour, a zone trips the total number of times AS specified in Swinger Bypass Trips, the panel bypasses it until the following conditions occur; the area in which the zone is assigned is disarmed, the zone is manually reset through the Bypass Zones? keypad User Menu function, the zone remains normal for one hour and the Reset Swinger Bypass is YES.

If the zone trips fewer than the specified times within one hour, the bypass trip counter returns to 0 (zero) and the process must be repeated.

A report of the swinger bypass is sent to the receiver if Bypass Reports is YES.

Note: Not investigated by UL.

15.18 PREWARN KEYPADS: Prewarn Keypad Addresses

At the entry delay start, all keypad addresses selected here display ENTER CODE:-. If you want the prewarn to sound at all 8 addresses, leave the default setting.

To delete an address, press the matching number on the keypad. To disable prewarning at all keypads, press a top row Select key to clear the addresses shown. Press the COMMAND key when the address selection is complete.

The prewarn tone stops at the keypad where the first user code digit is entered. If no keys are pressed for five seconds or an invalid user code is entered, the prewarn tone resumes at that keypad.

15.19 ENTRY DELAY: 1 Entry Delay

Select the entry timer for this zone. Entry timers 1 to 4 are programmed in System Options.

15.20 RETARD **NO** YES Zone Retard Delay

When you select YES, the zone operates with the zone retard delay. The retard functions only in zone short conditions.

The zone must remain shorted for the full length of the retard delay before the panel recognizes its condition. If you select NO, the zone operates without a retard delay.

Note: For UL installations, Zone Retard Delay shall not be used for burglary zones.

15.21 PRESGNL: NONE Presignal Addresses

You can enable any combination of keypad addresses to sound a presignal tone during the time a zone is in retard delay. The presignal tone silences when the zone restores or the retard delay expires.

To enable a presignal address, press any top row Select key followed by the number of the keypad address. You can enable the presignal for all eight keypad addresses. To disable a presignal address press the matching number digit again. Press the COMMAND key when the address selection is complete. The Presignal prompt is only displayed when Retard is selected as YES.

15.22 FAST RSP **NO** YES Fast Response

Select YES to provide a zone response time of 167ms. Select NO to provide a normal zone response time of 500ms. Zones 500 to 599 have a fixed response time and do not display this prompt.

15.23 Cross Zone

CRS ZONE **NO** YES

Select YES to enable cross zoning for this zone. Cross zoning requires one or more armed zones to fault within a programmed time before an alarm report is sent to the receiver.

When the first cross zoned zone trips, the cross zone time specified in System Options begins to count down. When a second cross zoned zone trips or the first zone trips a second time before the end of the count down, the bell action assigned to the zone activates and the panel sends an alarm report for both zones.

If no other cross zoned zone trips before the cross zone time expires, the panel sends only a zone fault report to the receiver.

Cross zoning is not compatible with all zone types: You can not enable cross zoning for Fire verify zones or for any Fire zones that have Retard Delay enabled.

Note: For UL Installations, Cross Zoned zones must protect the same area.

15.24 Priority

PRIORITY **NO** YES

Select YES to provide additional protection for the premises by requiring this zone to be in a normal condition before its assigned area can be armed.

ZONE NO: -

ZONE NUMBER - Enter the zone number to program next. Follow the descriptions of each programming prompt. If all zones are programmed, press the Back Arrow key at the ZONE NO: – display to continue.

Stop

16.1 STOP Stop

Save Programming

WHEN ANY PANEL PROGRAMMING IS CHANGED, THE STOP ROUTINE MUST BE RUN AND 'SAVING PROGRAM' MUST DISPLAY ON THE KEYPAD IN ORDER TO SAVE THE PROGRAMMING CHANGES.

At the STOP prompt, pressing any Select key allows you to exit the Programmer function of the panel. When selected, the panel performs an internal reset and exits the programmer.

The STOP routine causes the following conditions to occur:

- All areas are DISARMED
- All zones are DISARMED
- The panel Status List displays CLEARED

During the reset, all keypad displays are momentarily blank for two seconds. After the reset, the programming function terminates and the keypads return to the status list display.

Power Up

When the SIA CP-01 option in System Options is set to Yes, for 60 seconds after power up or after applying the J16 reset on the XR100 Series panel, any zone transitions are not recognized. Normal zone processing resumes at the end of the 60 seconds.

Set Lockout Code

17.1 SET LOCKOUT CODE Set Lockout Code

Pressing COMMAND at the STOP prompt displays SET LOCKOUT CODE. This allows you to program a code that is then required to gain access to the panel internal Programmer through the keypad. You can change this code at any time to any combination of numbers from three to five digits long. You do not need to enter leading zeros when using the lockout code. Initializing the panel does not clear a Lockout Code. Lockout Codes can be changed through Remote Link.

Once you have changed the code, it is important to write it down somewhere and store it in a safe place. Lost Lockout Codes require the panel to be sent back to DMP for repair. You may cancel a Lockout Code by entering 00000 at the Set Lockout Code command.

Lockout Code restriction

Do not set a Lockout Code higher than 65535.

Feature Upgrade

18.1 FEATURE UPGRADE — Feature Upgrade

In the Programming Menu, pressing COMMAND at the SET LOCKOUT CODE prompt displays FEATURE UPGRADE. This allows you to enable additional features in the panel. Press any top row Select key to display the first available feature. ENABLED or DISABLED displays indicating whether this feature is currently used in this panel. Press the COMMAND key to display additional feature(s).

ENTER KEY
-

To enable a feature, press any top row Select key anywhere in the features list to display the ENTER KEY prompt.

Enter the factory-supplied feature key for the specific panel and press the COMMAND key. The feature specific to the key displays as ENABLED.

Note: XR100 Series version 106 or higher panels require a six (6) character feature key. Version 105 panels require a 16-character feature key.

If the feature key entered is not accepted, the ENTER KEY prompt displays again. Re-enter the feature key and press the COMMAND key.

18.1.1 ALL NO YES OPTN — All No Yes Option

DISABLED

This feature offers the ability to disable the ALL NO YES option at arming or disarming. When this feature is enabled, the ALL NO YES option does not display at any system keypad during arming or disarming. Each area assigned to the user profile is chosen to be armed or disarmed independently.

18.1.2 SVC USER AUTH — Service User Authentication

DISABLED

This feature offers the ability to authenticate service personnel before allowing access to panel programming or performing any user operations. When this feature is enabled and a valid Service User code is entered for system operation or 6653 is entered for programming, the Service Code entry option displays.

When the service person enters the Service Code, the panel authenticates the code with the Service Code preprogrammed in the SCS-1R receiver, and access to panel programming or the User Menu is granted. The Service Code can be used for system operation for 30 minutes before authenticating again. If the code entered is not validated, access to programming or the User Menu using the Service User code is denied.

Note: The Service User code is user number zero (0) and can only be created in the panel remotely. The SCS-1R receiver must have firmware version 902 or higher to authenticate service personnel.

Purchasing Feature Upgrades

To purchase a feature upgrade, you may contact DMP Customer Service with the feature you would like to enable and the panel serial number. The serial number(s) should be sent in writing via e-mail or fax. A separate feature key is issued for each panel. The feature key only enables the requested feature on the specified panel.

The panel serial number can be located several different ways:

- Printed on a label located on the right side of the XR100 Series PCB.
- Using panel diagnostics. See the Appendix.
- Using Remote Link™ (version 1.18 or greater). See the Remote Link User's Guide (LT-0565).
  - Initial Panel Connection screen
  - System Information screen.

Appendix

19.1 False Alarm Reduction

System Recently Armed report

The System Recently Armed report (S78) is sent to the receiver when a burglary zone goes into alarm within two minutes of the system being armed.

19.2 Diagnostics function

The XR100 Series panel contains a Diagnostics function that allows you to test the communication integrity of the LX-Bus™, identify individual zones, and also display the present electrical state of any zone. To use Diagnostics, reset the panel, enter the Diagnostics code 2313 (DIAG), and press COMMAND.

Test LX-Bus

The first Diagnostic function you displayed is: **TEST LX-BUS**. This function allows you to test the ability of the LX-Bus to communicate with zone and output expander modules connected to their LX-Bus circuits.

To continue, press any top row Select key. The keypad displays **LX-BUS:**. Using the digit keys, enter the LX-Bus number 1 to test that LX-Bus circuit. The keypad now displays **ADDRESS: -** . Enter a 2-digit LX-Bus device address and press COMMAND. When testing LX-Bus devices, enter only the addresses to which the modules have been set.

Important Note: A device address is not the same as a zone number. If you are testing 714 or 715 Zone Expander Modules, which each contain four zones, the device address is the first zone number. When the panel polls a 714 on the LX-Bus, it recognizes it as a four zone device and does not poll the remaining three zones. The 714 module internally polls the remaining zones and transmits any status changes to the panel. This greatly reduces the amount of time it takes the panel to poll all LX-Bus devices.

The keypad next displays **TESTING . . . STOP** during the device testing. At any time, you can Select **STOP** to end polling. The panel records the number of no responses from the device. If all polls are received back by the panel correctly, the keypad displays **00000/65535 FAIL.**

If one or more polling attempts fail, the keypad displays *** * * * */65535 FAIL** with the * representing the number of failed polling attempts. A display of **65535/65535 FAIL** indicates a problem with the interface card or its LX-Bus wiring such as a bad or broken wire, harness not properly connected, or excessive noise or distance. It can also mean that a zone number was entered that did not match a device address. Press the Back Arrow key to enter a new device address or press COMMAND to exit the **TEST LX-BUS**.

Zone Finder

The second Diagnostic function is the Zone Finder. Press COMMAND to display **ZONE FINDER**. This function allows you to identify individual zones on devices connected to the LX-Bus of an interface card, the panel, or any zones on the keypad data bus. To use **ZONE FINDER**, press any top row Select key. The display changes to **FAULT ZONE**. The next zone on the system that changes from a normal to an open or shorted state is displayed as **ZONE NO: * * ***. To continue, press the Back Arrow key.

Zone State

Press the COMMAND to display the third Diagnostic function: **ZONE STATE**. This function allows you to enter any zone number and check its current electrical state (Normal, Open, or Shorted). Press any Select key. The display changes to **ZONE NUMBER: _** . Enter in the zone number you want to check and press COMMAND. The panel displays the current state of the zone as **NRML** (normal), **OPEN**, or **SHORT**.

LX-Bus Status

The fourth Diagnostic function is the **LX-BUS STATUS**. This function allows the panel to poll all devices connected to the LX-Bus of an interface card and check for any Overlapped, Missing, or Extra addresses. Below is a description of each status item:

Overlap - An overlap occurs when one device address is the same as any of the last three zones on another 714 or 715. The overlap feature cannot determine when two devices have the same address.

Example: Model 714 Address 00 = Zones 500 501 502 503, and the Model 711 Address 02 = Zone 502. Zone 502 would report as an Overlap because both the 714 and 711 have devices set to 502.

Missing - A missing occurs when a zone between 500 and 599 has been programmed in **ZONE INFORMATION** and no device with that zone address has been installed on the LX-Bus. To correct the problem, check your zone programming and zone expansion module addressing.

Extra - A device is installed on the LX-Bus but none of its zones are programmed into the system.

MAC Address

Short for Media Access Control address. This hardware address uniquely identifies each network node. Not to be confused with an IP address, which is assignable. In the Diagnostics function, the MAC address is the panel on-board network hardware address. Press any top row Select key to display the panel MAC address. Press the COMMAND key to view the next prompt.

Serial Number

This number is the network communicator serial number. Reference this number for communicator date-of-manufacture, hardware version, etc. Press any top row Select key to display the Serial Number. Press the COMMAND key to view the next prompt.

Current Flash

This option displays Flash 1 or Flash 2 indicating which physical flash chip the panel is currently using. Press any top row Select key to display the current flash information. Press the COMMAND key to view the next prompt.

Send Test Message

To Send a Test Message press the COMMAND key until **SEND TEST MSG** displays. Press any top row Select key/area to send a Device Missing message for the first available LX-Bus zone to the central station.

Note: A Restoral message is NOT sent.

Exiting the Diagnostics program

To exit the Diagnostics function, press the COMMAND key until **STOP** displays. Press any Select key to exit the diagnostics function. The keypad returns to the Status List display.

19.3 Using the 984 Command Function

This feature allows you to connect to a service receiver, is used primarily to bring a new account on-line and upload panel programming completed in Remote Link™. There are three options to allow manual phone line seizure: Number, Remote, and Pickup.

NBR

After completing panel programming in Remote Link, set a trap to seize the panel when it calls. Traps are set by selecting Panel > Trap. Refer to the Remote Link User's Guide (LT-0565), or the Remote Link Help File.

Then, from the panel, enter 984 and press the COMMAND key, while the panel is in the Status List. The keypad display changes to **NBR RMT PICKUP**. Press the Select key under **NBR**. Enter the phone number for the service receiver connected to the Remote Link computer. Press each number key slowly and deliberately. The panel dials each number as it is pressed. If you make a mistake, press the Back Arrow key. The panel will stop dialing and return to the Status List.

You can enter up to 32 characters for the phone number. Once you have entered 16 characters the LCD display is full: Press the COMMAND key to enter the final 16 characters. To enter a # (pound sign) press the fourth (far right) Select key, and to enter an * (asterisk) press the third Select key. Program a pause by entering the letter P. Program CID message communication by entering the letter T in the first position. Cancel call waiting by entering *70P as the first characters. These characters are counted as part of the allowable 32 characters. Press COMMAND after you enter the phone number.

The panel calls the receiver connected to Remote Link to download the new programming. Remote Link then traps the panel.

Note: The panel makes ten attempts to reach the receiver. While attempting to contact the receiver, if the panel needs to send an alarm report, the panel stops dialing and uses the phone line to send its report.

RMT

Select **RMT** if you want the panel to immediately seize the phone line and dial the remote phone number programmed into the panel programming Remote Options section. The Remote Options phone number connects to the modem used by the DMP Remote Link™ software program.

After completing panel programming in Remote Link, set a trap to seize the panel when it calls. Traps are set by selecting Panel > Trap. Refer to the Remote Link User's Guide (LT-0565), or Remote Link Help File for complete information about setting traps.

While the panel displays in the Status List, enter 984 and press the COMMAND key. The keypad display changes to **NBR RMT PICKUP**. Press the Select key under **RMT.** The panel automatically calls the receiver connected to Remote Link to download the new programming. Remote Link then traps the panel.

Note: The panel makes ten attempts to reach the receiver. While attempting to contact the receiver, if the panel needs to send an alarm report, the panel stops dialing and uses the phone line to send its report.

PICKUP

After completing panel programming in Remote Link, connect to the panel by selecting Panel > Connect. Refer to the Remote Link User's Guide (LT-0565), or Remote Link Help File for complete information about connecting to panels.

While the panel displays in the status list and the telephone line at the panel rings, enter 984 and press the COMMAND key. The keypad display changes to **NBR PICKUP**. Press the Select key under **PICKUP** to allow the panel to seize the line. The panel immediately seizes the phone line and sends a carrier tone to the receiver. A verification process occurs and, if successful, the panel grants remote access to its programming and Event Buffer.

After the panel has seized the line, send the file from Remote Link by selecting Panel > Send. Remote Link then uploads the new programming into the panel. You may also Request Events by selecting Panel > Request Events in Remote Link. The panel begins sending the first event or access that occurred on or after the start date specified by Remote Link and finishes by sending the last event or access that occurred on or before the end date specified by Remote Link. If necessary, a Request Events upload in progress can be cancelled.

Keypad Displays

When either the **RMT** or **PICKUP** options are used, the keypad displays **LINE SEIZED**. This indicates that the panel has seized the line and is executing its program. If the line cannot be accessed, or if the **RMT** or **PICKUP** options are used before all connects attempts are made, the keypad displays **SYSTEM BUSY**.

19.4 Using the Walk Test

The XR100 Series panel provides a walk test feature that allows a single technician to test the protection devices connected to zones on the system. Conduct the Walk Test within 30 minutes of resetting the panel. The Walk Test automatically ends if no zones are tripped for 20 minutes. TEST IN PROGRESS displays at all keypads programmed with the same Area Display features. When five minutes remain, TEST END WARNING displays. The Walk Test only tests zones assigned to the areas programmed into the keypad in Area Display. If any areas are armed the Walk Test does not start and SYSTEM ARMED displays.

WALK TEST

Walk Test

To conduct the Walk Test, reset the control panel by momentarily placing a jumper on J16. From the keypad, enter the code 8144 and press COMMAND. The keypad displays WALK TEST for four seconds. If the system is monitored and the communication type is DD or NET, the system sends a System Test Begin report to the central station. After four seconds, the keypad displays the zone type choices for testing.

*BG *FI *PN *SV

Zone Types

Select the zone type you want to test. An asterisk next to the zone type indicates the zone type chosen for testing. Press the Select key again to deselect the zone type. When you have selected all the zone types you want for testing, press the COMMAND key to display the next Walk Test option. Pressing the Back Arrow key exits the Walk Test.

BG (Burglary zones) - Select **BG** to test burglary zones. Includes all NT, DY, EX, A1, and A2 zones.

FI (Fire zones) - Select **FI** to test fire zones. Includes all FI and FV zones.

PN (Panic zones) - Select **PN** to test panic zones. Includes all PN and EM zones. You do ***NOT*** have to hold the zones for 2 seconds in normal mode. You are only required to hold the panic during the Walk Test because the zone takes additional time to report when the system is in test mode.

SV (Supervisory zones) - Select **SV** to test supervisory zones. Includes all SV zones.

Note: During the Walk Test, trip each zone device or button on the system for 1 to 2 seconds.

BELL NO **YES**

Bell Action

This option selects the bell output action when a zone under test faults. This option allows the panel bell, and/or burglary bell, and/or fire bell to turn ON and then OFF each time a zone is tripped (opened or shorted).

NO - Select NO for no bell output action during Walk Test.

YES - Select YES to turn on any bell output for 2 seconds during Walk Test.

PULS - Select PULS to turn on any bell output for 1/4 second during Walk Test. Any LX-Bus device output will turn on for 1.6 seconds due to the polling cycle.

Once in the Walk Test, walk around and trip each protective device. As each device trips, the panel sounds the alarm bells as programmed in Bell Action and then performs an automatic Sensor Reset. Continue tripping devices until the entire system is tested. The trip counter on the keypad display increments by one each time a device is opened or shorted.

TRIPS: XXX END

Trip Counter

Displays the number of zone trips during the Walk Test.

- Each time a selected zone trips, the keypad buzzes for two seconds.
- Each time a FI, FV, or SV zone trips, a Sensor Reset occurs.

END - Select END to stop the Walk Test. When the Walk Test ends or a 20 minute time-out expires, a final Sensor Reset occurs. The System Test End message is sent to the receiver along with Verify and Fail messages for each zone under test. Faulted zones then display on the keypad.

TEST END WARNING

Test End Warning

When five minutes remain on the 20 minute Walk Test timer, the keypad displays TEST END WARNING . If no additional test zone trips occur, the test ends and a final Sensor Reset automatically occurs. The System Test End message is sent to the receiver along with Verify and Fail messages for each zone under test. Faulted zones then display on the keypad.

SOUTH LOBBY
ZONE: 10 -FAIL

Failed Zones Display

For each zone that did not trip (failed) at least once during the Walk Test, all keypads with matching Area Display programming display the zone name and number and buzz for one second. Any selected (*FI *PN *SV) 24-hour zone that is faulted at the end of the Walk Test displays a trouble condition for that zone regardless of the message programmed for the open or short condition of the zone and a zone trouble is sent to the receiver. Press the COMMAND key to display the next failed zone.

19.5 Keypad Speaker Operation

When using LCD Keypads, the panel provides distinct speaker tones from the keypad for Fire, Burglary, Zone Monitor, and Prewarn events. The list below details the conditions under which the speaker is turned on and off for each event.

Fire **On** - Fire zone alarm and Bell Output or Fire Bell Output is ON.
Off - Alarm Silence.

Burglary **On** - Burglary zone alarm and Bell Output or Burglary Bell Output is ON.
Off - Alarm Silence.

Zone Monitor **On** - One time only when a monitored zone is tripped.
Off - After one tone.

Prewarn **On** - During Entry Delay.
Off - When Entry Delay expires.

19.6 Cross Zoning

Caution must be taken when cross zoning devices to ensure that the Cross Zone Time is long enough to allow an intruder to trip both devices before it expires. A Cross Zone Time that is too short may allow an intruder to trip the devices and allow only a zone fault report be sent to the central station.

When a Cross Zoned zone trips a FAULT report is sent to the SCS-1R Receiver. When two Cross Zoned zones trip within the Cross Zone Time, both zones send ALARM signals to the receiver. For example, if zones 1 and 2 are Cross Zoned zones, and only zone 1 trips, a FAULT report is sent to the receiver for zone 1. If zone 1 trips and zone 2 trips within the Cross Zone Time, an ALARM report is sent to the receiver for zone 1 and zone 2.

19.7 Events Manager

The Events Manager allows you to delay sending certain reports to the central station receiver. Reports can be kept in the panel memory until overwritten by new activity or held until the memory buffer reaches 50 events or 50 door access granted events. When the buffer is full, the panel automatically sends the stored reports to the central station receiver. Below is a list of panel reports you can delay using the Events Manager option.

Report Type	Immediately	Delayed
Alarm	Y	
Trouble	Y	
Restore	Y	
Opening		Y
Closing		Y
Bypass	Y	
Reset	Y	
Supervisory	Y	
Add Codes		Y
Delete Codes		Y
Change Codes		Y
Permanent Schedule Change		Y
Temporary Schedule Change		Y
Door Access		Y
Door Access Denied	Y	
Late to Close	Y	
Force Armed Zone	Y	

19.8 User Profiles

A profile defines the authority of each user code in the system. Profiles are programmed in the Keypad User Menu. Several characteristics associated with each User Profile define its authority within the system. To effectively program an XR100 Series system, you must understand the interrelationship between profiles, devices, output groups, and areas. Below is a brief explanation of the User Profile elements. For more information about user profiles, refer to the XR500/XR100 User's Guide (LT-0683).

Profile Number - Each profile may be assigned a unique number from 1 to 99.

Note: Profiles cannot be changed via keypad in an All/Perimeter or Home/Sleep/Away system. Use the default profiles 1 through 10. Refer to the User Profiles Record and the XR500/XR100 User's Guide (LT-0683).

Profile Name - Each profile may be assigned a 16-character name. The Profile Number is the default name.

Area Number - Each profile may be assigned specific areas of the system for arming and disarming. When creating profiles 1 to 98, NO areas are assigned by default. The default for profile 99 is ALL areas assigned. Profile 99 is preprogrammed in the system at the factory.

Access Area Number - Each profile may be assigned door access area assignments. Default for profile 1 to 98 is NO areas assigned. Default for profile 99 is ALL areas assigned. Profile 99 is preprogrammed at the factory.

Output Group Assignment - Each profile may be assigned an output group number from 1 to 10. Default for profile 1 to 98 is NO output group assigned. Default for profile 99 is output group **10**. Your system may by programmed to turn on an output group at certain keypads when door access occurs.

User Menu Assignments - Each user profile may have any of the menus assigned to it as shown in the User Profile Record below. The User Profile Record lists the user menu profile assignments and the system functions users are allowed to access based on the profile numbers assigned to their codes.

Always make sure that at least one administrator in your system has a profile with **all** authorities and **all** areas.

19.9 User Profiles Record

This User Profiles Record can be used as a tool when programming Devices, Profiles, Areas, and Output Groups. Because these programming options are interrelated, use this sheet to plan the system before you begin the installation and programming process.

Profile #	Profile Name	Arm/Disarm Areas	Access Areas	Output Group	Arm	Disarm	Alarm Silence	Sensor Reset	Door Access	Armed Area	Outputs On/Off	Zone Status	Bypass Zones	Zone Monitor	System Status	System Test	User Profiles	User Codes	Schedules	Time	Display Events	Service Request	Fire Drill	Extend	Temp User Code	Anti-passback	Shift/Time Access	Re Arm Delay
																											1 2 3 4 A	
																											1 2 3 4 A	
																											1 2 3 4 A	
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19.10 Zone Type Descriptions

This section describes applications for the default zone types in Zone Information programming.

-- (Blank Zone)
Customizable zone type. By default, no actions are programmed to occur with Blank Zone. A zone name must be entered to use this zone type: This zone type is not the same as an *UNUSED* zone.

NT (Night Zone)
Controlled instant zone used for perimeter doors and windows and interior devices such as PIRs and Glassbreak detectors.

DY (Day zone)
Used for emergency doors or fire doors to sound the keypad buzzer and display the zone name when the zone is faulted. Day zones also send alarm reports to the receiver during the system armed periods.

EX (Exit zone)
Initiates the entry delay timer when its assigned area is fully armed. Also, can initiate an exit delay timer to allow a user to exit an area after the arming process starts.

PN (Panic zone)
Used for connecting to mechanical devices that allow a user to signal an emergency alarm. Panic zones can provide either a silent or audible alarm with or without reporting to a central station receiver.

EM (Emergency zone)
These are used for reporting medical or other non-panic emergencies to the central station receiver.

SV (Supervisory zone)
Used to provide 24-hour zone supervision to devices associated with fire systems. Typical applications are tamper switches on Post Indicator Valves (PIVs), gate valves, and low and high temperature gauges.

FI (Fire zone)
Used for any type of powered or mechanical fire detection device. Typical applications are for smoke detectors, sprinkler flowswitches, manual pull stations, and beam detectors. Retard, cross zoning, and presignal options are available for the Fire zone type.

FV (Fire Verify zone)
Used primarily for smoke detector circuits to verify the existence of an actual fire condition. When a Fire Verify zone initiates an alarm, the panel performs a Fire Reset. If any Fire Verify zone initiates an alarm within 120 seconds after the reset, an alarm is indicated. If an alarm is initiated after 120 seconds, the cycle repeats.

A1 and A2 (Auxiliary 1 and Auxiliary 2)
These zones are similar to a Night zone and are typically used to protect restricted areas within a protected premises.

AR (Arming zone)
This zone allows you to connect a keyswitch to a zone and use it to arm and disarm one or more areas.

19.11 Zone Type Specifications

The XR100 Series panel contains multiple default zone types for use in configuring the system. These zone types provide the most commonly selected functions for their applications. All zone types can be customized by changing the variable options listed below. The Keypad Bus Zone Information table below reflects the zone types for Keypad Bus Zones. The XR100 Series LX-Bus Zone Information table on the next page reflects the zone types for LX-Bus Zones.

Keypad Bus Zone Information Assign Disarm condition of NT, DY, EX, A1, and A2 only Assign Prewarn and Entry Delay for EX only Assign Retard and Presignal for FI, SV, A1, and A2 only Zone Type Defaults	Type -- NT DY EX FI PN EM SV A1 A2 FV AR	Area PERIM INT BDRM or 1 to 8	Fire Bell	Disarmed Open			Disarmed Short			Armed Open			Armed Short			Swinger N or Y	Prewarn 1 to 8	Entry Delay 1 or 4	Retard Delay N or Y	Presignal 1 to 8	Fast Response N or Y	Cross Zone N or Y	Priority N or Y	Style TGL ARM DIS STEP MNT
			Output *	Message ATL-DS	Output *	Action SMF	Message ATL-DS	Output *	Action SMF	Message ATL-DS	Output *	Action SMF	Message ATL-DS	Output *	Action SMF									
Night	NT			-	0	...	-	0	...	A	0	...	A	0	...	Y					N	N	N	
Day	DY			T	0	...	T	0	...	A	0	...	A	0	...	Y					N	N	N	
Exit	EX			-	0	...	-	0	...	A	0	...	A	0	...	Y	1-8	1			N	N	N	
Fire	FI		0							T	0	...	A	0	...	N			N	+	N	N	N	
Panic	PN									T	0	...	A	0	...	N					N	N	N	
Emergency	EM									T	0	...	A	0	...	N					N	N	N	
Supervisory	SV		0							T	0	...	A	0	...	N			N	+	N	N	N	
Auxiliary 1	A1			T	0	...	A	0	...	T	0	...	A	0	...	N			N	+	N	N	N	
Auxiliary 2	A2			T	0	...	A	0	...	T	0	...	A	0	...	N			N	+	N	N	N	
Fire Verify	FV		0							T	0	...	A	0	...	N					N		N	
Arming	AR																							TGL
Zone Name	* Output Options: 1 to 6, 500 to 599, D1 to D8, G1 to G20. ... = Output action defaults to S. + = Set retard to YES before selecting presignal. ■ = Zone functions not available.																							

19.11.1 Keypad Bus Zone Type Defaults

These are complete spellings of the abbreviations used for the zone types, such as Night and Exit.

Type - These are the abbreviations used for the zone types, such as NT and EX.

Area - For an Area system this is 1 to 8. For an All/Perimeter or Home/Sleep/Away system, this is the Interior, Bedroom, or Perimeter. Select the area for NT, DY, EX, A1, A2, and AR types.

Fire Bell Out - Only available for FI, FV, and SV zones. Use any output zone number listed.

Message - A = alarm report, T = trouble report, L = local, no report, — (dash) = no report, D = door propped (When SV zone is connected to 303 Silence/Reset Switch), S = sensor reset/alarm silence, C = early morning ambush cancel.

Output - These are the 6 on-board and 500 off-board relay outputs, D1 to D16, and G1 to G20.

Action - This selects the action of the output: S = steady, P = pulse, M = momentary, and F = follow

Swinger - The zone can be automatically shunted after a programmed number of trips.

Prewarn - This selects the keypad address that sounds the entry prewarn for this zone.

Entry Delay - This is the entry delay timer selected as the default for this zone.

Retard Delay - Provides a programmed retard time before an alarm initiates from a shorted zone. When used on an arming zone, the retard delay occurs when the zone is shorted before the armed state has changed. If the arming zone has Maintain as the Style, the retard delay also occurs when the zone returns to a normal state.

Presignal - Provides a keypad tone for zones in retard delay. Retard must be YES before Presignal can be selected.

Fast Response - Provides a 167ms zone response instead of the normal 500ms response.

Cross Zone - Provides cross zoning with any of the 574 zones.

Priority - Requires this zone to be in a normal condition before the area can be armed.

Style - The abbreviations for arming zone style:
TGL = Toggle, ARM = Arm only, DIS = Disarm only, STEP = Wireless arming, MNT = Maintain

19.11.2 LX-Bus Zone Type Defaults

These are complete spellings of the abbreviations used for the zone types, such as Night and Exit.

Type - These are the abbreviations used for the zone types, such as NT and EX.

Area - For an Area system this is 1 to 8. For an All/Perimeter or Home/Sleep/Away system, this is the Interior, Bedroom, or Perimeter. Select the area for NT, DY, EX, A1, A2, and AR types.

Fire Bell Out - Only available for FI, FV, and S zones. Use any output zone number listed.

Wireless - This indicates wireless equipment is being used.

DMP Wireless - These options are for use with the DMP 1100X Wireless Receiver.

Message - A = alarm report, T = trouble report, L = local, no report, - (dash) = no report, D = door propped (When SV zone is connected to 303 Silence/Reset Switch), S = sensor reset/alarm silence.

Output - These are the 6 on-board and 100 off-board relay outputs, D1 to D8, and G1 to G20.

Action - This selects the action of the output: S = steady, P = pulse, M = momentary, and F = follow

Swinger - The zone can be automatically shunted after a programmed number of trips.

Prewarn - This selects the keypad address that sounds the entry prewarn for this zone.

Entry Delay - This is the entry delay timer selected as the default for this zone.

Retard Delay - Provides a programmed retard time before an alarm initiates from a shorted zone. When used on an arming zone, the retard delay occurs when the zone is shorted before the armed state has changed. If the arming zone has Maintain as the Style, the retard delay also occurs when the zone returns to a normal state.

Presignal - Provides a keypad tone for zones in retard delay. Retard must be YES before Presignal can be selected.

Fast Response - Provides a 167ms zone response instead of the normal 500ms response.

Cross Zone - Provides cross zoning with any of the 142 zones.

Priority - Requires this zone to be in a normal condition before the area can be armed.

Style - The abbreviations for arming zone style: TGL = Toggle, ARM = Arm only, DIS = Disarm only, STEP = Wireless arming, MNT = Maintain

XR100 Series LX-Bus Zone Information		Type	Area	Fire	Wireless	DMP Wireless				Disarmed Open			Disarmed Short			Armed Open			Armed Short			Swinger	Prewarn	Entry Delay	Retard Delay	Presignal	Fast Response	Cross Zone	Priority	Style
Assign Disarm condition for NT, DY, EX, A1, and A2 only.						Contact	EXT Contact N/O?	Supervision Time	LED Operation	Message	Output *	Action	Message	Output *	Action	Message	Output *	Action	Message	Output *	Action	N or Y	1 to 8	1 2 3 or 4	N or Y	1 to 8	N or Y	N or Y	N or Y	TGL ARM DIS STEP MNT
Assign Prewarn and Entry Delay for EX only.	--	NT	PERIM	*	N	INT	N	60	Y	-	0	...	-	0	...	A	0	...	A	0	...	Y			N		N	N	N	
Assign Retard and Presignal for FI, SV, A1, and A2 only.	DY	DY	INT	*	N	INT	N	60	Y	T	0	...	T	0	...	A	0	...	A	0	...	Y	1-8		N		N	N	N	
	FI	EX	BDRM		N	INT	N	60	Y	-	0	...	-	0	...	A	0	...	A	0	...	Y		1				N	N	
Zones 500 to 599	EM	PN	or	*	N	INT	N	60	Y							A	0	...	A	0	...	N			N	+	N	N	N	
	SV	SV	1 to 8	0	N	INT	N	60	Y							A	0	...	A	0	...	N			N	+	N	N	N	
	A1	A1			N	INT	N	60	Y	T	0	...	A	0	...	A	0	...	A	0	...	N			N	+	N	N	N	
	A2	A2			N	INT	N	60	Y	T	0	...	A	0	...	A	0	...	A	0	...	N			N	+	N	N	N	
Zone Type Defaults	FV	FV		0	N	INT	N	60	Y				A	0	...	A	0	...	A	0	...	N			N		N			
NIGHT		NT			N	INT	N	60	Y	-	0	...	-	0	...	A	0	...	A	0	...	Y			N		N	N	N	TGL
DAY		DY			N	INT	N	60	Y	T	0	...	T	0	...	A	0	...	A	0	...	Y			N		N	N	N	
EXIT		EX			N	INT	N	60	Y	-	0	...	-	0	...	A	0	...	A	0	...	Y			N		N	N	N	
FIRE		FI		0	N	INT	N	60	Y							A	0	...	A	0	...	N			N	+	N	N	N	
PANIC		PN			N	INT	N	60	Y							A	0	...	A	0	...	N			N	+	N	N	N	
EMERGENCY		EM			N	INT	N	60	Y							A	0	...	A	0	...	N			N	+	N	N	N	
SUPERVISORY		SV		0	N	INT	N	60	Y							A	0	...	A	0	...	N			N	+	N	N	N	
AUXILIARY 1		A1			N	INT	N	60	Y	T	0	...	A	0	...	A	0	...	A	0	...	N			N	+	N	N	N	
AUXILIARY 2		A2			N	INT	N	60	Y	T	0	...	A	0	...	A	0	...	A	0	...	N			N	+	N	N	N	
FIRE VERIFY		FV		0	N	INT	N	60	Y				A	0	...	A	0	...	A	0	...	N			N		N			
ARMING		AR			N	INT	N	60	Y				A	0																TGL
Zone Name		**Serial Number**		* Output Options: 1 to 6, 500 to 999, D1 to D16, G1 to G20. ... = Output action defaults to S. + = Set retard to YES before selecting presignal. ■ = Zone functions not available.																									

19.12 Common Keypad Messages

There are several common keypad messages that the keypad displays to inform the technician and end-user. The common messages are described below. Possible solutions are also provided.

Message	Meaning	Possible Solutions
INVALID AREA	The user has attempted a door access for an area they are not assigned.	Change the user access areas if access to the area is needed. If access is not needed, the user cannot enter the area.
INVALID CODE	The user code you entered is not recognized by the system.	Check the user code and try again.
INVALID PROFILE	A user attempted a function that is outside of the assigned profile.	Check the user profile settings.
INVALID TIME	A user code assigned to a specific schedule has entered outside of the valid schedule.	See Schedules and User Codes.
CLOSING TIME	The scheduled has expired but the area is not armed.	Users still on the premise should arm the system or extend the schedule to a later time.
LATE TO CLOSE	The system was not armed at its scheduled closing time.	Users still on the premise should arm the system or extend the schedule to a later time.
FAILED TO EXIT	A user assigned the anti-passback option has attempted to re-enter an area from which they did not exit properly.	The user must exit the area through the proper door. If not possible, your system administrator should select the Forgive option in the User Codes menu.
AC TROUBLE	The system is not getting proper power.	Check that all AC connections are good.
BATTERY TROUBLE	The battery is either low or missing.	Check that the battery connections are good and the battery is still good.
PHONE LINE 1 TROUBLE	There is trouble with the phone line supervision.	Plug in the phone line.
SYSTEM TROUBLE or SERVICE REQUIRED	There is a problem with one or more components in the system.	Make sure the J16 jumper is removed from the panel. Make sure there is not a short or open condition on the green data wire to the keypad. You may also need to check that all of the keypads and expansion modules on the bus are good.
SYSTEM BUSY	The system is performing another task with a higher priority.	Wait a few moments for the system to complete the task. Make sure the J16 jumper is not on the panel. If the message displays for a long period of time, the processor could be locked up.
4-WIRE BUS TROUBLE	There is not a supervised device on the bus.	Program a device to be supervised.
	There is low voltage or an open yellow wire.	Make sure all wires are connected.
	Two devices share the same address.	Program one of the devices to a unique address.
TRANSMIT FAIL	The panel has attempted to communicate with the central station 10 times and has not succeeded.	Verify your communication type, account number, and phone number. Make sure the telephone line is connected and working properly.
NON-POLLED ADDRESS	The device is not set to STD or FIRE in Device Setup during programming.	Program the device as STD or FIRE in Device Setup.
ENTER CODE (entering Programming)	A lockout code has been programmed for the panel.	Enter the lockout code.
WIRELESS TROUBLE	The panel is unable to communicate with the wireless receiver.	Verify the receiver is properly connected to the panel. Verify the correct House Code is programmed in System Options.
	The wireless receiver is missing.	

Listings and Approvals

Underwriters Laboratories (UL) Listed

UL	294	Access Control System Units
UL	365	Police Connected Burglar
UL	609	Local Burglar
UL	1023	Household Burglar
UL	1076	Proprietary Burglar
UL	1610	Central Station Burglar
UL	1635	Digital Burglar
UL	985	Household Fire Warning
UL	864	Fire Protective Signaling

UL AA High Line Security

Underwriters Laboratories Canada (ULC) Listed

ULC	5545	Household Fire
ULC	Subject-C1023	Household Burglar
ULC/	ORD-C1076	Proprietary Burglar
ULC	S304	Central Station Burglar

ANSI/SIA CP-01-2000 False Alarm Reduction

FCC Part 15

FCC Part 68 Registration ID CCKAL00BXR500

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