PROGRAMMING

AND

INSTALLATION

GUIDES

FOR

XR150/XR350/XR550 PANELS

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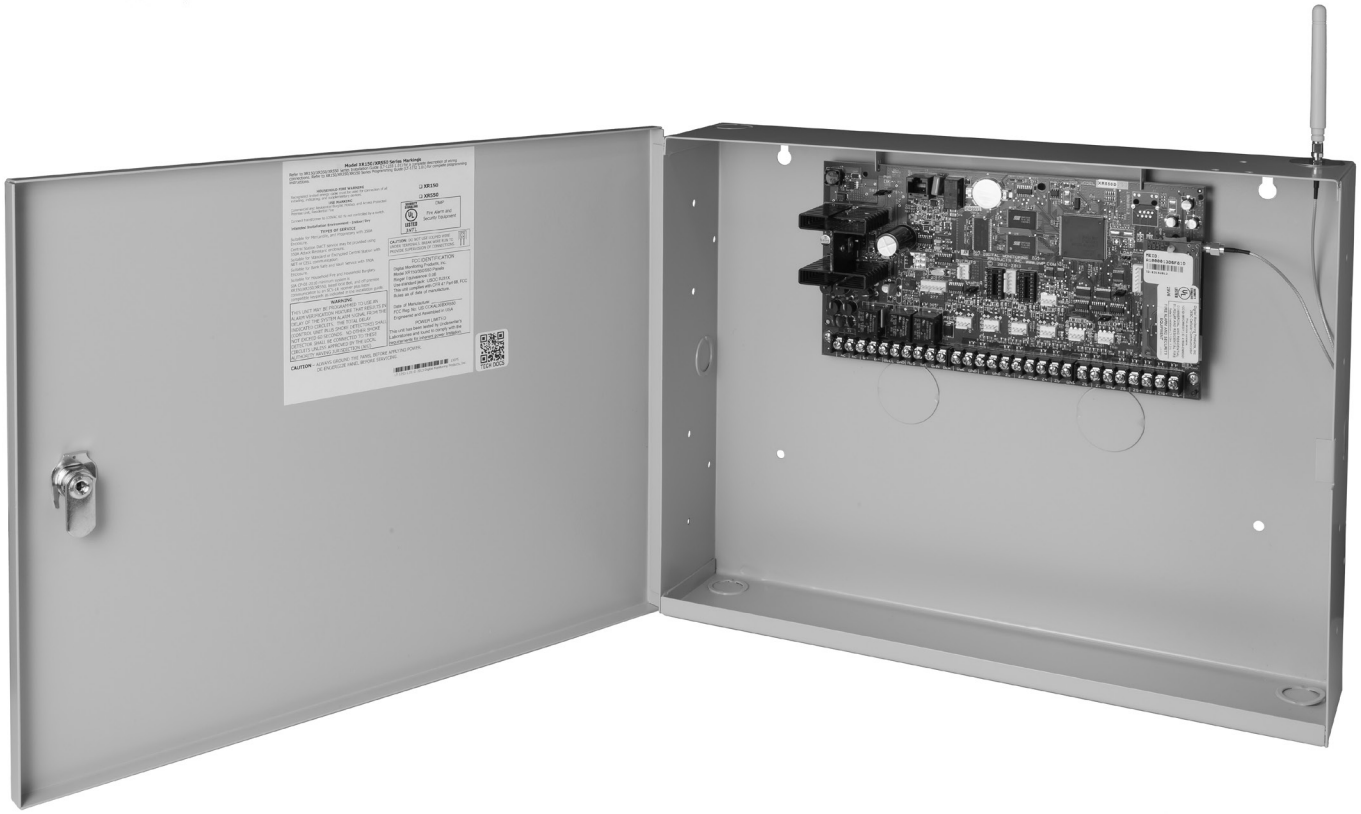
PROGRAMMING GUIDE



XR150/XR550 SERIES CONTROL PANEL

MODEL XR150/XR550 SERIES
CONTROL PANEL PROGRAMMING GUIDE

Contains programming Instructions for use with the
Model XR150/XR550 Series Control Panels

When using the XR150/XR550 Series panel for any listing organization's approved methods, refer to this manual and the XR150/XR550 Series Installation Guide (LT-1233). These documents outline the installation and programming requirements of all applications for which the XR150/XR550 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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Introduction

1.1 Before you Begin

This guide provides programming information for the DMP XR150/XR550 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 panel.

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

- XR150/XR550 Series Installation Guide (LT-1233)
- XR150/XR550 Series Programming Sheet (LT-1234)
- XR150/XR550 Users Guide (LT-1278)
- XR150/XR550 Compliance Listing Guide (LT-1330)

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 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 XR150/XR550 Series Installation Guide (LT-1233).

Program from any Keypad Address

You can program the panel from any 32-character wireless keypad or hardwired keypad connected to the panel's keypad data bus. See the XR150/XR550 Installation Guide (LT-1233) for keypad addressing and installation information for hardwired keypads.

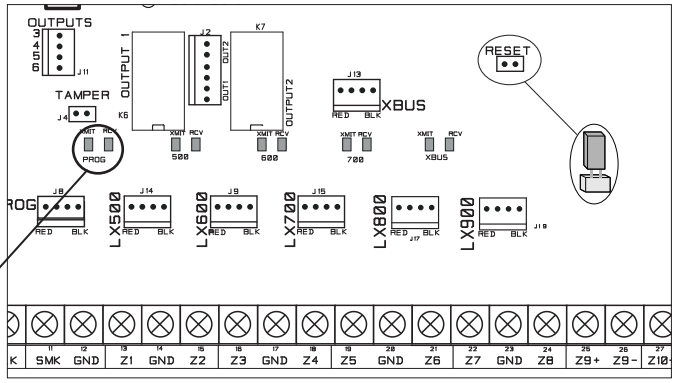
Program from any Wireless Keypad

To enable wireless keypad association operation on a LCD Wireless keypad (Models 9060 and 9063), press and hold the Back Arrow key and CMD until SET BRIGHTNESS displays. Enter the code 3577 (INST) and press CMD. Press KPD RF to start the RF survey communication. The keypad displays its wireless serial number and RF SURVEY.

To enable association operation on a Wireless Graphics Touchscreen keypad (Model 9862), access the Options menu through the carousel menu. While in the Options display, press the Installer Options icon. Enter the code 3577 (INST) and press CMD. Press KPD RF to start the RF survey communication. The keypad displays its wireless serial number and RF SURVEY.

To enable wireless keypad association operation on the XR150/XR550 panel reset the panel three times allowing the keypad bus transmit light to begin flashing between each reset.

For 60 seconds the panel listens for wireless keypads that are in RF Survey mode and have not been programmed or associated into another panel. When the keypad associates with the panel the keypad logo LED turns from Red to Green.



Transmit/Receive LEDs

Figure 1: XR550 Series Panel Showing Reset and Transmit/Receive LEDs

Wireless keypads are assigned to the first open device position in Device Setup automatically based upon the order in which they are detected.

Accessing the Programmer

1. Momentarily place the Reset jumper over both of the RESET pins to reset the panel.
2. Enter the code 6653 (PROG) and press COMMAND.
3. The keypad displays: PROGRAMMER.

1.3 Encrypted Communications (XR550 with Encryption only)

Some installations require secure data communications. Use a unique passphrase to enable encrypted communications and provide a secure means for data communications. See Network Options.

An XR550 panel with encryption communicates using 128-bit or 256-bit AES encryption. If you currently have an XR550 panel with network installed, you may purchase a separate feature key to activate encrypted communications using the Feature Upgrade process. Encrypted communication cannot be enabled on a standard XR550 panel. For more information on the Feature Upgrade process see Section 21 in this document.

1.4 Programmer Operation

There are 20 programming sections to choose from:

Programming Item	Section in This Manual	Programming Item	Section in This Manual
Initialization	2	Output Information	12
Communication	3	Output Groups	13
Network Options	4	Menu Display	14
Messaging Setup	5	Status List	15
Device Setup	6	PC Log Reports	16
Remote Options	7	Area Information	17
System Reports	8	Zone Information	18
System Options	9	Stop	19
Bell Options	10	Set Lockout Code	20
Output Options	11	Feature Upgrade	21

To choose a section for programming, press any select key or area when the keypad displays the name of that section. Sections 2 through 21. contain detailed instructions for each programming step.

1.5 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 select key or area. 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 does 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.

1.6 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.

1.7 Power Up

When the panel is powered up after an AC power failure, any zone transitions are not recognized for 60 seconds. Normal zone processing resumes at the end of the 60 seconds.

1.8 Keypads

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

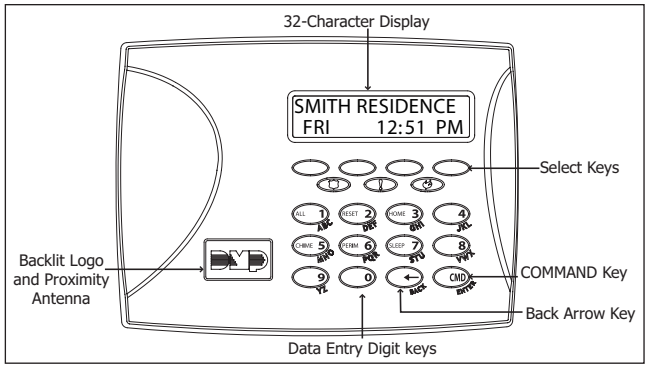


Figure 3: Wireless Keypad

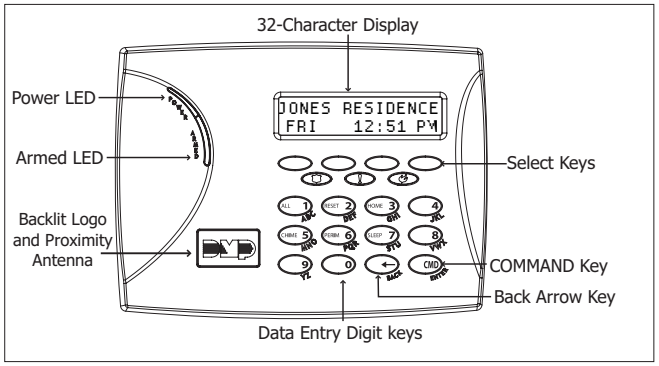


Figure 4: Thinline/Aqualite Keypad

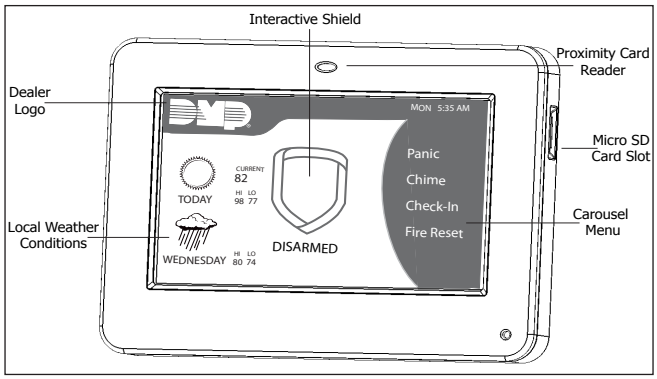


Figure 5: Graphic Touchscreen Keypad

1.9 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 an option, 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 or Areas

The top row of keys are called the select keys on Thinline and Aqualite keypads or select areas on Graphic Touchscreen keypads. Each time you need to press a select key or area, 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 or areas also allow you to change information currently in panel memory by pressing the appropriate select key or 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 remaining options. Pressing the Back Arrow key allows you to review the previous four choices.

The select keys or 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 Wireless, 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 Figure 7.

On Graphic Touchscreen 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 7.

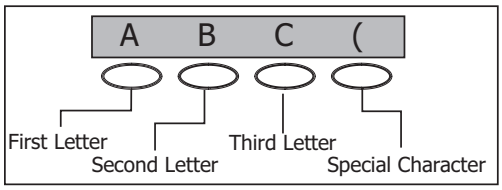


Figure 6: Thinline/Aqualite/Wireless Select Keys

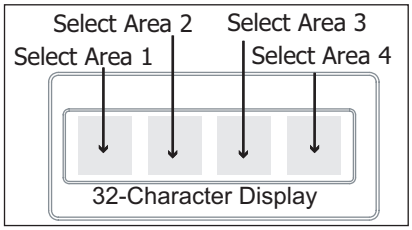


Figure 7: Graphic Touchscreen Select Areas

1.10 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 or area that corresponds to the location of the letter under the key. Pressing a different select key or area changes the letter. When another digit key is pressed, the last letter displayed is retained and the process starts over.

1.11 Entering Non-Alpha Characters

To enter a space in an alpha entry, press the 9 digit key followed by the third select key or 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 key or area from left to right. For example, to enter a - (dash), press the 0 (zero) key and then the left select key or area. A dash now appears in the keypad display. The table below shows the character locations for DMP keypads.

Key Number	Select Key or Area 1	Select Key or Area 2	Select Key or Area 3	Select Key or Area 4
1	A	B	C	(
2	D	E	F	)
3	G	H	I	!
4	J	K	L	?
5	M	N	O	/
6	P	Q	R	&
7	S	T	U	@
8	V	W	X	,
9	Y	Z	space	_
0	-	.	*	#

1.12 Keypad Displays Current Programming

Each programming option 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 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 option. 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 option that requires a NO or YES response, press the select key or touch the select area for the response not selected. See Figure 8.

For example, if the current option is selected as **YES** and you want to change it to **NO**, on Thinline or Aqualite keypads press the third select key. On Graphic Touchscreen keypads touch select area 3. The display changes to **NO**. Press the COMMAND key to display the next option.

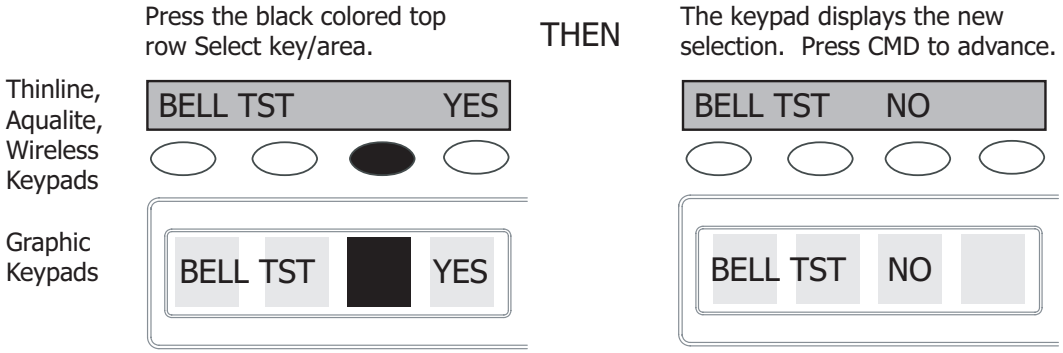


Figure 8: Changing the Current Programming Option

1.13 Multiple Displays

For many programming and user options, such as Area selections, Menu Displays, and Status Lists, there are several displays containing programming. For example, when programming Menu Displays, keypads 1 through 16 display on two separate displays. First, keypads 1 through 8 display. Press the COMMAND key to display keypads 9 through 16. This same scheme is used for areas 1 through 32.

Note: Areas not pre-programmed at installation to display at this keypad cannot be viewed.

1.14 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, 8, 9, and 15 are not selected. In the Areas example, areas 3, 8, 9, 15, 19, 23, 25, and 31 are not selected. In both examples the numbers with asterisks are selected.

Devices

*1	*2	3	*4	9	*10	*11	*12
*5	*6	*7	8	*13	*14	15	*16

Areas

*1	*2	3	*4	*17	*18	19	*20
*5	*6	*7	8	*21	*22	23	*24
9	*10	*11	*12	25	*26	*27	*28
*13	*14	15	*16	*29	*30	31	*32

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.

1.15 Compliance Instructions

This product incorporates field-programmable software. Refer to the XR150/XR550 Compliance Listing Guide (LT-1330) for additional compliance information.

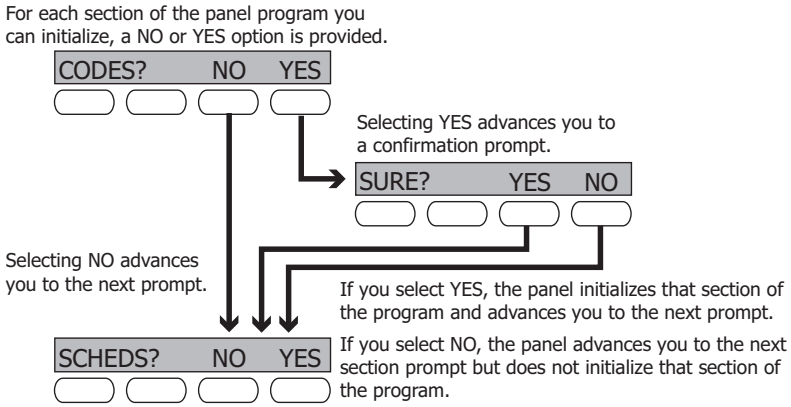
Initialization

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 20.1.**

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 RESET 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 COM/RMT? NO YES / SURE? YES NO

Clear Communication and Remote Options

NO - Leaves existing communication and remote options intact.
YES - Reset communication and remote options programming to factory defaults.

2.10 WIFI? NO YES / SURE? YES NO

Clear Wi-Fi

NO - Leaves existing Wi-Fi programming intact.
YES - Reset Wi-Fi programming to factory defaults.

2.11 DEFAULTS NO YES / SURE? YES NO

Set to Factory Defaults

NO - Leaves existing panel programming intact.
YES - Sets the panel's programming back to factory default selections and clears all Z-Wave device programming and Favorites from the panel. Selecting YES does not clear the panel's event memory, zones, user code information, or schedules.
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 Account Number

ACCOUNT NO: **12345**

The Account Number is a 1 to 5 digit number used to identify which panel is sending a message. Enter the account number sent to the SCS-1R Receiver. Messages may be sent to a central station or via PC Log Reports to a PC. The default is 12345.

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

3.3 Transmit Delay

XMIT DELAY: **30**

Enter the number of seconds (15 to 45) the panel waits before sending burglary zones (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. Otherwise the alarm is sent at the end of the delay. The Alarm Cancelled report cannot be disabled.

3.4 Communication Path

PATH: **-**

Up to eight communication paths may be programmed. Each path is designated as a primary or backup communication route. Path 1 is always Primary but other paths may be programmed as additional primary or backup.

Each primary path establishes a new path group. A path group is made up of the primary path and its subsequent backup paths. Typical communication takes place on the primary path with backup paths being used only when the primary path fails or when the backup path is programmed to duplicate messages. There is no option to backup path 8.

3.5 Communication Type

COMM TYPE: **NONE**

Specifies the communication method the panel uses on this path to report system events to DMP SCS-1R, SCS-VR Receivers or non-DMP receivers. Default is NONE for Path 1, and NONE for Path 2-8.

NONE DD NET CID

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

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

NET - Network communication using the panel onboard network connection. The DMP Network/Output reporting format is transmitted over a data network to the SCS-1R or SCS-VR Receiver.

CID - This option allows the panel to communicate to DMP receivers using the Contact ID format.

CELL WIFI

CELL - This option allows communication over the cellular network using the 263C or 263H Cellular Communicators.

WIFI - Network communication to DMP Model SCS-1R or SCS-VR Receivers.

3.6 Path Type

PATH TYPE: **BACKUP**

PRIMARY BACKUP

The Path Type defines if the path is Primary or Backup. Because Path 1 is Primary, this option only displays for paths 2-8. Default is Backup.

Note: If the Primary Communication Type is CELL, then the backup Communication Type can only be NET.

3.7 Test Report

TEST RPT: **YES**

NO **YES** DEFER

Test Report determines if test reports are sent on this path. Reports are sent according to the programming in Test Frequency and Test Time. Default is Yes.

Select YES to allow the programmed test report to be sent on the path currently being programmed.

Select DEFER to not send a test report if the panel communicates any message to the receiver within the time set in Test Frequency. Select NO to not send test reports on this path.

3.8 Test Frequency

TEST FREQ: **1 DY**

Test Frequency determines the frequency of the test report. Enter a number from 1 to 60 and select DY (Day) or HR (Hour) by pressing the far right select key or area. Default is 1 Day.

3.9 TEST DAY: **SUN**

Test Day

Use this option to set the day of the Test Report. This option appears only when Test Report is Yes, Test Frequency is Day and a multiple of seven. Press the COMMAND key to display the first four days of the week. Press the COMMAND key to display the last three days. Select the day of the week to send the test report. Default is Sunday.

3.10

TEST TIME:
0:00 AM

Test Time

Use this option to select the time of day for Test Reports. Select the hour, minute and AM/PM. Enter 0:00 AM to disable this feature. Default is 0:00 AM.

3.11 CHECKIN: NO **YES**

Check In

This option displays if the COMM TYPE is NET or CELL. Check-in reports are a method of supervising the panel for communication with the receiver. For NET the default is YES. For CELL the default is YES.

CHECKIN:
NO YES RND ADPT

Select RND (Random) for the panel to check-in at random times from 6 to 60 minutes when all areas are disarmed. If any area is armed a check-in is sent every 6 minutes.

Select ADPT (Adaptive) for a backup path to adapt to the check-in programming from this groups primary path if the primary path becomes unavailable. Check-in programming includes Check-in and Fail Time.

CHECKIN:
ADP3

Select ADP3 (Adaptive 3) for a backup path to adapt using a 3 minute Check-in and Fail Time if the primary path becomes unavailable. This option also indicates a Communication Trouble (S10) if the cell tower is unavailable for 3 minutes.

CHECKIN MINS: **200**

When YES is selected, enter the number of minutes between check-in reports, from 2 to 240 for NET or 3 to 240 for CELL, when the panel is armed or disarmed. For CELL the default is 0. For NET the default is 200.

3.12 FAIL MINS: **240**

Fail Time

This option displays if CHECKIN is set to YES. Entering a FAIL TIME allows the receiver to miss multiple check-ins before logging that the panel is missing. The maximum fail time is 240 minutes. 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. Default is equal to CHECKIN for CELL. Default is 240 for NET.

3.13 ENCRYPT: **NO**

NO 128 256

Encryption (XR550 with Encryption only)

This option displays only if the Communication Type is NET or CELL. Select 128 or 256 to enable the encryption level for the path currently being programmed. Default is NO.

Note: 256-bit encrypted messages to the SCS-1R receiver only communicate when using SCS-104 Receiver Line Cards with Version 102 or higher software.

3.14 RECEIVER IP

000.000.000.000

Receiver IP

This option displays only if the Communication Type is NET or CELL. Enter the Receiver IP address where the panel sends network messages. The Receiver 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.

3.15 RECEIVER PORT -
2001

Receiver Port

Enter the receiver port number. Valid range is 1 to 65,535. Default is 2001.

3.16 FIRST PHONE NO.

First Telephone Number

This option displays only if the Communication Type is DD or CID.

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

Enter P to program a three-second pause in the dialing sequence. The P character counts as part of the 32 allowable characters.

Enter R as the first character for rotary (pulse) phone function. The R character counts as part of the 32 allowable characters.

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.

3.17 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 or R characters entered for pause or rotary connections or call waiting cancel option.

Should all ten attempts fail, the panel continues to attempt sending the message using the next programmed path. If all programmed communication paths 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.

3.18 Advanced Programming

ADVANCED? NO YES

Select Yes to enter the Advanced Programming menu for the communication path currently being programmed.

3.19 First GPRS APN

FIRST GPRS APN
SECURECOM400
-

Enter the first APN (Access Point Name). This allows an access point for cellular communication and is used to connect to a DNS network. The APN may contain two lines of 16 characters to equal 32 characters. Default is set to SECURECOM400.

Note: This option is not used when a 263C CDMA Cellular Communicator is used for communication.

Second GPRS APN

SECOND GPRS APN
SECURECOM400
-

Enter the second APN (Access Point Name). This works as a backup in case the first APN fails. The APN may contain two lines of 16 characters to equal 32 character Default is set to SECURECOM400.

Note: This option is not used when a 263C CDMA Cellular Communicator is used for communication.

3.20 Fail Test Hours

FAIL TEST HRS: 0

This option sets the frequency for a Backup or Adaptive path to send a test report when the closest previous path fails within its path group.

For example, if a backup path is programmed to send a weekly test report and the Fail Test Frequency is set to 2 hours, when the previous path fails within its group, the backup path starts sending a test every 2 hours until the previous path restores. If Fail Test Frequency is set to 0, test reports are sent only according to Test Report programming. Range is 0 to 24 hours. Default is 0.

3.21 Protocol

PROTOCOL: **TCP**

This option displays only when Communication Type is NET.

Select TCP to communicate over the network using TCP protocol. Select UDP to communicate using UDP protocol. Default is TCP.

3.22 Retry Seconds

RETRY SECONDS: **6**

This option displays for NET Communication.

Enter the number of seconds (between 6 and 15) 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 6 seconds.

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

3.23 Substitution Code

SUB CODE: **NO**
NO YES SHARED

This option displays when the Communication Type is NET or CELL. 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.

Select YES to send a substitution code with every message.

Select SHARED (SHR) to use the same substitution code as operating in the previous path.

3.24 893A

893A: **NO** YES

2ND LINE PREFIX:
-

This option displays when the Communication Type is DD or CID.

The 893A option allows reports to be sent to the receiver on a second DD line using the 893A module. Default is No.

When using this option, Test Report messages (S07 Automatic Recall Test or S88.

Unrestored System Recall Test) are sent to the receiver at the frequency programmed in Test Frequency, alternating between the first and second phone line.

For example, a DD path with an 893A module set for daily test report frequency sends a test report through phone line 1 one day and phone line 2 the next day.

If the 893A option is set to YES, enter up to a 3-digit prefix to be dialed before the second phone number. If no prefix is entered, the second phone number is dialed as originally entered.

3.25 ALARM SWITCH: **1**

Alarm Switch

This option displays for DD or CID Communication Types.

Enter the number of attempts to send an alarm message before switching to the next path. Range is from 1 to 10. All non-alarm messages are sent for 10 attempts on the dialer before a switch is initiated. If the path immediately following this channel is not a backup path, this option has no effect. Default is 1.

3.26 DUPLICATE ALARMS
NO YES

Duplicate Alarms

This option displays for BACKUP paths. If Yes is selected, the current backup path duplicates all alarms occurring on its group primary path. Default is No.

3.27 ALARM **YES**

Alarm Reports

This option displays when the Path Type is Primary. All backup paths within the group follow the same programming for Alarm Reports. Default is Yes.

NO **YES** FIRE

When YES is selected, the following reports are sent to the receiver for all zone types:

- Alarm
- Bypass
- Reset
- Restore

When FIRE is selected, the following reports are sent for Fire, Fire Verify and Supervisory Zones:

- Alarm
- Bypass
- Reset
- Restore

3.28 SPV/TRBL **YES**

Supervisory/Trouble Reports

This option displays when the Path Type is Primary. All backup paths within the group follow the same programming for Supervisory/Trouble Reports. Default is Yes.

NO **YES** FIRE

When YES is selected, the following reports are sent for all zone types:

- Trouble
- Low Battery
- Missing
- Fault
- Restorals
- System Troubles
- System Restoral

When FIRE is selected, the following reports are sent for Fire, Fire Verify, and Supervisory Zones:

- Trouble
- Low Battery
- Missing
- Fault
- Restorals
- System Troubles
- System Restoral

Serviceman reports are sent regardless of the selection made for Supervisory/Trouble reports.

3.29 O/C USER NO **YES**

Opening/Closing and User Reports

This option displays when the Path Type is Primary. All backup paths within the group follow the same programming for Opening/Closing and User Reports. Default is Yes.

When YES is selected, the following reports by user are sent to this receiver.

- Opening
- Closing
- Bypass
- Reset
- Code changes (including adding, deleting, changing)
- Schedule changes (temporary, permanent, shift)
- Holiday date changes

3.30 DOOR ACS **DENY**

Door Access Report

This option displays when the Path Type is Primary. All backup paths within the group follow the same programming for Door Access Reports. Default is Deny.

NO YES **DENY**

Select YES to enable Door Access Granted and Denied 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.

Select DENY to enable Door Access Denied reports only to this receiver when a door access is denied to a user.

3.31 PANIC TST **NO** YES

Panic Test (Network only)

YES allows the panic zone test verification and failure results to be sent to the central station receiver. NO disables the panic test report. The default setting is NO. The system test start, stop, panic zone verification, and panic zone failure messages sent to the central station and the trips count operation are the same as used under the Walk Test. See Using the Walk Test section in the Appendix.

3.32 SEND COMM TRBL: / NO **YES**

Send Communication Trouble

This option displays for each path and determines if and how communication trouble on the path is sent to the receiver. A trouble message indicates both the path number and communication type that failed. Default is Yes.

3.33 SEND PATH INFO: / **NO** YES

Send Path Information

This option displays for each path and if YES, each panel message includes path information such as path number, communication type, and path type. Default is No.

Network Options

Network Options are provided to define the network configuration for the panel. This information will be used during communication of messages via network.

Note: Wi-Fi must be selected as Communication Type in the Communication section for Wi-Fi Setup to display.

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 NETWORK OPTIONS

Network Options

This option is for configuring the desired network settings. Press any select key or area to select.

4.2 WPS LIST MANUAL / TEST

WiFi Setup

This option is for connecting to the desired Wi-Fi network and will display only when Comm Type is set to Wi-Fi. Press any select key or area to select.
WPS LIST MANUAL displays. Press the first select key or area to choose WPS to automatically connect to a WPS enabled router. Press the second select key or area to choose LIST and see the name and signal strength of any Wi-Fi routers in range. Press the third or fourth select key or area to choose MANUAL and enter the name of the Wi-Fi router you wish to connect to. Pressing COMMAND displays TEST. To select TEST press the first select key or area to verify connection of your system to the Wi-Fi network.

4.2.1 SEARCHING .

WPS

When WPS is selected, SEARCHING displays. Press the WPS button on the Wi-Fi network router to which you are attempting to connect. SEARCHING displays for up to two minutes or until connected to the WPS enabled router. Refer to the router's instruction manual for sending a security key to the XR150/XR550 Series panel.
If the panel fails to connect to the WPS enabled router, WPS FAILED RETRY? NO YES displays. Press the fourth select key or area to RETRY or press the third select key or area to display WPS LIST MANUAL.

4.2.2 WPS LIST MANUAL / SEARCHING / SIGNAL ▌▌▌▌▌▌▌ HOMENET123 / W/L SECURITY: WPA-PSK / W/L SECURITY: WEP WPA NONE / W/L KEY: ********** / W/L KEY: -

List

When LIST is selected, SEARCHING displays until any Wi-Fi networks are found in range. Once available Wi-Fi networks are found the keypad displays the name of the SSID (Wi-Fi Network name) and signal strength of each network. Press COMMAND to scroll through the list of available Wi-Fi networks. When the desired network is displayed, press any select key or area to connect.

Note: If the panel is unable to detect the security type, W/L SECURITY with the default security type WPA-PSK displays. If a different security type is required, press COMMAND and WEP WPA NONE displays. Press the select key or area of the desired security type to choose.

When connecting to the Wi-Fi network the panel also detects the security type in use and W/L KEY: ********** displays.
Enter the W/L KEY and the panel performs a connection test and CONNECTING displays. When successful, CONNECTED displays on the keypad. If the panel does not connect to the Wi-Fi network, NOT CONNECTED displays. Press COMMAND to return to the Wi-Fi SETUP main screen.

4.2.3 WPS LIST MANUAL / WIFI SETUP ENTER SSID

Manual

This option allows you to enter the desired network name using the keypad. When MANUAL is selected, the current settings display. Press COMMAND to continue with no change. SecureCom is the default.
Use the number keys on the keypad to enter a new or different SSID (Wi-Fi Network name), there is no need to press the select keys or areas. Once the SSID is entered, press COMMAND and SEARCHING displays.

SSID:
SSID FOUND

When an SSID is entered for the first time or changed, the panel searches for the SSID entered to ensure communication. The keypad displays SSID FOUND or SSID NOT FOUND. When the SSID is found, the security type is also detected.

Note: Depending on the security type, the SSID might take several seconds to process.

Enter up to 32 characters for the SSID from the network router to identify the network LAN. The SSID is blank by default. Use the chart below to enter lowercase or special characters. Each successive press of the select key or area gives additional options. For example, to enter Me5%, you would press key # 5, select key or area 1 (M); press key # 2, select key or area 2 twice (e); press key # 5 (5); press key # 7, select key or area 4 twice (%).

Key Number	Select Key or area 1	Select Key or area 2	Select Key or area 3	Select Key or area 4	
1	A, a,	B, b	C, c	(, [, {	**Note:** When \ is entered, the keypad displays ¥. When ~ is entered, -> displays.
2	D, d	E, e	F, f	),], }	
3	G, g	H, h	I, i	!, ^, ~	
4	J, j	K, k	L, l	?, ", |	
5	M, m	N, n	O, o	/, \, `	
6	P, p	Q, q	R, r	&, $	
7	S, s	T, t	U, u	@, %	
8	V, v	W, w	X, x	, =	
9	Y, y	Z, z	space, :	_, ;	
0	-, +	., '	*, <	#, >	

SSID:
SSID NOT FOUND

While searching, SEARCHING displays on the keypad. If the 763 is unable to connect to the desired network and SSID NOT FOUND displays, press COMMAND to return to the main menu and WPS LIST MANUAL displays. Press COMMAND again to display TEST.

Enter the Wireless Network Key for the network and press COMMAND to save the key.

4.2.4 Test

TEST

Press the first select key or area to select TEST and the 763 will attempt to verify connection of your system to the desired Wi-Fi network.

4.3 Wireless Security Type

W/L SECURITY:
WPA-PSK

When successful, W/L SECURITY displays. Select the security type based on the network router programming. The default network security type is WPA-PSK. Press any select key or area to display the other security options. The available options are WEP, WPA, and NONE.

W/L SECURITY:
WEP WPA NONE

Press the first select key or area to choose WEP, press the second select key or area for WPA, press the third select key or area for NONE.

4.4 Wireless Network Key

W/L KEY:
****

This option displays only if Comm Type is set to Wi-Fi and Security option is not set to NONE. Enter the key provided from the network router's programming. WEP requires a network password of 10 characters (WEP64) or 26 characters (WEP128), using a combination of the number 0-9 and the letters A-F (See the chart above to enter lowercase or special characters).

W/L KEY:
-

WPA/WPA-PSK uses a custom key that allows 8 to 32 characters.

Note: Depending on the security type, the key might take several seconds to process.

4.5 DHCP

DHCP NO **YES**

If the panel uses a dynamic IP address select YES. When set to YES, the panel operates using DHCP and does not use the Local IP Address number. When the DHCP option is set to NO, the panel uses the IP address entered in Local IP Address. The default value for DHCP mode is YES.

4.6 Local IP Address

LOCAL IP ADDRESS
192.168.0.250

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.

4.7 Gateway Address

GATEWAY ADDRESS
192.168.0.1

Enter the local gateway address. The Gateway IP Address is needed to exit your local network. The default gateway address is 192.168.0.1.

4.8 Subnet Mask

SUBNET MASK
255.255.255.000

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

4.5 DNS Server

DNS SERVER
192.168.0.1

Enter the IP address of the DNS (Domain Name System) used by the panel to resolve domain names into IP addresses. The default address is 192.168.0.1.

4.6 PASSPHRASE / -

Passphrase (XR550 with Encryption only)

To enable encryption type an 8 to 16-character Passphrase using alphanumeric characters. If you leave the Passphrase blank, the panel communicates with the SCS-1R Receiver, but the data is not encrypted. The Passphrase is blank by default.

An XR550 panel with encryption is capable of communicating 128-bit or 256-bit encrypted data to an SCS-104 line card installed at the receiver. The XR550 panel with encryption and the receiver SCS-104 line card must have the same password called a Passphrase.

Note: DO NOT LOSE THE PASSPHRASE. A lost or forgotten Passphrase requires that the XR550 panel and every SCS-104 line card at the receiver be individually reprogrammed with a new passphrase.

Note: An XR550 panel with encryption communicates using AES encryption. If you currently have an XR550 panel with network installed, you may purchase a separate feature key to activate encrypted communications using the Feature Upgrade process described in the Feature Upgrade Section. Encrypted communication cannot be enabled on a standard XR550 panel.

Note: 256-bit encrypted messages to the SCS-1R receiver only communicate when using SCS-104 Receiver Line Cards with Version 102 or higher software.

4.7 734N LISTEN / PORT: **2002**

734N Listen Port.

Enter the port number that the 734N/734N-WiFi will use to send communication to the panel. This must be the same port that is programmed in Panel IP Port within the 734N/734N-WiFi Communication programming menu.

Note: The 734N Listen Port cannot be the same as the panel network programming port.

4.8 734N PASSPHRASE / -

734N Passphrase

Enter an 8 to 16-character Passphrase to encrypt communication with the 734N/734N-WiFi module. The 734N Passphrase must match the 734N Passphrase entered in Communication programming of the 734N. The Passphrase is blank by default.

Note: A passphrase is required for operation.

Messaging Setup

5.1 MESSAGING SETUP

Messaging Setup

This section allows you to enter the information needed to receive messages directly from the panel via MyAccess™ SMS Text using Cellular communication. All of the name and password options below allow up to 32 lowercase characters to be entered. The Destination addresses allow up to 48 characters to be entered. System Name is displayed with initial caps.

The transmitted messages are:

- Zone Alarms by Zone Name
- Zone Troubles by Zone Name
- Zone Bypass by User
- Arming (Closings) by User|
- Disarming (Openings) by User
- Late to Close
- AC Power Trouble and Restoral
- System Low Battery
- Ambush
- Abort, Cancel and Alarm Verified by User

5.2 ENABLE MESSAGING / **NO** YES

Enable Messaging

Select **YES** to allow the panel to send messages to three programmed destinations. Default is NO.

5.3 SYSTEM NAME / -

System Name

Enter a unique name for the panel. The panel name is used as the sender of the message. The text entered is displayed with initial caps. If this field is left blank, the panel account number is sent.

5.4 DESTINATION 1 / -

Destination 1

Enter the first cell phone number where messages will be sent. The message can be sent to any device (computer, cell phone, PDA) as long as a valid cell phone number is entered.

5.5 DESTINATION 1 USER NUMBER: 0

Destination 1 User Number

Enter a valid user number from this account. This option is used when sending commands such as arming or disarming back to the panel using MyAccess™ SMS Text from the same cell phone or PDA. The user number must have the authority to perform the commands as if it occurred at the keypad. MyAccess™ SMS Entering 0 (zero) disables this option. Default is 0.

5.6 DESTINATION 2
-

Destination 2

Enter the second destination cell phone number.

5.7 DESTINATION 2 USER NUMBER: 0

Destination 2 User Number

Enter a valid User Number for arming/disarming authorization.

5.8 DESTINATION 3

Destination 3

Enter the third destination cell phone number.

5.9 DESTINATION 3 USER NUMBER: 0

Destination 3 User Number

Enter a valid User Number for arming/disarming authorization.

5.10 O/C SMS **NO** YES

O/C SMS

Select **YES** to allow the panel to send Opening and Closing messages to a cell phone via SMS protocol. Default is NO. This option displays if any destination is a cell phone number.

5.11 MONTHLY LIMIT: 0

Monthly Limit

This option displays if any programmed destination is a cell phone number using CELL communication. This number limits the monthly incoming and outgoing SMS messages allowed to be sent or received by the panel.

A panel event that causes messages to be sent to destination cell phone numbers is counted towards the panel's monthly limit. For example, if an alarm message is sent to a cell phone number, a total of 2 messages are counted towards the monthly limit for the panel. SMS messages sent from a cell phone to the panel, including status requests and MyAccess™ SMS Text messaging commands, also count toward the monthly limit. The limit is reset at midnight on the 14th of every month. Range is from 0 to 999. When 0 is entered, there is no limit on the number of messages able to be sent or received by the panel. Default is 0.

Note: The SecureCom Wireless text plan selected for the panel should match or exceed the programmed Monthly Limit.

Device Setup

AX-Bus Available Addresses and 734 Zone Numbers

734 Address	LX500		LX600		LX700		LX800		LX900	
	Door	Zones	Door	Zones	Door	Zones	Door	Zones	Door	Zones
1	501	501-504	601	601-604	701	701-704	801	801-804	901	901-904
2	505	505-508	605	605-608	705	705-708	805	805-808	905	905-908
3	509	509-512	609	609-612	709	709-712	809	809-812	909	909-512
4	513	513-516	613	613-616	713	713-716	813	813-816	913	913-916
5	517	517-520	617	617-620	717	717-720	817	817-820	917	917-920
6	521	521-524	621	621-624	721	721-724	821	821-824	921	921-924
7	525	525-528	625	625-628	725	725-728	825	825-828	925	925-928
8	529	529-532	629	629-632	729	729-732	829	829-832	929	929-932
9	533	533-536	633	633-636	733	733-736	833	833-836	933	933-936
10	537	537-540	637	637-640	737	737-740	837	837-840	937	937-940
11	541	541-544	641	641-644	741	741-744	841	841-844	941	941-944
12	545	545-548	645	645-648	745	745-748	845	845-848	945	945-948
13	549	549-552	649	649-652	749	749-752	849	849-852	949	949-952
14	553	553-556	653	653-656	753	753-756	853	853-856	953	953-956
15	557	557-560	657	657-660	757	757-760	857	857-860	957	957-960
16	561	561-564	661	661-664	761	761-764	861	861-864	961	961-964

6.1 Device Setup

DEVICE SETUP

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

6.2 Device Number

DEVICE NO:-

Enter the address of the device you are programming. If using a wireless keypad, program the device number in the Status List Auxiliary 1 Zones programming option to display wireless keypad troubles. After you program each option for the first keypad, repeat these programming steps for each additional keypad. The valid range for KEYPAD, FIRE, and EXPANDER type devices is 1 -16.

DOOR Device Type (XR550 Version 111)

The XR550 includes access control for 32 door type devices. This firmware provides the ability to program an additional 16 doors of access to the system using 734 Wiegand Interface Modules connected to any of the XR550's LX-Bus headers. Combined with the 16 doors of access available from the keypad bus totals 32 doors.

Door capacity can be increased to a maximum of 64 or 96 by applying purchased feature keys. Feature keys are purchased through DMP Customer Service and entered into the panel using a keypad or Remote Link. Call DMP Customer Service at 1-866-266-2826 for purchasing information.

Programming and Operation

An LX-Bus address (e.g. 501) can to be entered at Device Setup to program a 734 attached to the bus. Once a 734 address has been programmed for the bus, the LX-Bus is automatically converted from a hardwire zone expansion bus to a hardwire Access Expansion Bus (AX-Bus) and the bus begins to operate as shown below.

- Each 734 module provides one door relay and four protection zones to connect switches such as door and window contacts.
- 16 doors of access can be programmed per AX-Bus to a maximum of eighty (80) 734 modules. Please see the table below for available addresses.
- Any unused AX-Bus zone numbers may be programmed as wireless zones. Hardwired zone expansion modules such as the 711, 714, 715-16 and others are incompatible with bus operation and cannot be used.
- Device Setup programming for AX-Bus address are automatically programmed as a door type. Device Type, Communication Type and Display Areas are not shown. Only 734 module programming is shown.

NOTE: An AX-Bus operation is only compatible with 734 modules and the Model XR550. Keypads, 734N and 734N-Wifi modules must only be used on the keypad bus. AX-Bus operation is incompatible with the Model XR150 and XR350 control panels.

6.3 Device Name

* UNUSED *

A device name must be given to each device in the system. To add a device name, press any select key or area. The default device name (DEVICE X) displays. Select COMMAND to accept the default name or press any select key or area to enter a new name up to 32 alphanumeric characters. Press the COMMAND key.

To remove a device from the system, delete the device name by pressing any select key or area, then press the COMMAND key. The panel automatically programs the name as * UNUSED *.

6.4 Device Type

TYPE: **KEYPAD**
DOOR KPD FI EXP

This section allows you to select a device type for the selected device number.

DOOR - The device is an access control device and is either a keypad using door strike functions or a Wiegand Interface Module.

KEYPAD - The device is a keypad.

FIRE - The device is a 630F Remote Annunciator.

Note: See Fire Device Remote Programming in the XR550 Series Compliance Guide (LT-1330) for instructions on how to allow remote panel programming.

EXPANDER - The device is a Zone Expansion Module.

Note: The following options display based on device type selected:

6.5 Device Communication Type

DEVICE COMM TYPE
KPD-BUS

DEVICE COMM TYPE
KPD-BUS WIRELESS

For a Device Type of DOOR, select KPD-BUS to communicate with the device on the keypad bus or select NETWORK to communicate with the device using a network connection. Default is KPD-BUS.

For a Device Type of KEYPAD, select KPD-BUS to communicate with the device on the keypad bus or select WIRELESS to communicate with the device using a wireless connection. Default is KPD-BUS.

6.6 Serial Number

SERIAL#: XXXXXXXX

Note: This option only displays if Device Type is KEYPAD and Device Comm Type is WIRELESS.

Enter the eight-digit serial number found on the wireless keypad.

6.6.1 Supervision Time

SUPRVSN TIME: **240**

Note: This option only displays if Device Type is KEYPAD and Device Comm Type is WIRELESS.

Press any select key or area to select the supervision time required for the device. Press COMMAND to accept the default time. Default is 240 minutes.

SELECT MINUTES:
0 60 240

Press the select key or area under the required number of minutes. The device must check in at least once during this time or a missing condition is indicated for that device. Zero (0) indicates an unsupervised wireless keypad.

Note: When the panel is reset, panel is powered down and powered up, or programming is complete, the supervision timer restarts for all wireless keypads.

6.7 Access Areas

ACCESS AREAS:
1 2 3 4
5 6 7 8

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. Press COMMAND to display the next set of areas. 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.

When all areas accessed by a door are armed, the door is locked by the panel.

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

6.8 Egress Areas

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. Press COMMAND to display the next set of areas. Refer to the Multiple Displays section at the beginning of this document.

Note: For an All/Perimeter, Home/Sleep/Away, or Home/Sleep/Away with Guest 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.

6.9

DISPLAY AREAS:

*1	*2	*3	*4
*5	*6	*7	*8
*9	*10	*11	*12
*13	*14	*15	*16
*17	*18	*19	*20
*21	*22	*23	*24
*25	*26	*27	*28
*29	*30	*31	*32

Display Areas

Press the COMMAND key to program Display Areas. To select an area between 1 to 32, 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. Press COMMAND to display the next set of areas. Default is all area numbers. Refer to the Multiple Displays section at the beginning of this document.

Display Areas allows the panels 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.

For Home/Sleep/Away with Guest arming systems, the Display Areas selection determines which system the keypad arms and disarms. With areas 1, 2 or 3 being the first areas selected, the keypad is assigned to the Main system. With area 4, 5 or 6 being the first areas selected, the keypad is assigned to the Guest 1 system. With area 7, 8 or 9 being the first areas selected, the keypad is assigned to the Guest 2 system. Keypads can have additional areas assigned for Event Display.

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
- Alarm Silence for the area(s) selected
- 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.

- Sensor Reset Menu
- System Test/Panic Test
- Service Request
- Fire Drill
- Outputs On/Off Menu
- User Profiles
- Set System Time and DatE
- Display Events
- System Status Menu
- Forgive Anti-Passback
- 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 20, 21, and 22, it annunciates troubles and alarms only for zones assigned to those areas.

When arming/disarming from Device 1, only areas 20, 21, and 22 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.

6.10 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 734/734N Wiegand Interface Module is not affected by this selection. It remains at 5 seconds.

6.11 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).

6.12 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.

6.13 PUBLIC DR **NO** YES

Public Door

Select **YES** to allow the door access relay at this address to be released whenever the Lockdown command is issued from the keypad User Menu or remote command.

Select **NO** to not allow the door access relay at this address to be released. Default is NO.

6.14 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.

6.15 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.

6.16 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.

6.17 DOOR REAL-TIME STATUS? **NO** YES

Door Real-Time Status?

Select YES to have real-time door status messages sent to PC Log reporting and Entré reporting for this device. Messages are sent anytime the panel turns the door relay on or off. Default is NO.

6.18 SEND DOOR FORCED MESSAGE? **NO** YES

Send Door Forced Message?

Select YES to have the panel send a real-time door status message of Forced Open (FO) to PC Log reporting and Entré reporting when the door relay is off, but the door zone has transitioned from its normal state. Default is NO.

6.19 Program 734/734N Options

PROGRAM 734 OPTIONS? **NO** YES

Select YES to program a 734 or a 734N/734N-WiFi Wiegand Interface Module. The options displayed for a 734 or 734N are the same.

To program the 734, the Device Type must be set to DOOR and the Device Communication Type must be set to KPD-BUS.

To program the 734N/734N-WiFi, the Device Type must be set to DOOR and the Device Communication Type must be set to NETWORK.

6.19.1 Activate Zone 2 Bypass

ACTIVATE ZONE 2 BYPASS? **NO** YES

Select YES to activate the Bypass option.

Selecting NO allows standard zone operation on Zone 2 and displays the ACTIVATE ZONE 3 REX option. Default setting is NO.

If the door being released by the 734/734N/734N-WiFi module is protected (contact installed), you can provide a programmable Bypass entry/exit timer by connecting its contact wiring to the 734/734N/734N-WiFi module Zone 2. When the on-board Form C relay activates and the user opens the door connected to Zone 2, the zone is bypassed for the number of seconds programmed in ZONE 2 BYPASS TIME allowing the user to enter/exit.

If Zone 2 does not restore (door closed) within the programmed bypass time, the 734/734N/734N-WiFi piezo pulses during the last ten seconds. If Zone 2 restores prior to the end of the programmed time, the piezo silences. If the zone does not restore before the programmed time, the 734/734N/734N-WiFi ends the bypass and indicates the open or short zone condition to the panel.

6.19.2 Zone 2 Bypass Time

ZONE 2 BYPASS TIME: **40**

Enter the number of Bypass seconds to elapse before the Bypass timer expires. Range is from 20 to 250 seconds. Press any select key or area to enter the number of seconds. If the door remains open when the timer expires a zone open/short is sent to the panel for Zone 2. The default is 40 seconds.

6.19.3 Relock on Zone 2 Change?

RELOCK ON ZONE 2 CHANGE? **NO** YES

Selecting NO leaves the relay on for the door access time when Zone 2 restores. Selecting YES turns the 734/734N/734N-WiFi relay off and relocks the door when Zone 2 changes state. The default is NO.

6.19.4 Activate Zone 3 Request to Exit

ACTIVATE ZONE 3 REX? **NO** YES

Selecting YES activates the Zone 3 Request to Exit (REX) option.

Selecting NO allows standard zone operation on Zone 3 and displays the ACTIVATE ONBOARD SPEAKER option. Default setting is NO.

Optionally connect a PIR (or other motion sensing device) or a mechanical switch to Zone 3 to provide REX capability to the system. When Zone 3 **shorts**, the on-board Form C relay activates for the programmed number of seconds. During this time, the user can open the protected door to start the programmed Bypass entry/exit timer. After the programmed number of seconds, the relay restores the door to its locked state.

The 734/734N/734N-WiFi module provides a bypass-only option for REX on Zone 3. When Zone 3 opens from a normal state, only a bypass occurs: the on-board relay does not activate. This bypass-only option uses two methods of REX. The first REX device provides the programmed Bypass entry/exit timer. The second REX device, or manual device such as a door knob, unlocks the door.

An example of the bypass-only configuration is a door to an office that is locked 24 hours a day. Users pass a REX motion detector positioned by the door to begin the programmed exit timer. Within the programmed number of seconds the user must then manually activate a second device, such as a REX device or manual door knob, to unlock the door.
If the door is opened after the programmed number of seconds, the zone goes into alarm.

6.19.5 Zone 3 REX Strike Time

ZN 3 REX STRIKE TIME: **5**

Enter the number of REX seconds to elapse. Range is from 5 to 250 seconds. Press any select key or area to enter the number of seconds. The default is 5 seconds.

6.19.6 Activate Onboard Speaker

ACTIVATE ONBOARD SPEAKER? **NO** YES

Select YES to enable the onboard piezo speaker for local annunciation. Select NO to turn the piezo off for all operations. This does not affect remote annunciator open collector (RA) operation. The default is NO.

6.19.7 CARD OPTIONS: **DMP**

CARD OPTIONS: **DMP** CUSTOM ANY

Card Options

Press any select key or area to display options. Press the select key or area under DMP, CUSTOM, or ANY to select that option. Select DMP to indicate the reader sends a 26-bit DMP data string. Press the COMMAND key to display REQUIRE SITE CODE.

Note: When set to DMP, the 734/734N/734N-WiFi converts 17 bits of the 26-bit data string into a 5-digit number.

Select CUSTOM if using a non-DMP card or user code length of 6 to 12 digits.

Default is DMP.

Select ANY to allow all card reads to activate the door strike relay. The door strike relay is activated for the length of time programmed in ZN 3 REX STRIKE TIME. No user code information is sent to the panel.

6.19.8 WIEGAND CODE LENGTH: **26**

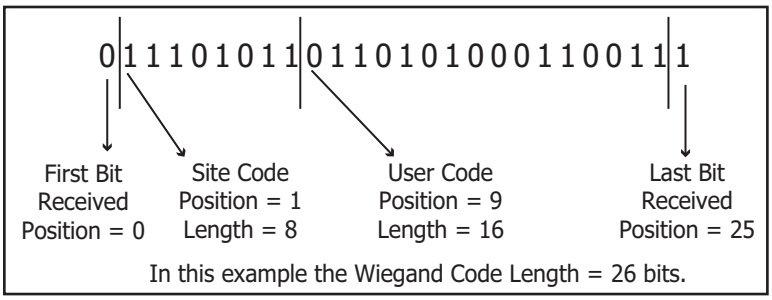
Custom Card Definitions

Wiegand Code Length

When using a custom credential, enter the total number of bits to be received in Wiegand code including parity bits.

Press any select key or area to enter a number between 1-255 to equal the number of bits. Default is 26 bits.

Typically, an access card contains data bits for a site code, a user code, and start/stop/parity bits. The starting position location and code length must be determined and programmed into the 734/734N/734N-WiFi Module.



In this example the Wiegand Code Length = 26 bits.

6.19.9 SITE CODE POSITION: **1**

734 Site Code Programming

Site Code Position

Enter the site code start position in the data string. Press any select key or area to enter a number between 0-255. Default is 1.

6.19.10 SITE CODE LENGTH: **8**

Site Code Length

Enter the number of characters the site code contains. Press any select key or area to enter a number between 1-16. Default is 8.

6.19.11 USER CODE POSITION: **9**

User Code Position

Define the User Code start bit position. Press any select key or area to enter a number between 0-255. Default is 9.

6.19.12 USER CODE LENGTH: **16**

User Code Length

Define the number of User Code bits. Press any select key or area to enter a custom number. On a 734 module, custom numbers can only be between 16-40.

On a 734N/734N-WiFi module, custom numbers can be between 1-255. The default is 16.

6.19.13 REQUIRE SITE CODE? **NO** YES

Require Site Code

Press the select key or area under YES to use a site code.

In addition to User Code verification, door access is only granted when any one site code programmed at the SITE CODE ENTRY option matches the site code received in the Wiegand string.

6.19.13.1 SITE CODE 1: -

Site Code Display

734 Module: You can program up to 8 three-digit site codes. Site code range is 0-999. Any previously programmed site codes display. Dashes represent blank site codes. Default is blank.

Note: A card with a site code greater than three digits cannot be used. Use only cards with three-digit site codes.

SITE CODE 1:
(1-65,535) 127

734N/734N-WiFi Module: You can program up to 8 five-digit site codes. Site code range is 1-65535. Any previously programmed site codes display. Site Code 1 defaults to 127. Site Codes 2-8 default to blank. Dashes represent blank site codes.

Site Code 1 displays first. Enter a site code number followed by the Command key to advance to the next option, Site Code 2. To delete an existing site code, press any select key or area. Either enter a new site code followed by Command, or press Command to leave blank and continue to the next site code. Repeat these steps to change, delete, or add up to 8 site codes.

6.19.14 Number of User Code Digits

NO. OF USER CODE
DIGITS: **5**

The 734 module recognizes user codes from 4-12 digits in length. The 734N/734N-WiFi module recognizes user codes from 1-12 digits in length. Press any select key or area to enter a user code digit length. This number must match the user code number length being used by the panel. Default is 5. For an Area System, use 4 to 12 digits (typically 5).
For all other systems and panels, use 4 digits.
Any selection above 5 digits require entry of the custom card definitions with custom site and user code positions for the Wiegand string. When searching the bit string for the user code, the digits are identified and read from left to right.

6.19.15 No Communication with Panel

NO COMM WITH PNL
OFF SITE ANY ON

This option defines the relay action when communication with the panel has not occurred for approximately ten seconds. Press any select key or area to display relay action options. Press the Back Arrow key to return to the NO OF USER CODE DIGITS:.

Choose the action required:

NO COMM WITH PNL
OFF

Press the first select key or area to choose OFF [Default] (Relay Always Off) — The relay does not turn on when any Wiegand string is received. Off does not affect any REX operation.

NO COMM WITH PNL
SITE

Press the second select key or area to choose SITE (Accept Site Code) — Door access is granted when the Wiegand site code string received matches any site code programmed at SITE CODE ENTRY. For details refer back to the REQUIRE SITE CODE option.

NO COMM WITH PNL
ANY

Press the third select key or area to choose ANY (Any Wiegand Read) — Door access is granted when **any** Wiegand string is received.

NO COMM WITH PNL
ON

Press the fourth select key or area to choose ON (Relay Always On) — The relay is always on.

Press the COMMAND key to display the next action.

NO COMM WITH PNL
LAST

Press the first select key or area to choose LAST (Keep Last State) — The relay remains in the same state and does not change when communication is lost.

After choosing the action, the NO COMM WITH PNL option and the newly defined action display. Programming is now complete. Press the COMMAND key to display DEVICE NO

REMOTE OPTIONS

Remote Options

7.1 Remote Options

REMOTE OPTIONS

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

7.2 Remote Key

REMOTE KEY:

This option allows you to enter a code of up to 16 characters. 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 select key or area and enter any combination of up to 16 digits. Press COMMAND. The current key displays as asterisks.

7.3 Remote Disarm

REMOTE DISARM?
NO **YES**

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

7.4 Armed Answer Rings

ARMED ANSWER
RINGS: 8

Enter the number of rings the panel counts before answering the phone line when all system areas are armed. Any number from 0 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 is 8 (eight).

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.

7.5 DISARMED ANSWER / RINGS: 8

Disarmed Answer Rings

Enter the number of rings the panel counts before answering the phone line while any system areas are disarmed. Any number from 0 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 is 8 (eight).

7.6 PC MODEM **NO** YES

PC Modem

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.

7.7 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.

7.8 SVC RCVR NO **YES**

Service Receiver Authorization

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.

7.9 MANUFACTURER / 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.

7.10 ALLOW NETWORK REMOTE? NO **YES**

Allow Network Remote

This option displays only if the panel has network capability. YES allows remote programming over the network. Changing this option does not change any other network programming options. Default is YES.

7.10.1 NETWORK PROG / PORT: **2001**

Network Programming Port

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

7.10.2 ENCRYPT NETWORK REMOTE? **NO** YES

Encrypt Network Remote

YES encrypts data sent over network. Default is NO.

7.11 ALLOW CELL REMOTE? NO **YES**

Allow Cellular Remote

YES allows remote programming using cellular connection. Default is YES.

7.11.1 FIRST GPRS APN: / SECURECOM400 / -

First GPRS APN

Enter the first APN (Access Point Name). This allows an access point for cellular communication and is used to connect to a DNS network. The APN may contain two lines of 16 characters to equal 32 characters. Default is set to SECURECOM400.

SECOND GPRS APN:
SECURECOM400
-

Second GPRS APN

Enter the second APN (Access Point Name). This works as a backup in case the first APN fails. The APN may contain two lines of 16 characters to equal 32 character Default is set to SECURECOM400.

7.11.2 ENCRYPT CELL REMOTE? **NO** YES

Encrypt Cellular Remote

YES encrypts data sent over a cellular connection. Default is NO.

7.12 ENTRE CONNECTION: **NONE**

Entré Connection

This option displays only if the panel has network capability. Select NET to allow a dedicated network connection with Entré. Options are NONE or NET. Default is NONE.

7.12.1 ENTRE INCOMING TCP PORT: **2011**

Entré Incoming TCP Port

This option displays only if NET is chosen for the Entré connection. Enter the programming port number for the incoming Entré connection. The programming port identifies the port used to communicate messages to and from the Entré software. This port cannot be the same port as programmed in Network Programming Port. The default Programming Port setting is 2011.

7.12.2 ENTRE IP
000.000.000.000

Entré IP Address

This option displays only if NET is chosen for the Entré connection. Enter the Entré IP address where the panel sends network messages. The Entré 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. Default is 0.0.0.0

7.12.3 ENTRE OUTBOUND TCP PORT: **2001**

Entré Outbound TCP Port

This option displays only if NET is chosen for the Entré connection. Enter the programming port number for the outbound Entré connection. The programming port identifies the port used to communicate messages to the Entré software. Default is 2001.

7.12.4 ENTRE BACKUP IP:
000.000.000.000

Entré Backup IP Address

This option displays only if NET is chosen for the Entré connection. Enter the IP backup address where the panel sends network messages if the first Entré IP Address fails. The Entré 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. Default is 0.0.0.0

7.12.5 ENTRE BACKUP TCP PORT: **2001**

Entré Backup TCP Port

This option displays only if NET is chosen for the Entré connection. Enter the backup programming port number for the outbound Entré connection in case the connection to the primary IP fails. Default is 2001.

7.12.6 ENTRE CHECKIN MINUTES: **0**

Entré Checkin

Select the rate at which check-in messages are sent over the Entré connection. Select 0 (zero) to disable check in messages. Range is 0, 3-240 minutes. Default is 0.

7.12.7 ENTRE PASSPHRASE
-

Entré Passphrase

To enable encryption enter an 8 to 16-character Passphrase using alphanumeric characters. If you leave the Passphrase blank, the panel communicates with Entré, but the data is not encrypted. The Passphrase is blank by default.

7.13 SEND LOCAL
CHANGES? **NO**

Send Local Changes

This option allows the panel to automatically update Remote Link at the central station with any changes made to the panel.

SEND LOCAL
NO NET DD

Select NET or DD to send local programming changes or User Menu changes to user codes, user profiles, schedules, or holiday dates to Remote Link after exiting the programming or User Menu. If NET is selected, changes are sent using Network. If DD is selected, changes are sent using Dialer. Default is NO to disable this feature.

7.13.1 REMOTE CHANGE IP
000.000.000.000

Remote Change IP

This option displays when NET is selected for Send Local Changes. Enter the IP address containing up to 12 digits. The Net 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. Default is 000.000.000.000

7.13.2 REMOTE CHANGE PORT: **2002**

Remote Change Port

This option displays when NET is selected for Send Local Changes. Enter the Port number. Valid numbers are from 0 to 65535. Default is 2002.

7.13.3 REMOTE PHONE NO. / - / -

Remote Telephone Number

This option displays when DD is selected for Send Local Changes. Press COMMAND to enter the phone number the panel dials when sending programming changes. After entering a phone number, the panel sends any panel changes to Remote Link.

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. Dial tone detect is an automatic panel function.

7.14 APP KEY:

App Key

Enter the 8-digit App Key obtained in your Dealer Settings tab at vk.securecomwireless.com.

This option is a security feature of the Virtual Keypad iPhone/Android App used only when your Dealer Settings at vk.securecomwireless.com have “EASYconnect” set as the Communication Type.

This communication option is only available for panels with onboard network and is used to eliminate the need for a static IP address programmed in Network Options. To enter a new App Key, press any select key or area and enter any combination of 8 digits. Press COMMAND. The default for this option is blank.

System Reports

8.1 SYSTEM REPORTS

System Reports

Select specific system reports the panel sends to the receiver.

8.2 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.

8.3 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 or area 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.

8.4 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.

8.5 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.

8.6 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.

8.7 ACCESS KEYPADS:

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

Access Keypads

Select the keypad addresses (1 through 16) 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. Press COMMAND to display the next set of keypads.

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.

8.8 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

9.1 SYSTEM OPTIONS

System Options

This section allows you to select system-wide parameters.

9.2 SYSTEM: AREA

AREA A/P H/A GST

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 32 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.

HOME/SLEEP/AWAY WITH GUEST- This allows the alarm system to be divided into a main house HOME/SLEEP/AWAY system and two other guest houses that also are set up as HOME/SLEEP/AWAY systems.

Areas 1, 2, and 3 are the Perimeter, Interior, and Bedrooms for the Main house system. Areas 4, 5, and 6 are the Perimeter, Interior, and Bedrooms for the Guest 1 house system. Areas 7, 8, and 9 are the Perimeter, Interior, and Bedrooms for the Guest 2 house system. These areas are automatically assigned per system and cannot be changed. See Display Areas in Device Setup to assign keypads to a system. Zones are assigned to a system by assigning the system's area numbers to the zone in Zone Information programming.

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

Note: Areas 3-32 in an All/Perimeter system, areas 4-32 in a Home/Sleep/Away system, and areas 9-32 in a Home/Sleep/Away with Guest system are not available for use and are initialized.

9.3 INST ARM **NO** YES

Instant Arming

When YES is selected, the arming keypad displays INSTANT for selection during the exit countdown delay when arming fewer than all areas of the system. At the time instant arming is selected, any entry and exit delays programmed for the areas being armed are ignored. The entry delay for previously armed areas is not affected by instant arming. When NO is selected, INSTANT does not display during arming. Default is NO for an Area System, and YES for an All/Perimeter or Home/Sleep/Away system.

9.4 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.

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

9.6 CRS ZONE TM: 4

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 4.
See the Appendix.

9.7 RETARD DELAY: 10

Zone Retard Delay

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.

9.8 PWR FAIL HRS: 1

Power Fail Delay

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.

9.9 SWGRBYPS TRIPS: 2

Swinger Bypass Trips

Enter the number of times (1-6) a zone can go into an alarm or trouble condition within one hour before being automatically bypassed. 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 2.

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.

9.10 RST SBYP **NO** YES

Reset Swinger Bypass

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.

9.11 ZN ACTY HRS: 0

Zone Activity Hours

This option provides supervision of a person living alone for non-activity. Enter the number of hours, 0 to 9, allowed to elapse without a disarmed zone being tripped before a message is sent to the receiver. Default is 0 (zero).

When the system is disarmed, the timer begins to countdown the number of hours programmed. Each time activity occurs, the timer restarts the countdown.
Before the countdown time expires, the keypad sounds a tone and PRESS ANY KEY displays to allow the user to restart the activity timer. The duration of the tone is the number of seconds programmed for Entry Delay 2.
Select the SUPV/TRBL receiver option in communication programming to send S93 ALARM: User Activity Not Detected, S94 Alert: Activity Check Enabled, and S95 Alert: Activity Check Disabled messages.
When an open/close schedule is programmed, the timer only counts down during the scheduled open period. Also, when a schedule is programmed, if the timer is counting down and the scheduled open time occurs, the timer resets and begins the countdown again.

9.12 Time Zone Changes

TIME CHG NO **YES**

This function allows the panel to request automatic time changes from the DMP SCS-1R Receiver on Path 1. 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 difference between the Greenwich Time zone (GMT) and 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
11	Midway Island, Samoa, Hawaii*
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

***Arizona, Hawaii, American Samoa, Guam, Puerto Rico, and the Virgin Islands do not observe daylight savings time.**

9.13 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.

9.14 Programming Menu Language

PROG LANGUAGE

Press the COMMAND key to select the programming language. 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 or area 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)

9.15 User Menu and Status List Language

USER LANGUAGE

Press the COMMAND key to select User language.

PRI LANG: **ENGLSH**

The current primary user language displays. The default language is English. Press any select key or area 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 or area 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)

9.16 BYPASS LIMIT **0**

Bypass Limit

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).

9.17

WIRELESS
HOUSE CODE: 0

House Code

When using a DMP wireless system, enter a house code between 1 and 50. 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.

9.18

DETECT WIRELESS
JAMMING: **NO** YES

Detect Wireless Jamming

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.

9.19

WLS AUDIBLE: DAY

WIRELESS AUDIBLE
ANY **DAY** MIN

Wireless Audible Annunciation

This option displays when the House Code entered is for a DMP 1100 Series Wireless system (1-50). Press any top row key to select the keypad buzzer annunciation method for wireless low battery and missing messages. Select ANY to enable annunciation anytime. Select DAY to enable annunciation except during sleeping hours (9 PM to 9 AM). Select MIN (minimum) to annunciate only Fire and Fire Verify zones during daytime hours (9 AM to 9 PM). Default is DAY.

9.20

KEYPAD PANIC KEYS
ENABLED: NO **YES**

Enable Keypad Panic Keys

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.

9.21

OCCUPIED
PREMISES: NO **YES**

Occupied Premises

For All/Perimeter or Home/Sleep/Away systems, select YES to allow the panel to automatically disarm the interior area(s) when arming all areas and a perimeter zone is not tripped during the exit delay.

This False Alarm Reduction feature will keep a user from arming the entire system when they do not exit and remain in the premise. Select NO to not automatically disarm interior area(s). Default is YES Select NO to disable this feature. Default is YES.

Note: With a Home/Sleep/Away with Guest arming system, this feature only applies to the main system.

9.22

ENHANCED ZONE
TEST: **NO** YES

Enhanced Zone Test

Select YES to allow enhanced zone test operation for Walk Test (8144), Panic Test, and Burglary Zone Test in the User Menu. The default is NO.

Enhanced operation allows:

- A Verify message to be sent each time a zone is tested. If a zone is tripped multiple times, a Verify message is sent for each trip. This allows the Central Station to record the number of devices per zone.

- The Verify message for each zone test to be sent at the time the trip occurs instead of at the end of Walk Test.
- The System Test Begin and System Test End Central Station messages indicate the type of zone being tested. The System Test Begin message also includes the user name and number.

9.23 SEND 16 CHAR NAMES: NO **YES**

Send 16 Character Names

This option allows central stations to select being sent either the first 16 characters of the name field or the entire programmed name, up to 32 characters, for user name, user profile, zone name, area name, output name, and group name.

Select YES to have the first 16 characters of the name field sent to the central station. Select NO to send the exact number of characters entered in the name field from 1 up to the maximum of 32 characters. Default is YES.

Note: Using 32 character names increases the length of the DMP Serial 3 message from the panel to the receiver. The SCS-1R receiver does not require an update to pass these messages to the Host Automation System of the Central Station. Before using names longer than 16 characters, determine whether the Host Automation System of your Central Station can accept 17 to 32 character names. If not, only use 16 character names.

9.24 KEYPAD ARMED LED **ALL**

KEYPAD ARMED LED ALL ANY

Keypad Armed LED

This option displays only when using an Area system. Press any top row key to select the operation of the Armed LED on the keypad. Select ALL to require all keypad display areas to be armed before the keypad Armed LED turns on. Select ANY to turn on the keypad Armed LED when any keypad display area is armed. Default is ALL.

9.25 USE FALSE ALARM QUESTION NO **YES**

Use False Alarm Question

This option allows users to investigate a burglary alarm prior to disarming the system and send an Alarm Verified or Alarm Cancelled message to the Central Station.

Select YES to display IS THIS A FALSE ALARM? NO YES when a burglar alarm occurs. Select NO to display CANCEL VERIFY. Default is YES.

When a burglar alarm occurs in an area system and a user code is entered at a keypad Status List, keypads programmed as KPD in Device Setup display IS THIS A FALSE ALARM? NO YES or CANCEL VERIFY. The option is not displayed at devices programmed as DOOR. Selecting NO or Verify sends an alarm message to the Central Station. Selecting YES or CANCEL sends an alarm cancelled message to the Central Station and disarms the areas that the user has the authority to disarm. This display remains on the keypad until a selection is made, the Back Arrow is pressed, or the internal system bell cutoff timer expires.

9.26 ALLOW OWN USER CODE CHG? **NO** YES

Allow Own User Code Change

This option allows users without user code authority to change their own user code. When YES is selected,the User Code menu displays USER CODE: ***** at the keypad to allow that user to change their own code. If NO is selected, the user cannot change their personal user code. Default is NO.

9.27 PANIC SUPRVISION: **NO** YES

Panic Supervision

Select YES to enable a 30 day supervision of the Model 1145-1-B-PSV key fob. Default is NO.

This option allows a key fob that is lost or has a dead battery to be identified at the Central Station host automation system as a missing transmitter, without the need to apply a supervision time in zone information programming. SCS-VR Version 1.3.6 or higher is required to receive 1145-1-B-PSV supervision messages through the XR550 panel.

The 1145-1-B-PSV key fob supervision message is communicated to SCS-VR using all XR550 communication paths where Panic Test is YES within Advanced Communication programming. A supervision message is automatically sent from the key fob to SVS-VR every four hours, resetting the 30 day countdown timer for that key fob serial number. If the 30 day timer expires for a key fob serial number, SCS-VR will generate a zone missing message to the host automation system. For the application where the key fob is programmed into several XR550 Version 210 or higher panels, a supervision message sent through any XR550 into which the key fob is programmed will satisfy the 30 day timer. The SCS-VR zone missing message to host automation will be for the last panel account number where the key fob successfully communicated a supervision message to SCS-VR. The key fob MISSING is not displayed or recorded at the XR550 control panel.

In addition, this option allows for manual testing of 1145-1-B-PSV key fobs during Walk Test (8144) or Panic Test from the User Menu. A key fob that is successfully activated during these test modes will cause an increment to the keypad display TRIPS counter and a Verify message is sent to SCS-VR for that zone. For those 1145-1-B-PSV key fobs that are programmed into the panel but not manually tested, a Fail message is NOT displayed at the keypad and is not sent to SCS-VR.

9.28 INACTIVE USER AUDIT DAYS: 0

Inactive User Code Audit

This option allows users to choose the number of days a user code can remain unused before the panel sends an Inactive User Code message to the receiver. The range is 0-365 days. The default is 0.

9.29 ENTER WEATHER ZIP CODE: 0

Weather Zip Code

This option allows local U.S.A. weather updates to display on the keypad. Enter the zip code of the user at this option. When no number is entered weather conditions are not displayed. Default is 0 (zero).

If using a 7800 Series keypad, the current weather conditions and the next day's forecast display as graphics on the Main Screen. All other DMP keypads display the weather information in the Status List.

Bell Options

10.1 BELL OPTIONS

Bell Options

This section allows you to program the panel bell output functions.

10.2 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: To support the Alarm Verify feature on an All/Perimeter or Home/Sleep/Away system, set the Bell Cutoff Time to greater than 0.

10.3 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 programmed). 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.

10.4 BELL OUTPUT: 0

Bell Output

Enter the output/Favorite number when needed to follow the panel Bell Output operation for all action and off conditions. Enter 0 (zero) to disable.

Note: When BELL ACTION is set to T for Temporal Code 3, the Bell Output action for an LX-Bus output is pulse.

Note: Bell Output should not be programmed for a Model 1135 Wireless Siren when programmed in Output Information to Trip with Panel Bell.

10.5 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 or area 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.

10.5.1 FIRETYPE: **T**

Fire Bell Action

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

10.5.2 BURGLARY TYPE: **S**

Burglary Bell Action

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

10.5.3 SUPRVSRY TYPE: **N**

Supervisory Bell Action

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

10.5.4 PANICTYPE: **N**

Panic Bell Action

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

10.5.5 EMERGNCY TYPE: **N**

Emergency Bell Action

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

10.5.6 AUXLRY 1 TYPE: **N**

Auxiliary 1 Bell Action

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

10.5.7 AUXLRY 2 TYPE: **N**

Auxiliary 2 Bell Action

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

Output Options

11.1 OUTPUT OPTIONS

Output Options

This section allows you to program panel output options. The panel provides two Form C relays (1 and 2) and four switched ground (open collector) outputs numbered 3 to 6. Expand the system up to 500 additional relay outputs using any LX-Bus on the panel, or multiple 716 Output Expander Modules. In addition, 45 wireless outputs are available when using the 1100X Series wireless receiver. Refer to the XR150/XR550 Series Installation Guide (LT-1233) for complete information.

Select from the following output numbers:

- 1 to 6
- 450 to 474 — Slow response time* wireless outputs (activates within 15 seconds)
- 480 to 499 — Fast response time* wireless outputs (activates within 1 second)
- 500 to 999 — LX-Bus output, Relay output, Zone expansion output
- D1 to D16 — Keypad door strike relay for addresses 1-16
- F1 to F20 — To activate Z-Wave Favorites
- G1 to G20 — Output group

***** The response time of a wireless output is the time it takes for a wireless output to activate once the panel event occurs. You determine whether a wireless output is a slow or fast response based on the output number assigned. A slow response output number extends battery life, but response time may be up to 15 seconds. A fast response output number responds within 1 second, but reduces battery life. Refer to the specific wireless output installation guide to determine battery life.

11.2.1 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 or area to clear the display then press COMMAND. The Cutoff Output displays dashes when no outputs are selected.

11.2.2 CUTOFF TIME: 0

Output Cutoff Time

If a Cutoff Output (1-6) is assigned, enter a Cutoff Time of 1 to 99 minutes for the output to remain on. Enter 0 (zero) for continuous output.

11.3 COM FAIL OUT: 0

Communication Trouble Output

Enter the output/Favorite 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 Trouble 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 Trouble 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.

11.4 FIRE ALR OUT: 0

Fire Alarm Output

Enter the output/Favorite 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.

11.5 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 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.

11.6 PANIC ALM OUT: 0

Panic Alarm Output

Enter the output/Favorite 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.

Wireless Outputs

- The Panic Alarm is compatible with the Model 1118 Wireless Remote Indicator Light and the Model 1116 Wireless Relay Output connected to a Model 572 Indicator LED.
- When a Panic Alarm occurs, the LED turns on steady for five minutes and then turns off.
- When a Panic Test is initiated from the keypad, the LED flashes quickly for five minutes.
- For a Panic Alarm, a fast response wireless output number is recommended.

11.7 AMBUSH OUT: 0

Ambush Output

Enter the output/Favorite 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.

11.8 ENTRY OUT: 0

Entry Output

Enter the output/Favorite 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.

11.9 BEG EXIT OUT: 0

Begin Exit Output

This output/Favorite turns on any time an exit delay time starts. The output turns off when the system arms or when the arming has been stopped. Enter 0 (zero) to disable.

11.10 END EXIT OUT: 0

End Exit Output

This output/Favorite turns on any time an exit delay time ends. The output turns off when the system disarms. Enter 0 (zero) to disable.

11.11 READY OUT: 0

Ready Output

Enter the output/Favorite 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.

11.12 DISARMED OUT: 0

Disarmed Output

This output/Favorite turns on when all areas of the panel are disarmed. The output turns off when an area is armed.

11.13 PH TRBL OUT: 0

Telephone Trouble Output

Enter the output/Favorite number to turn on when the phone line monitor on the panel phone line is lost. Enter 0 (zero) to disable this output.

11.14 LATE CLS OUT: 0

Late To Close Output

Enter the output/Favorite 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.

11.15 DVC FAIL OUT: 0

Device Fail Output

Enter the output/Favorite 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 programming in 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.

11.16 SNSR RST OUT: 0

Sensor Reset Output

Enter the output/Favorite 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.

11.17 CLS WAIT OUT: 0

Closing Wait Output

Enter the output/Favorite 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.

11.18 ARM-ALARM OUT: 0

Arm-Alarm Output

Enter the output/Favorite number to turn on steady when any area of the system is armed. If an alarm occurs causing the keypads to turn Red, this output pulses and continues to pulse for approximately five (5) minutes after the panel is disarmed. Enter 0 (zero) to disable.

Wireless Outputs

- The Arm-Alarm Output is compatible with the Model 1117 Wireless LED Annunciator and the Model 1116 Wireless Relay Output connected to a Model 572 Indicator LED.
- When the Model 1117 is battery operated, the LED is off when the system is armed to conserve battery life. If an alarm occurs, the output flashes quickly.
- When using the Model 1116 connected to a Model 572, the LED is on when the system is armed. If an alarm occurs, the output pulses.
- To operate the Arm-Alarm output within one second, program a fast response number from 480 to 499. Fast response operation reduces overall wireless output battery life.
- To operate the Arm-Alarm output within 15 seconds, program a slow response number from 450 to 474. Slow response operation increases overall wireless output battery life.

11.19

```
SUPV ALM OUT:    0
```

Supervisory Alarm Output

Enter the output/Favorite number to turn on when a supervisory zone type is placed into an alarm. The output turns off when all supervisory type zones are restored to normal. Enter 0 (zero) to disable. Default is 0.

11.20

```
HEAT SAVER
TEMPERATURE:     0
```

Heat Saver Temperature

Enter the desired temperature setting for all Z-Wave thermostats when the system is armed ALL or AWAY. When the system is disarmed the thermostats return to their previous settings. The range is 55-95 degrees. Enter 0 (zero) to disable.

11.21

```
COOL SAVER
TEMPERATURE:     0
```

Cool Saver Temperature

Enter the desired temperature setting for all Z-Wave thermostats when the system is armed ALL or AWAY. When the system is disarmed the thermostats return to their previous settings. The range is 55-95 degrees. Enter 0 (zero) to disable.

Output Information

12.1

```
OUTPUT INFO
```

Output Information

This section allows you to program wireless outputs and name wired outputs.

12.2

```
OUTPUT NO.   X X X
```

Output Number

Enter an output number. Entry range is 1 to 6, 450 to 474, 480 to 499, 500 to 999.

In order for wireless output troubles to display at a keypad, the keypad address must be specified at the Auxiliary 1 Zones option in the Status List programming.

12.3

```
OUTPUT NAME
```

Output Name

This section allows you to define a 32 character alphanumeric name for any output numbers. The name can display on the keypad when a user performs the browser feature at Outputs On/Off. See the XR150/XR550 User's Guide (LT-1278) Appendix for browser operation.

12.4

```
OUTPUT REAL-TIME
STATUS      NO  YES
```

Output Real-Time Status

Selecting YES allows Real-Time Status reports of a hardwire device, such as Output ON, OFF, PULSE, or TEMPORAL to be sent using PC Log reports. Selecting NO disables Real-Time Status for this output device. Default is NO.

12.5

```
SERIAL#: XXXXXXXX
```

```
ALREADY IN USE
OUTPUT NO: XXX
```

Serial Number

This option and the next option only display when the output number entered is for a wireless output. Enter the eight-digit serial number found on the wireless device.

This message displays when the serial number is already programmed for another output. The programmed output number displays.

12.6

```
SUPRVSN TIME:    240
0    3    60    240
```

Supervision Time

Press any select key or area to select the supervision time required for the wireless output. Press COMMAND to accept the default time. Default is 240 minutes.

Select 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 check in based on the supervision time selected for the wireless zone, no additional programming is needed. Zero (0) indicates an unsupervised transmitter.

The 3 minute supervision time is only available if using an 1135 Wireless Siren.

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

12.7

```
TRIP WITH PANEL
BELL        NO  YES
```

Trip with Panel Bell Option

This option displays when the wireless device is an 1135 wireless siren. Select YES to have the 1135 wireless siren follow the panel's bell output cadence for the zone type and bell cutoff time up to 15 minutes. Default is YES.

Output Groups

13.1 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.

13.2 GROUP NO: -

Group Number

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

13.3 GROUP NAME X X

Group Name

The group name displays. To change the default name, press any select key or area then enter up to 32 characters for the group name. Press COMMAND to enter the outputs to be assigned to the group.

13.4

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, 450 to 474, 480 to 499, 500 to 999 (outputs), F1 to F20 (Favorites), D1 to D16 (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 XR150/XR550 User's Guide (LT-1278) 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

14.1 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. Press the COMMAND key to display the next set of keypads (9 through 16). Refer to the Multiple Displays section at the beginning of this document.

14.2 ARMED STATUS:

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

*9	*10	*11	*12
*13	*14	*15	*16

Armed Status

Enter the keypad addresses (1 through 16) that show the armed areas. The User Menu Armed Areas function also displays the custom area name you enter in Area Information.

When only areas one to eight are used, the Armed Status display is 1 2 3 4 5 6 7 8. When areas nine or higher are used the system Armed Status display reads ALL SYSTEM ON or SYSTEM ON. Press the COMMAND key to display additional areas. Refer to the Multiple Displays section at the beginning of this document and in the XR150/XR550 User's Guide (LT-1278).

14.3 TIME DISPLAY:

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

*9	*10	*11	*12
*13	*14	*15	*16

Time

Enter the keypad addresses that can display the time and day of the week. Refer to the Multiple Displays section at the beginning of this document and in the XR150/XR550 User's Guide (LT-1278).

14.4 ARM/DIS DISPLAY:

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

*9	*10	*11	*12
*13	*14	*15	*16

Arm/Disarm

Enter the keypad addresses from which users can arm and disarm areas. Refer to the Multiple Displays section at the beginning of this document and in the XR150/XR550 User's Guide (LT-1278).

Status List

15.1 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. Press the COMMAND key to display the next set of keypads (9 through 16). Refer to the Multiple Displays section at the beginning of this document.

15.2 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.

15.3 SYSTEM TROUBLES:

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

*9	*10	*11	*12
*13	*14	*15	*16

System Monitor Troubles

Specifies the keypad addresses (1 through 16) 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 Receiver Trouble
- Wireless Jamming Trouble or Alarm

The System Monitor name is placed in the Status List and the keypad steady trouble buzzer sounds. The buzzer remains on until any select key or area 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.

15.4 FIRE ZONES:

Fire Zones

Specifies the keypad addresses (1 through 16) 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 select key or area 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

15.5 BURGLARY ZONES:

Burglary Zones

Specifies the keypad addresses (1 through 16) 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, or 10 minutes elapse without an alarm. 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.

15.6 SPRVISORY ZONES:

Supervisory Zones

Specifies the keypad addresses (1 through 16) 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.

15.7 PANIC ZONES:

Panic Zones

Specifies the keypad addresses (1 through 16) 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.

15.8 EMERGENCY ZONES:

Emergency Zones

Specifies the keypad addresses (1 through 16) 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.

15.9 AUX 1 ZONES:

Auxiliary 1 Zones

Specifies the keypad addresses (1 through 16) 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.

15.10 AUX 2 ZONES:

Auxiliary 2 Zones

Specifies the keypad addresses (1 through 16) 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.

15.11 COMM PATH TRBL:
NO YES ALL

Communication Trouble

Specifies when communication troubles are displayed on keypads that are programmed to display System Monitor Troubles. Default is NO.

Select YES to display communication trouble when any communication path fails.

Select ALL to display communication trouble only when all paths have failed.

PC Log Reports

16.1 PC LOG REPORTS

PC Log Reports

This section allows you to program the types of PC Log Reports the panel sends through the ETHERNET Port directly on the 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. See the XR150/XR550 Series Installation Guide (LT-1233) for detailed Ethernet setup information or the XR150/XR550 Series User's Guide (LT-1278) for more information.

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.

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

16.2 NET IP ADDRESS

000.000.000.000

Net IP Address

This option displays when the Communication Type for PC Log Reports is NET. Enter the IP address containing up to 16 characters. The Net 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. The default is 000.000.000.000 and turns the output off.

16.3 NET PORT **2001**

Net Port

This option displays when Communication Type for PC Log Reports is Net. Enter the Port number. Valid numbers are from 0 to 65535. Default is 2001.

16.4 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.

16.5 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.

16.6 USR CMDS **NO** YES

User Command Reports

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

16.7 DOOR ACS **NO** YES

Door Access Reports

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

16.8 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
- Exit Error
- Ambush
- System Recently Armed
- Alarm Bell Silenced
- Unauthorized Entry
- Late to Close*

* 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.

16.9 PC LOG REAL-TIME STATUS **NO** YES

PC Log Real-Time Status

Select YES to send Real-Time Status reports for zones, doors, and outputs. The specific reports must also be selected by individual zone or output. The Real-Time Status messages are sent to a PC running a graphic display software. Default is NO.

The messages that can be sent are:

- Door Open with zone number
- Door Closed with zone number
- Door Open with door number
- Door Closed with door number
- Output On
- Output Off
- Output Pulse
- Output Temporal

Area Information

17.1 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.

When only areas one to eight are used, the Armed Status display is 1 2 3 4 5 6 7 8. When areas nine or higher are used the system Armed Status display reads ALL SYSTEM ON or SYSTEM ON. Press the COMMAND key to display additional areas.

Refer to the Multiple Displays section at the beginning of this document and in the XR150/XR550 User's Guide (LT-1278).

17.2 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 30 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.

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 the length of time set in Bell Cutoff programming

17.3 BURG BELL OUT: 0

Burglary Bell Output

Enter the output number (0 to 6, 500 to 999, G1 to G20, D1 to D16, or F1 to F20) 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 option. 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.

17.4 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.

17.5 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-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.

17.6 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.

17.7 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.

17.8 AREA SCH **NO** YES

Area Schedules

Select **YES** to allow each area to follow individual sets of area schedules programmed in the User Menu. Select **NO** for all areas to follow only one set of schedules in the User Menu. See the panel User Guide to add schedules to the panel.

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

17.9 EARLY AMBUSH: 0

Early Morning Ambush (Network panels only)

Enter the number of minutes (1 to 15) before a silent alarm (Early Morning Ambush S33) is sent to the central station using the area 1 account number. Enter 0 (zero) to disable this option.

When a user code is entered to disarm area 1 at a keypad or reader with Access Areas assigned to area 1, the same or different user code must be entered within the programmed number of minutes to prevent an ambush message from being sent to the receiver. The second user code also must have authority to disarm area 1.

In addition, a zone activation with Alarm Action Message C also cancels the Early Morning Ambush timer and stops an Ambush message from being sent to the receiver. See Report to Transmit section in Zone Information.

The keypad does not display any indication that the ambush timer is running.

Indications can be provided by assigning an output number to Entry Out and Ambush Out in Output Options. Entry Out turns on one minute before the timer expires and turns off at expiration. Ambush Out turns on at the timers' expiration and turns off when Sensor reset is performed.

17.10 AREA NO: -

Area Number

Enter the number of the area to program. After entering the area number, press COMMAND to enter the area name. Only Area systems allow the area name to be changed.

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

17.10.1

INT PERIM

All/Perimeter Programming

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

17.10.2

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.

17.11 * UNUSED *

Area Name

The area name can be up to 32 alphanumeric characters. To add an area name to the system, press any select key or area and then enter up to 32 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 *. Only systems programmed for Area arming have the option available to change the area name.

To mark an active area unused, press any select key or area 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.

Home/Sleep/Away with Guest systems display the area name, but the names cannot be changed. The following are the display names that appear on the keypad:

Area	Display
1	Perimeter
2	Interior
3	Bedrooms

Area	Display
4	Guest1 Perimeter
5	Guest1 Interior
6	Guest1 Bedrooms

Area	Display
7	Guest2 Perimeter
8	Guest2 Interior
9	Guest2 Bedrooms

17.12 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 in Communications. This account number is used when sending area messages and events to the central station. See the Area Account Number Messages in the Appendix.

17.13 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.

17.14 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.

BYPFORC 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.

17.15 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.

17.16 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 turns 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.

17.17 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).

17.18 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 XR150/XR550 Series User's Guide (LT-1278).

17.19 BANK/SAF **NO** YES

Bank Safe & Vault (XR550 with Network or Encryption only)

NO disables the Bank Safe & Vault feature for this area. When selected as **YES**, schedules set for any area and the time of day cannot be changed while the area is armed.

Program schedules before arming: A Bank Safe & Vault area can only be disarmed during scheduled times. If the area becomes armed before programming a schedule, the panel must be reset before the area can be disarmed from a keypad or the **Bank Safe** & **Vault** option in **Area Information** must be set to **NO**.

Zones assigned to Bank Safe & Vault areas cannot be bypassed or force armed. Do not assign Bank Safe & Vault area to an Arming zone. Arming zones can disarm Bank Safe & Vault areas outside of a schedule.

17.20 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.

17.21 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.

17.22 TWO MAN **NO** YES

Two Man Rule (XR550 with Network or Encryption only)

Select YES to require two user code entries to disarm and/or allow door access to this area. When a user presents a code to a keypad or reader requesting a door access or disarm, 2ND CODE displays and requires the entry of a different user code with at least the same authority. The second user code must be entered within 30 seconds.

NO disables the Two Man Rule for this area.

Zone Information

18.1 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 panel, Security Command keypad, or zone expander are programmed the same way.

18.2 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.

Note: The available LX-Bus connections for the panels are:
XR150-LX500
XR550-LX500 through LX900

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
9	91-94
10	101-104
11	111-114
12	121-124
13	131-134
14	141-144
15	151-154
16	161-164
1144 Series Key Fob	400-449
LX-Bus 500	500-599
LX-Bus 600	600-699
LX-Bus 700	700-799
LX-Bus 800	800-899
LX-Bus 900	900-999

Note: For 1144 Series Key Fob zones (400-449), programming continues at the 1144 Series Key Fobs Section.

18.3 * UNUSED * — Zone Name

Zone names can have up to 32 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 or area and then enter up to 32 characters for the new zone name. Press COMMAND to continue.

To mark a zone unused, delete the old name by pressing any select key or area, then press the COMMAND key. The programmer automatically programs the name as * UNUSED *. If you have already cleared Zone Information during Initialization, the zones is marked * UNUSED *.

18.4 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 or area. 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 COMMAND for additional zone types.

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. Arming zone type programming continues at Arming Zone Area Assignment.

Refer to the Appendix for complete zone type descriptions.

18.5 Area Assignment

AREA NO: -

Enter the area number where the Night, Day, Exit, Auxiliary 1, or Auxiliary 2 zone is being assigned. For an Area system, area numbers 1-32 can be assigned. For a Home/Sleep/Away with Guest system, area numbers 1-9 can be assigned.

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.

18.6 Fire Bell Output

FIRE BELL OUT: 0

This output (1 to 6, 500 to 999, F1 to F20, G1 to G20, or D1 to D16) 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.

18.7 Arming Zone Area Assignment

ARM/DIS AREAS

In an Area or Home/Sleep/Away with Guest 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.

ARM AREAS: PERIM

PERIM ALL

HOME SLEEP AWAY

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).

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.

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 - 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.

18.8 Style

STYLE:

This option specifies the style for the arming/disarming operation. The default style is TGL (toggle). Press any select key or area 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 causes no action. An open condition disarms the programmed areas and beep the keypads for one second.

Note: This arming style is designed for wireless arming pendants. When using an 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.

18.9 Next Zone

NEXT ZN? NO YES

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 18.12.

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 999 range.

- Zones 400 to 449 can be programmed for 1144 Series Key Fobs.
- Zones 500 through 999 can be programmed for DMP 1100 Series Wireless.

  XR150 Wireless Zones 500 - 599.

  XR550 Wireless Zones 500 - 999.

DMP Wireless

For a DMP 1100X Wireless Receiver set the House Code from 1 to 50. See House Code programming in System Options. Zones 500 through 999 can be programmed as Wireless zones. Briefly reset the panel using the RESET jumper to activate Wireless operation. Refer to the XR150/XR550 Series Installation Guide (LT-1233).

For an 1144 Series Key Fob see section **18.11.**

NOTE: All wireless programming is stored in the 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.

18.10

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.

18.10.1

TRANSMITTER
SERIAL#: XXXXXXXX

Serial Number Entry

Enter the eight-digit serial number found on the wireless device.

ALREADY IN USE
ZONE NUMBER: XXX

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

18.10.2

TRANSMITTER
CONTACT:XXXXXXXX

Contact

This option displays if the serial number entered is for an 1101, 1103, or 1106 Universal Transmitter or 1114 Wireless Four-Zone Expander. Press any select key or area to select the contact.

TRANSMTR CONTACT
INT EXT

This option displays when programming an 1101, 1103, or 1106 Transmitter. Select INT to use the internal reed switch contacts. Select EXT to connect an external device to the 1101, 1103, or 1106 terminal block. Default is INTERNAL.

By allowing both of the transmitter contacts (INT and EXT) to be used at the same time, two zones may be programmed from one transmitter. When using both contacts, you must use consecutive zone numbers. Zones 531 and 532 or zones 890 and 891 are acceptable zone assignments.

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

TRANSMTR CONTACT
1 2 3 4

This option displays when programming the 1114 Wireless Four-Zone Expander with four input contacts. The same serial number is used for all four contacts. Select the contact number to program. When using the contacts, you must use consecutive zone numbers. Default is Contact 1.

For example, use serial number 08345678 to program Contact 1 for Zone 561, Contact 2 for Zone 562, Contact 3 for zone 563, and Contact 4 for zone 564.

A tamper on the 1114 is transmitted as the zone number assigned to Contact 1.

ALREADY IN USE
ZONE NUMBER: XXX

This message displays when the Contact is already programmed for another zone. The programmed zone number displays.

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, 1103 or 1106 terminal block, select NO to use normally closed (N/C) contacts. Select YES to use normally open (N/O) contacts.
Default is NO.

18.10.3

TRANSMITTER
SUPRVSN TIME: 240

Supervision Time

Press any select key or area to select the supervision time required for the wireless zone. Press COMMAND to accept the default time. Default is 240 minutes.

Note: Refer to the Wireless Check-in and Supervision Time Definitions section of the Appendix for supervision information.

SELECT MINUTES:
0 3 60 **240**

Press the select key or area 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.

The 3 minute supervision time is only available for zone types of Fire (FI), Fire Verify (FV), and Supervisory (SV).

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.

18.10.4

```
LED OPERATION
          NO YES
```

LED Operation

Select YES to turn on an 1142 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.

18.10.5

```
DISARM DISABLE
          NO YES
```

Disarm/Disable

Select YES to disable the zone tripped message from an 1103 Universal Transmitter (Version 107 or higher software) or 1126/1127 PIRs during the disarmed period. When disarmed, the transmitter or PIR only sends supervision, tamper, and low battery messages to extend transmitter battery life. For 1103 Transmitters, a zone tripped message is sent if the zone remains tripped for 20 seconds. Select NO to always send zone tripped messages in addition to supervision, tamper, and low battery. Default is YES.

18.10.6

```
WIRELESS PIR
PULSE COUNT:   4
```

PIR Pulse Count

Select the number of infrared pulses (2 or 4) the 1126 or 1127 PIR should sense before sending a short message to the 1100X Series Receiver. Default is 4.

18.10.7

```
WIRELESS PIR
SENSITIVITY:  LOW
```

PIR Sensitivity

Select the sensitivity setting for an 1126 or 1127 PIR. Selecting LOW sets the PIR to operate at 75% sensitivity for installations in harsh environments. Selecting HIGH sets the PIR to maximum sensitivity. Default is LOW.

18.10.8

```
NEXT ZONE  NO  YES
```

Next Zone

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

18.11 1144 Series Key Fobs

For an 1144 Series Key Fob set the House Code from 1 to 50. See House Code programming in System Options. Only zones 400 to 449 can be programmed as 1144 Series Key Fob zones. Refer to the 1100 Series Key Fob Programming Sheet (LT-0706) supplied with the 1100X Series Wireless Receiver and the 1144 Series Key Fob Install Guide (LT-1449) as needed.

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.

The following programming continues from the Zone Number section when zone 400-449 is selected.

18.11.1

```
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. Default is blank.

```
USER XXXX
  NOT IN USE
```

Displays when the User Number entered does not exist in User Code programming. The key fob can be added, but the user must eventually be added to cause the key fob to operate.

18.11.2

```
TRANSMITTER
SERIAL#: XXXXXXXX
```

Key Fob Serial Number

Enter the eight-digit serial number found on the wireless device.

18.11.3

```
TRANSMITTER
SUPRVSN TIME:  0
```

Key Fob Supervision Time

Press any select key or area 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        60    240
```

Press the select key or area 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. 1144 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.

18.11.4

```
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: If the key fob is a one-button model, programming continues at the Button Action section. Default button assignment for one-button key fobs is a Panic Alarm (PN) with no output assigned.

18.11.5

BUTTON:
TOP BTM LFT RGT

Key Fob Button Selection (Four Buttons)

This option only displays if the key fob being programmed is a four-button model. Press the select key or area under the key fob button to program. The following list identifies the default button assignments:

TOP Arming with no areas assigned

BTM Disarming with no areas assigned

LFT Panic Alarm (PN) with no output assigned

RGT Arming with Area 1 assigned

18.11.6

BUTTON:
TOP BTM

Key Fob Button Selection (Two Buttons)

This option only displays if the key fob being programmed is a two-button model. Press the select key or area under the key fob button to program. The following list identifies the default button assignments:

TOP Arming with no areas assigned

BTM Disarming with no areas assigned

18.11.7

BUTTON ACTION
yyy: XXXXXXXX

Button Action

This option specifies the Button Action for an individual key fob button. The default action for the button selected is displayed. Press any select key or area to display the Button Action options. To view more options press COMMAND.
yyy = the name of the button being programmed (TOP, BTM, LFT, RGT).

BUTTON ACTION
ARM DIS TGL STA

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

DIS (Disarm) - Disarms selected areas.

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

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

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

18.11.8

BUTTON
PRESS TIME: XXXXX

Button Press Time

This option specifies the amount of time (SHORT or LONG) the user must press the button before the key fob sends a message to the wireless receiver. The default press time displays. Press any select key or area 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 always two (2) seconds.

PRESS TIME:
SHORT LONG

SHORT - Press the button for one-half (1/2) second to send the message to the wireless receiver.

LONG - Press the button for two (2) seconds to send the message to the wireless receiver.

18.11.9

ARM/DIS AREAS:

Arm/Disarm Area Selection

In an Area system or Home/Sleep/Away with Guest system, this specifies the areas to be armed/disarmed by the Key Fob button being programmed. To select an area between 1 and 32, 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 XR150/XR550 Series User's Guide (LT-1278).

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.: option displays. For two-button or four-button key fobs, the Key Fob Button Selection option displays to program additional buttons.

18.11.10 OUTPUT NO: XXX — Output Number

You can specify any relay output/Favorite 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 999, D1 to D16, F1 to F20, 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/Favorite number, press any select key or area followed by the output/Favorite number. Press the COMMAND key.

18.11.11 OUTPUT ACTION: yyy: XXXXXXXX — Output Action

This option allows you to define the output action (STD, PLS, MOM, TGL, OFF) for the selected output number. The default is Steady.

yyy = the name of the button being programmed (TOP, BTM, LFT, RGT).
xxxxxxxx = the currently defined output action.

OUTPUT ACTION? STD PLS MOM TGL

STD (Steady) - The output is turned on and remains on.

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

Note: Pulse is not available for key fob button output programmed D1 to D16 or G1 to G20.

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

TGL (Toggle) - The output alternates between the on state and off state. Each button press toggles the output state.

Note: Toggle is not available for key fob button output programmed G1 to G20.

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 press, a zone action, or a schedule.

Note: When the output is assigned to PN/PN2 or EM/EM2 button action and is turned on, the output turns off when any area is disarmed.

When the output action is steady, pulse or toggle and the output is turned on, the output remains on until:

- the output cutoff time expires
- the output is reset from the keypad menu
- toggled off

18.11.12 NEXT ZONE NO YES — Next Zone

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

Note: All wireless programming is stored in the 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.

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

18.12 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.

18.13 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.

18.14 Report to Transmit

MSG: TROUBLE

Press any select key or area to display the following report options: A, T, L, S, C, 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 C

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, the output (if programmed in zone information) triggers and 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.

CANCEL AMBUSH - Select C for the zone to cancel the Early Morning Ambush timer and stop an Ambush message from being sent to the receiver. Faulting the zone takes the place of a second user code being entered at the keypad and is only available for non-fire type zones. Area assignment for the zone does not affect this option. See Early Morning Ambush in Area Information programming.

18.15 Output Number

OUTPUT NO: 0

You can specify any of the Relay Outputs on the panel to be activated by a zone condition (1 to 6, 500 to 999 if Model 716 used, D1 to D16, 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 any select key or area followed by the output number. Press the COMMAND key.

18.16 Output Action

OUTPUT: **NONE**

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

Note: Some wireless devices whether powered using an AC adaptor or a battery, ignore some output action programming.

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.

Note: For Day Zone types, when an output is turned on, a user code with silence authority can turn the output off.

After you make the three selections in the sections above, the display prompts 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.

18.17 SWGR BYP NO **YES** Swinger Bypass

Selecting 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.

18.18 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 16 addresses, leave the default setting.

To delete an address, press the matching number on the keypad. To disable prewarning at all keypads, press any select key or area 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.

18.19 ENTRY DELAY: 1 Entry Delay

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

18.20 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.

18.21 PRESGNL KEYPADS: Presignal Keypad 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 select key or area followed by the number of the keypad address. You can enable the presignal for all 16 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 option is only displayed when Retard is selected as YES.

18.22 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 999 have a fixed response time and do not display this option.

18.23 CRS ZONE **NO** YES Cross Zone

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.

18.24 PRIORITY **NO** YES Priority

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.

18.25 FIRE PANEL SLAVE INPUT: **NO** YES

Fire Panel Slave Input

This option is available on Fire Zones (FI) only and allows a fire zone the ability to provide slave communication operation for a separate fire alarm control panel. If YES, this zone will transmit a restoral immediately when restored by the fire panel being monitored. A sensor reset is not required to generate the restoral message.
If NO, this zone will operate as a standard fire type zone and a sensor reset is required before the zone will return to normal. Default is NO.

18.26 FOLLOW AREA: **0**

Area Follower

Allows Night, Day, Aux 1, or Aux 2 burglary zones to be delayed by following any exit or entry delay that is currently running in the area that is specified. Default is 0.

18.27 ZONE REAL-TIME STATUS NO YES

Zone Real-Time Status

Selecting YES allows Real-Time Status reports, such as Door Open or Closed with zone number, to be sent using PC Log reporting. Selecting NO disables Real-Time Status for this zone. Default is NO.

18.28 TRAFFIC COUNT **NO** YES

Traffic Count

This option is only displayed for NT and EX type zones. Select YES to provide reporting to the receiver of the number of zone trips while in a disarmed state. The number of trips will be included with the area closing message and reported to the central station automation system. Traffic Count data for the 10 lowest numbered zones with Traffic Count set to YES is also sent to the Virtual Keypad ™ App if enabled at vk.securecomwireless.com. Default is NO.

18.29 ZONE AUDIT DAYS:

Zone Audit Days

Enter the number of days (0 to 365) allowed to elapse without the zone being tripped before a fault message is sent. The message is sent to the receiver(s) programmed to receive Supervisory/Trouble Reports at 10:00 am following the expiration of the timer. Each time the zone is tripped, the Zone Audit Days timer restarts and begins to countdown the number of days programmed. After the countdown expires, a fault message is sent and the Zone Audit Days timer restarts and begins to countdown the number of days programmed. Available for all zone types except fire and fire verify. Enter 0 (zero) to disable this function. Default is 0 (zero).

18.30 REPORT WITH ACCT NO. FOR AREA: **0**

Report with Account Number for Area

This option is only available for 24-hour zone types (Fire, Fire Verify, Panic, Emergency, or Supervisory).
Enter the area number (1-32) to assign as a 24-hour zone type. This option sends the account number of the programmed area with messages. If the entered area number does not exist or is not valid, the account number programmed in the Communication section is sent. Select 0 (zero) to have the report sent with the account number programmed in Communication. Default is 0.

Stop

19.1 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 option, pressing any select key or area 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 1100 Series DMP Wireless transmitters are reset to NORMAL
- The panel Status List is 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.

The STOP option does not disarm the system. Any new areas or zones that were added during programming are not armed until the system is disarmed and armed again.

Missing LX-Bus™ Modules Displayed

The Programmer includes a feature following the STOP routine that displays the name of any programmed LX-Bus module not currently connected to the panel.

Power Up

When the panel is powered up after an AC power failure, any zone transitions are not recognized for 60 seconds. Normal zone processing resumes at the end of the 60 seconds.

Set Lockout Code

20.1 SET LOCKOUT CODE

Set Lockout Code

Pressing COMMAND at the STOP option 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

21.1 FEATURE UPGRADE

Feature Upgrade

In the Programming Menu, pressing COMMAND at the SET LOCKOUT CODE option displays FEATURE UPGRADE. This allows you to enable additional features in the panel. Press any select key or area 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 select key or area anywhere in the features list to display the ENTER KEY option.

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

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

21.1.1 ENCRYPTION
DISABLED

Encryption

Enable this feature to provide 128-bit or 256-bit AES data encryption. This feature upgrade can only be enabled on an XR550 panel with network. For installations where an XR550 panel is installed, it is recommended the XR550 be replaced with an XR550 panel with encryption. To verify encryption installation, access System Status in the User Menu to verify the encryption status (OFF, ON). If the status displays OFF, a Passphrase has not been entered in Network Options and data transmissions are not encrypted. See Network Options to set up a Passphrase.

21.1.2 ALL NO YES OPTN
DISABLED

All No Yes Option

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.

21.1.3 SVC USER AUTH
DISABLED

Service User Authentication

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.

21.1.4 32 DOOR ADD ON A
DISABLED

32 Door Add On A/ 32 Door Add On B

This Feature Upgrade is only compatible with the XR550 panel operating with Version 111 firmware or higher. Enable this feature to increase the door capacity for a maximum of 64 or 96 doors by applying purchased feature keys. XR150 and XR350 are incompatible with this feature upgrade.

32 DOOR ADD ON B
DISABLED

32 Door Add On A adds 32 more doors available on the AX-Bus for a total of 64 doors.

32 Door Add On B adds another 32 doors to the AX-Bus for the maximum of 96 doors.

See Device Setup for more detailed information.

Purchasing Feature Upgrades

If you would like to purchase a feature upgrade, the authorized purchasing agent for your company may contact DMP Customer Service in writing via e-mail (CUSTOMERSERVICE@DMP.COM) or call (866) 266-2826 from 8 AM to 5 PM central standard time. Include the upgrade feature(s) to enable and the panel serial number(s) on the request. 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 in several different ways: Printed on a label located on the right side of the 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

22.1 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.

22.2 Diagnostics Function

The 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. The Diagnostics function also allows you to test the integrity of the cellular communication, cellular signal, and Email communication. To use Diagnostics, reset the panel, enter the Diagnostics code 2313 (DIAG), and press COMMAND.

Test LX-Bus

This function allows you to test the ability of the panel to communicate with zone and output expander modules connected to the LX-Bus circuits.

To continue, press any select key or area. The keypad displays LX-BUS:. Using the digit keys, enter the LX-Bus number, 1 to 5, 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. Press any select key or area when TEST LX-BUS displays.

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 select key or area. 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 or area. 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 999 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 select key or area to display the panel MAC address. Press the COMMAND key to view the next option.

Serial Number

This number is the network communicator serial number. Reference this number for communicator date-of-manufacture, hardware version, etc. Press any select key or area to display the Serial Number. Press the COMMAND key to view the next option.

Loader Version

This display is for factory use only. Press any select key or area to display the factory Loader Version. Press the COMMAND key to view the next option.

Current Flash

This option displays Flash 1 or Flash 2 indicating which physical flash chip the panel is currently using. Press select key or area to display the current flash information. Press the COMMAND key to view the next option.

Communication Status

This option tests the individual components of cellular or network communication. The displayed results are shown below.

Cellular Results:

Successful Display	Failure Display
MODEM OPERATING	NO MODEM FOUND
IDENTIFIED	NO SIM CARD
TOWER DETECTED	NO TOWER
REGISTERED	NOT REGISTERED

SIGNAL: ▌▌▌▌▌▌▌
CONTINUE? NO YES

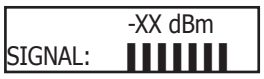
This displays the cellular signal strength of the nearest tower for the SIM card carrier. The ▌'s represent the signal strength 0-7. Select YES to continue through the remaining component tests. Select NO to stop testing and return to the COMM STATUS option.

Successful Display	Failure Display
CONNECTED	CONNECT ERROR
	NOT ACTIVATED
COMM PATH GOOD	NO ACK RECEIVED

Network Results:

Successful Display	Failure Display
LINK OK	LINK ERROR
DHCP OK	DHCP ERROR
GATEWAY FOUND	NO GATEWAY
DEST FOUND	NO DESTINATION
COMM PATH GOOD	NOT CONNECTED NO ACK RECEIVED

Cellular Signal Strength (CELL SIGNAL)



This option provides a way to test the cellular signal strength of the nearest tower for the SIM card carrier. Press any select key or area to display cell signal strength. The X's represent the numerical value of the cell signal strength in -dBm. The ▌'s represent the signal strength 0-7.

Cell Roaming Indicator (263C Only)

The Cellular Signal Strength option in the panel's Diagnostic menu contains a roaming indicator. When the 263C Cellular Communicator is roaming or not in contact with a Verizon owned tower, ROAM will be displayed on the top line of the keypad along with the signal strength. To perform the cellular activation process from a keypad, the 263C MUST be in contact with a Verizon owned tower. If the cellular communicator is in contact with a tower owned by another network, ROAM and the signal strength displays, but activation cannot be completed. This feature can be used as a diagnostic tool to troubleshoot activation issues.

Wi-Fi Signal Strength (Wi-Fi SIGNAL)

This option tests the signal strength of the selected SSID. Press any select key or area to display Wi-Fi signal strength. The ▌'s represent the signal strength 0-7.

Wi-Fi Signal Strength	
Number of Bars	**Indication**
7	**Good Signal** (Excellent for consistent operation)
6	
5	
4	**Average Signal** (Expect consistent operation)
3	
2	
1	**Weak Signal** (Will not operate reliably. Relocate Wi-Fi equipment or add a Wi-Fi extender for better reception.)
0	**No Signal**

Activate Cell (263C Only)

Note: (Version 109 or higher firmware) If the 263C Cellular Communicator has not been previously activated, Automatic Cellular Activation is performed when the panel powers up or is reset. **Activate Cell** (discussed below) is only necessary when Automatic Cellular Activation is not successful and communication was not established.

To begin the cellular activation for a 263C CDMA Cellular Communicator, verify that the 263C MEID has been added for the panel using Remote Link or by calling Customer Service (1-800-641-4282). At the keypad, press any select key or area when **ACTIVATE CELL** is displayed on the keypad. When the **SURE NO YES?** confirmation menu appears press the select key or area beneath YES to complete the cellular activation.

Successful Display	Failure Display
CELL ACTIVATED	NOT ACTIVATED

PC Programming

This allows the user to Remote Program the panel using a 399 cable attached to LX500. When the select key or area is pressed, the panel displays PROGRAMMING... at this time the panel does not communicate with any LX bus attached to LX500, and the 399 cable can be used to connect via Remote Link. PROGRAMMING... will display at the keypad for the duration of the Remote Session. Once the session has ended, or if no Remote Link connection has been established after one minute, the keypad displays RECONNECT LX BUS. From this point, if the LX500 bus should be connected within one minute.

When using the 399 cable to program the panel, the connection type should be "Direct" and the baud rate set to 38400. This connection may be used for all Remote Programming, including Remote Update.

Test Z-Wave Option

This feature allows the installer to test panel communication with Z-Wave devices. A successful test indicates a response from a device. Press any select key or area to view the Z-Wave Device List.
Press COMMAND to advance through each Z-Wave device and press any select key or area to begin the test on the device displayed.

The name of the device displays above the device number. The current number of successful communications followed by the total number of attempts displays to the right of the device number. The test stops after 99 attempts.

Press COMMAND to view the final number of successful communications.

Exiting the Diagnostics program

Press the COMMAND key until **STOP** displays. Press any select key or area. The keypad returns to the Status List display.

22.3 Using the 984 Command Function

This feature allows connection to connect to a service receiver, which is used primarily to bring a new account on-line and upload panel programming completed in Remote Link™.

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:

NUMBER: Enter a phone number into the keypad for the panel to dial. Enter any required prefixes and area codes. 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 TEST PICKUP. Press the select key or area 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 stops 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 '0' then the fourth (far right) select key or area, and to enter an * (asterisk) press the third select key or area. 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.

TEST: The panel allows you to perform a Communication Status Test on each component of the panel's cellular or network communication paths. While the Status List displays, enter 984 and press the COMMAND key. The keypad display changes to NBR TEST PICKUP. Press the select key or area under TEST to allow the panel to perform a Communication Status Test. The display prompts the user for a user code to be entered. The user code must have the authority to perform a System Test.

Upon entry of a Cell or Network path when prompted, the test runs and the results display on the keypad. See Diagnostic Functions section for a description of the Communication Status results.

PICKUP: The panel picks up the phone line when Remote Link™ calls in. The phone must be ringing before selecting 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 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 TEST PICKUP**. Press the select key or area 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 the PICKUP option is 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 PICKUP option is used before all connect attempts are made, the keypad displays SYSTEM BUSY.

22.4 Using the Walk Test

The 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 Display Areas features. When five minutes remain, TEST END WARNING displays.
The Walk Test only tests zones assigned to the areas programmed into the keypad in Display Areas. If any areas are armed the Walk Test does not start and SYSTEM ARMED displays.

Note: If the Panic Supervision option is enabled in SYSTEM OPTIONS, the panic button on any programmed key fob can be tested during the Walk Test. When the panic button is pressed a verification message is sent by the receiver.

WALK TEST

Walk Test

To conduct the Walk Test, reset the control panel by momentarily placing a jumper on RESET. From the keypad, enter the code 8144.
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 or area 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.

Note: For the Wireless Check-in Test, make sure no zone types are selected and press the COMMAND key. 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.

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. You do ***NOT*** have to hold the zones for 2 seconds in normal mode for PN type zones. 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.

WLS PIR

WLS (Wireless Check-in Test) - Select WLS to automatically test wireless transmitter communications. Includes all wireless devices except key fobs and transmitters programmed for a supervision time of 0 (zero).

PIR (Wireless PIR Walk Test) - The PIR Walk Test allows the installer to verify the 1126 or 1127 operation. When enabled, the PIR LED flashes each time motion is detected for up to 30 minutes. This is a local test only and no messages are sent to the Central Station.

BELL NO YES PULS

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 turns on for 1.6 seconds due to the polling cycle.

TRIPS: XXX END

Trip Counter For Walk Test

Once in the Walk Test, walk around and trip each protective device. Continue tripping devices until the entire system is tested.

With each zone trip during the Walk Test:

- Keypad display increments each time a selected zone is opened or shorted
- The keypad buzzes for two seconds
- The panel sounds the alarm bells as programmed in Bell Action
- Each time a FI, FV, or SV zone trips, a Sensor Reset occurs.

If **ENHANCED ZONE TEST** is selected as YES:

A Verify message is sent at the time the zone trip occurs instead of at the end of the Walk Test. For FI, FV or SV zone types, the Verify message is sent at the initial trip.
For all other zone types, the Verify message is sent when the zone restores. This allows the Central Station to count the number of devices per zone.

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.

Trip Counter For DMP Wireless Check-in Test (WLS)

Displays the number of wireless zones that automatically communicate a supervision check-in message.

- The number of zones that check in. (XXX in the example).
- The total number of wireless zones programmed for supervision that should check in. (ZZZ in the example).

CKIN:XXX/ZZZ END

END - Select END to stop the Wireless Check-in Test. When the test ends or a 20-minute time-out expires, normal wireless zone processing returns. If all transmitters check-in, both numbers match within three (3) minutes. If a transmitter has multiple zones (1101, 1114, etc.), all zones are included in the counts. Failed wireless zones 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 Walk Test. Faulted zones then display on the keypad.

Note: Key fobs do not send failure messages in order to prevent functioning key fobs that are not present at the time of the test from being reported as MISSING.

ZONE: 10 -FAIL
SOUTH LOBBY

Failed Zones Display

For each zone that did not trip (failed), except key fobs, at least once during the Walk Test, all keypads with matching Display Areas 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.

Note: For the Wireless Check-in Test, failed wireless zones display only on the keypad. Zone Verify/Fail reports are not sent to the central station receiver for the wireless check-in test.

22.5 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.

22.6 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 or SCS-VR 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.

22.7 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. The table lists the panel reports you can delay using the Events Manager option. See Figure 10.

22.8 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 XR150/XR550 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 User Profiles Record and the XR150/XR550 User's Guide (LT-1278).

Note: Profiles cannot be changed via keypad in an All/Perimeter or Home/Sleep/Away system. Use the default profiles 1 through 10.

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

Profile Name - Each profile may be assigned a 32-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 following User Profile Record. 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 areas.

First Access/Second Access - Each profile may be assigned two schedules to allow or restrict access and disarming times.

22.9 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 Groups	Arm	Disarm	Alarm Silence	Sensor Reset	Lockdown	Door Lock/Unlock	Door Access	Armed Area	Outputs On/Off	Zone Status	Bypass Zones	Zone Monitor	System Status	System Test	User Profiles	User Codes	Extend Schedules	Schedules	Time	Display Events	Service Request	Fire Drill	Temp User Code	Anti-passback	First Access, 1-99	Second Access, 1-99	Third Access, 1-99	Fourth Access, 1-99	Fifth Access, 1-99	Sixth Access, 1-99	Seventh Access, 1-99	Eighth Access, 1-99	Re Arm Delay	Easy Arm/Disarm	Sec Language	Card Plus Pin	WiFi Setup

22.10 Wireless Check-in and Supervision Definitions

DMP 1100 Series Supervision Time Explained

The supervision time programmed for DMP 1100 Series wireless is the number of minutes that must elapse before a transmitter missing message is generated for a transmitter that is not sending its automatically generated supervision message. The supervision time is programmable to 3, 60, 240 minutes. Selecting 0 (zero) disables supervision time.

22.11 Keypad Bus and LX-Bus Zone Type Descriptions

This section describes applications for the default Keypad and LX-Bus 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.

22.12 Zone Type Specifications

The 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 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 -- DY FI NT EX PN SV A2 AR	Area INT PERIM BDRM or 1 to 32	Fire Bell Output *	Disarmed Open Message ATL-DSC	Output *	Action SPMF	Disarmed Short Message ATL-DSC	Output *	Action SPMF	Armed Open Message ATL-DSC	Output *	Action SPMF	Armed Short Message ATL-DSC	Output *	Action SPMF	Swinger N or Y	Prewarn 1 to 16	Entry Delay 1 or 4	Retard Delay N or Y	Presignal 1 to 16	Fast Response N or Y	Cross Zone N or Y	Priority N or Y	Follow Area 0 to 16	Real-Time Rprts N or Y	Style TGL ARM DIS STEP MNT
Night	NT			-	0	S	-	0	S	A	0	S	A	0	S	Y						N	N	N	0	N	
Day	DY			T	0	S	T	0	S	A	0	S	A	0	S	Y						N	N	N	0	N	
Exit	EX			-	0	S	-	0	S	A	0	S	A	0	S	Y	1-16	1				N	N	N		N	
Fire	FI		0							T	0	S	A	0	S	N			N	+		N	N	N			
Panic	PN									T	0	S	A	0	S	N						N	N	N			
Emergency	EM									T	0	S	A	0	S	N						N	N	N			
Supervisory	SV		0							T	0	S	A	0	S	N			N	+		N	N	N			
Auxiliary 1	A1			T	0	S	A	0	S	T	0	S	A	0	S	N			N	+		N	N	N	0	N	
Auxiliary 2	A2			T	0	S	A	0	S	T	0	S	A	0	S	N			N	+		N	N	N	0	N	
Fire Verify	FV		0							T	0	S	A	0	S	N					N		N			
Arming	AR																									TGL
	*Output Options: 1 to 6, 450 to 474, 480 to 499, 500 to 999, D1 to D16, F1 to F20, G1 to G20. + = Set retard to YES before selecting presignal. ■ = Zone functions not available.																										

22.12.1 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 or Home/Sleep/Away with Guest system this is 1 to 32. 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 1 to 6 on-board and 500 to 999 off-board relay outputs, 450 to 474 and 480 to 499 wireless outputs, D1 to D16, F1 to F20, 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 bypassed 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

22.12.2 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 or Home/Sleep/Away with Guest system this is 1 to 32. 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.

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, C = early morning ambush cancel.

Output - These are 1 to 6 on-board and 500 to 999 off-board relay outputs, 450 to 474 and 480 to 499 wireless outputs, D1 to D16, F1-F20, 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 bypassed 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 = Maint

XR550 Series LX-Bus Zone Information	Type	Area	Fire Bell	Wireless	DMP Wireless								Disarmed Open			Disarmed Short			Armed Open			Armed Short														
			Output *	Wireless	1101 Contact	1101 EXT Contact N/O?	1114 Contact	Supervision Time	1142 LED Operation	1126 Disarm/ Disable	1126 Pulse Count	1126 Sensitivity	Message	Output *	Action	Message	Output *	Action	Message	Output *	Action	Message	Output *	Action	Swinger	Prewarn	Entry Delay	Retard Delay	Presignal	Fast Response	Cross Zone	Priority	Follow Area	Real-Time Reports	Door Number	Style
Assign Disarm condition for NT, DY, EX, A1, and A2 only. Assign Prewarn and Entry Delay for EX only. Assign Retard and Presignal for FI, SV, A1, A2, and PN only. **Zone Type Defaults**	-- NT DY EX FI PN EM SV A1 A2 FV AR	INT PERIM BDRM or 1 to 32		N or Y	INT or EXT	N or Y	1 2 3 4	0 3 60 240	N or Y	N or Y	2 or 4	Low or High	A T L -D S C		S P M F	A T L -D S C		S P M F	A T L - D S C		S P M F	A T L - D S C		S P M F	N or Y	1 to 16	1 2 3 or 4	N or Y	1 to 16	N or Y	N or Y	N or Y	0 to 16	N or Y	0 to 16	TGL ARM DIS STEP MNT
NIGHT	NT			N	INT	N	1	240	Y	Y	4	Low	-	0	S	-	0	S	A	0	S	A	0	S	Y					N	N	N	0	N	0	
DAY	DY			N	INT	N	1	240	Y	Y	4	Low	T	0	S	T	0	S	A	0	S	A	0	S	Y					N	N	N	0	N	0	
EXIT	EX			N	INT	N	1	240	Y	Y	4	Low	-	0	S	-	0	S	A	0	S	A	0	S	Y	1-16	1			N	N	N		N	0	
FIRE	FI		0	N	INT	N	1	240	Y	Y	4	Low							A	0	S	A	0	S	N			N	+	N	N	N				
PANIC	PN			N	INT	N	1	240	Y	Y	4	Low							A	0	S	A	0	S	N			N	+	N	N	N				
EMERGENCY	EM			N	INT	N	1	240	Y	Y	4	Low							A	0	S	A	0	S	N					N	N	N				
SUPERVISORY	SV		0	N	INT	N	1	240	Y	Y	4	Low							A	0	S	A	0	S	N			N	+	N	N	N				
AUXILIARY 1	A1			N	INT	N	1	240	Y	Y	4	Low	T	0	S	A	0	S	A	0	S	A	0	S	N			N	+	N	N	N	0	N	0	
AUXILIARY 2	A2			N	INT	N	1	240	Y	Y	4	Low	T	0	S	A	0	S	A	0	S	A	0	S	N			N	+	N	N	N	0	N	0	
FIRE VERIFY	FV		0	N	INT	N	1	240	Y	Y	4	Low				A	0		A	0	S	A	0	S	N					N		N				
ARMING	AR			N	INT	N	1	240	Y	Y	4	Low				A	0																			TGL

*Output Options: 1 to 6, 450 to 474, 480 to 499, 500 to 999, D1 to D16, F1 to F20, G1 to G20. +=Set retard to YES before selecting presignal. ▪=Zone functions not available.

22.13 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.
ENTER 2ND CODE	The area you are attempting to disarm or access is a Two Man Area.	A second and different user code must be entered.
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 AC is low or missing.	Check that all AC connections are good.
BATTERY TROUBLE	The System 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 RESET 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 RESET 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 DOOR, KEYPAD or FIRE in Device Setup during programming.	Program the device as DOOR, KEYPAD or FIRE in Device Setup.
ENTER CODE (to enter 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.	

22.14 Area Account Number Messages

XR150/XR550 systems send an area account number instead of the system account number with the following panel messages/events based on the area assigned to the zone that initiated the alarm:

- WARNING: Alarm Bell Silenced (S34)
- Abort Signal Received (S45)
- Cancel Signal Received (S49)
- ALERT: System Recently Armed (S78)
- ALERT: Exit Error (S80)
- ALARM: Verify Signal Received (S96) (not currently sent on area arming systems)

The panel has always sent the area account number for the following messages:

- Zone event messages for all non-24 hour zones assigned to an area
- Arming
- Disarming

The panel sends the following messages using the area account number based on the lowest area number in Display Areas programming from the keypad being used:

- User Code Add/Change/Delete
- Door Access/Denied
- User 1 Ambush and Early Morning Ambush
- System Test Begin/End
- Unauthorized Entry
- Service Code and Service Request

The panel sends the following messages using the area account number based on the area number:

- Late to Arm for area schedules

Certifications

California State Fire Marshal (CSFM)

FCC Part 15

FCC Part 68 Registration ID CCKAL00BXR550

New York City (FDNY COA #6167)

NIST AES Algorithm Certificate #2350 128-bit

NIST AES Algorithm Certificate #2595 256-bit

SIA

Meets ANSI/SIA CP-01-2010 False Alarm Reduction

ANSI/UL 294	Access Control System Units
ANSI/UL 1023	Household Burglar
ANSI/UL 1076	Proprietary Burglar
ANSI/UL 1610	Central Station Burglar
ANSI/UL 1635	Digital Burglar
ANSI/UL 985	Household Fire Warning
ANSI/UL 864	Fire Protective Signaling 9th Edition
	Compatible with Devices listed for
ANSI/UL 268	Smoke-Automatic Fire Detectors
ANSI/UL 346	Waterflow Indicators for Fire Protective Signaling Systems
ANSI/UL 636	Holdup Alarm Units and Systems Accessory
	UL Bank, Safe, and Vault

UL Standard Line Security

UL Encrypted Standard Line Security

Export Control

The XR550 with encryption uses AES encryption and any export beyond the United States must be in accordance with Export Administration Regulations.

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Designed, Engineered and Manufactured in Springfield, Missouri

INTRUSION • FIRE • ACCESS • NETWORKS

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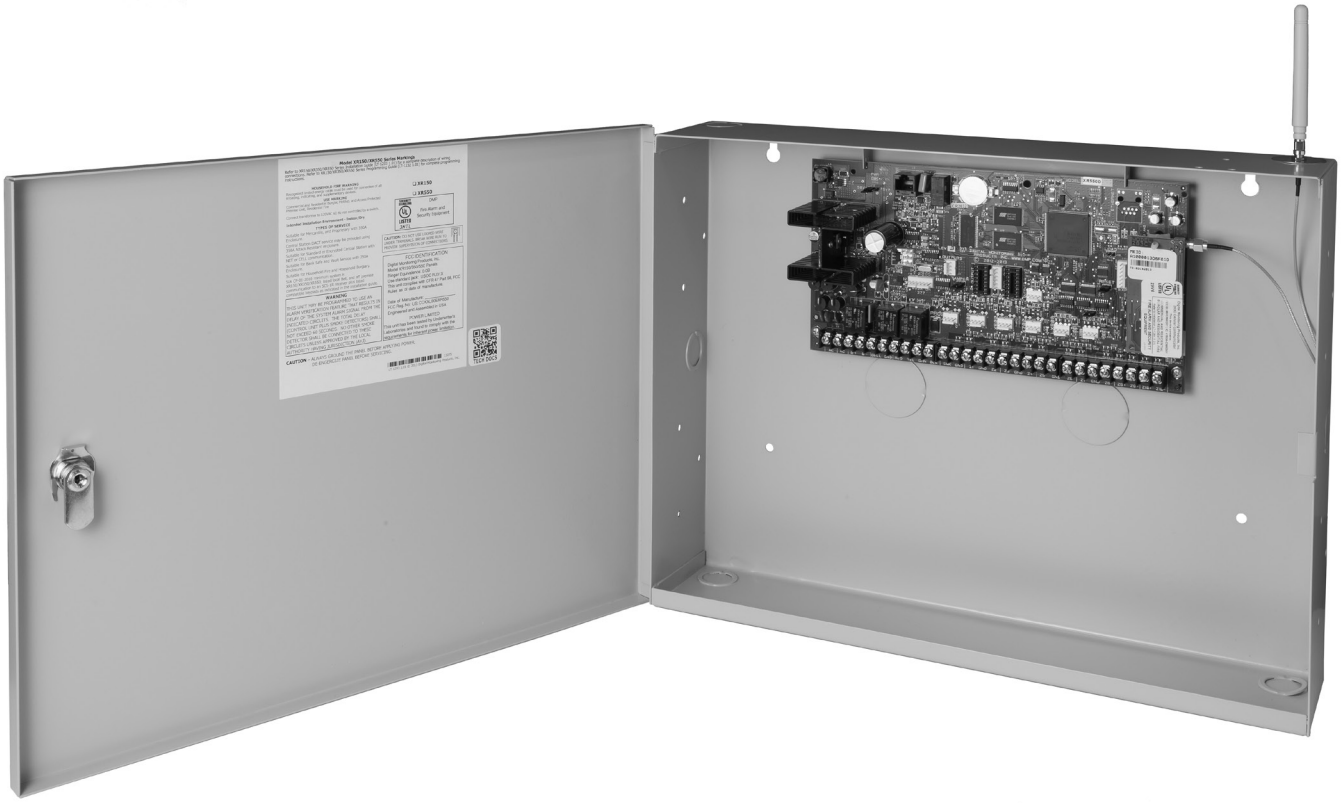
INSTALLATION GUIDE



XR150/XR550 SERIES
CONTROL PANEL

MODEL XR150/XR550 SERIES
INSTALLATION GUIDE

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 compute 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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Information furnished by DMP is believed to be accurate and reliable.
This information is subject to change without notice.

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Product Specifications Summary

1.1 Power Supply

Transformer Input: Model 327, plug-in — Primary input: 120 Vac, 60 Hz, Secondary output: 16.5 Vac 50 VA
Model 322/323, wire-in — Primary input: 120 Vac, 60 Hz, Secondary output: 16 Vac 56 VA
Model 324/324P, wire-in — Primary input: 120 Vac, 60 Hz, Secondary output: 16 Vac 100 VA

Standby Battery: 12 Vdc, 1.0 Amps Max. charging current
Models 364, 365, 366, 368, or 369
Replace every 3 to 5 years

Auxiliary *: 12 Vdc output at 1.5 Amp Max
12 Vdc output at 325mA used with two Model 364 batteries in the Model 341 enclosure

Bell Output *: 12 Vdc at 1.5 Amp Max

All circuits are inherent Power Limited except the red battery wire and AC terminal.
*** See section 5.3 50VA-75VA 3-Pin Header for Transformer Types for panel output 2 Amp or 3 Amp current limitations.**

1.2 Communication

- Built-in network communication to DMP Model SCS-1R Receivers (Panels with Network/Encryption only)
- Built-in 128-bit or 256-bit encrypted communication to DMP Model SCS-1R Receivers (XR550 with Encryption only)
- Built-in Contact ID communication to DMP Model SCS-1R Receivers
- Optional 893A Dual Phone Line Module with phone line supervision
- Can operate as a local panel

Note: 256-bit encrypted messages to SCS-1R receiver only communicate when using SCS-104 Receiver Line Cards with Version 102 or higher software.

1.3 Panel Zones

- Eight 1k Ohm EOL burglary zones (zones 1 to 8)
- Two 3.3k Ohm EOL powered zone with reset (zones 9 and 10)

1.4 Keypad Bus

You can connect up to a total of 16 of the following supervised keypads and expansion modules to keypad bus:

- Alphanumeric keypads
- Four, Eight- and/or single-zone expansion modules
- Single-zone detectors
- Access control modules
- Wireless Keypads (maximum of 4)

1.5 LX500-LX900 Bus™

You can connect the following devices to the LX-Bus™ connections provided on the panel. See Accessory Devices section 3.3.

- Four, eight, sixteen- and/or single-zone expansion modules
- Single-zone detectors
- Relay output expansion modules
- Graphic annunciator modules

1.6 Outputs

The XR150/XR550 Series provide two Single Pole, Double Throw (SPDT) relay outputs which require the installation of two Model 305 relays, each rated 1 Amp at 30 Vdc resistive (power limited sources only). A Model 431 Output Harness is required to use these outputs.

The XR150/XR550 Series panels also provide four open collector outputs rated for 50mA each. The open collector outputs provide ground connection for a positive voltage source. A Model 300 Output Harness is required to use these outputs.

1.7 Enclosure Specifications

The XR150/XR550 Series panels are shipped in an enclosure with a transformer, End-of-Line resistors, battery leads, user's guide, and programming sheets.

Enclosure Model	Size	Color(s)	Construction (Cold Rolled Steel)
350	17.5"W x 13.5"H x 3.5"D	Gray (G) or Red (R)	18-Gauge
350A	17.5"W x 13.5"H x 3.75"D	Gray (G)	18-Gauge with 16-Gauge door
341	13.22"W x 7.0"H x 3.5"D	Gray (G)	20-Gauge
349	12.5"W x 11.5"H x 3.5"D	Gray (G)	20-Gauge
352X	14.5"W x 32.0"H x 4.0"D	Gray (G)	16-Gauge

Panel Features

2.1 Description

The DMP XR150/XR550 Series system is made up of an alarm panel with a built-in communicator, an enclosure, battery, one transformer, and keypads. Each panel is a versatile 12 Vdc, combined access control, burglary, and fire communicator panel with battery backup. The panels provide eight on-board burglary zones and two on-board 12 Vdc Class B powered zones. The powered zones have a reset capability to provide for 2-wire smoke detectors, relays, or other latching devices. Combined current requirements of additional modules may require an auxiliary power supply. Refer to the Power Requirements section in this guide when calculating power requirements.
The panels can communicate to DMP SCS-1R Receivers using digital dialer, cellular, network, or Contact ID communication. Panels using cellular, network, or encrypted communication can also communicate to DMP SCS-VR Receivers.

2.2 Zone Expansion

Each panel provides multiple options for zone expansion:

- 10 on-board zones
- Up to 64 programmable keypad zones
- Up to 500 LX-Bus zones

Using DMP LCD keypad remote zone capability and zone expansion modules, additional zones are available on each panel:

- XR550 provides up to 574 additional zones
- XR150 provides up to 142 additional zones

The panel keypad data bus supports up to 16 supervised device addresses with each address supporting up to four programmable expansion zones (64 total).

Using the on board LX-Bus connections, and any combination of single, four, eight, or sixteen-zone expansion modules and single-zone LX-Bus detectors, additional zones are available on each panel:

- XR550 provides up to 500 additional zones (LX500-LX900)
- XR150 provides up to 100 additional zones (LX500)

Note: Do not use shielded or twisted pair wiring for LX-Bus or Keypad Bus circuits.

2.3 Output Expansion

In addition to the two SPDT relays and four programmable open collector outputs on the XR150/XR550 Series, you can also connect up to 25 programmable Model 716 Output Expansion Modules to each LX-Bus. These modules can provide an additional 500 or 100 programmable SPDT relays.

The panels provide Output Schedules for programming the 716 to perform a variety of annunciation and control functions. Also assign the 716 outputs to any panel Output Options such as Fire Alarm, Communication Fail, or Phone Trouble Outputs. Refer to the 716 Installation Guide (LT-0183).

The LX-Bus also supports the Model 717 Graphic Annunciator Module. Each 717 module supplies 20 switched ground outputs that follow the state of their assigned zones.

Note: The 717 supports the first eight Keypad Bus addresses. To follow Keypad Bus addresses nine through 16, install multiple 716 modules. Refer to the 717 Installation Guide (LT-0235) and 716 Installation Guide (LT-0183).

2.4 Central Station Communication

You can program the panel for reporting to DMP SCS-VR or SCS-1R Receivers using digital dialer, cellular, network, or Contact ID communication. The panels connect at the premises to a standard RJ31X or RJ38X telephone jack. Use the DMP 893A Dual Phone Line Module when connecting the panel to two separate phone lines in fire or burglary applications.

2.5 Encrypted Communications (XR550 with Network & Encryption Only)

An XR550 panel can communicate using AES encryption. If you currently have an XR550 panel with network capability, you may contact DMP Customer Service with the panel serial number. The serial number(s) should be sent in writing via e-mail or fax. A separate feature key is sent for each panel to activate encrypted communications using the Feature Upgrade process. Encrypted communication cannot be enabled on a XR550 panel without network communication capabilities. For more information on the Feature Upgrade process see the XR150/XR550 Series Programming Guide (LT-1232).

Note: 256-bit encrypted messages to SCS-1R receiver only communicate when using SCS-104 Receiver Line Cards with Version 102 or higher software.

2.6 Caution Notes

Throughout this guide you will see caution notes containing information you need to know when installing the panel. These cautions are indicated with a yield sign. Whenever you see a caution note, make sure you completely read and understand its information. Failing to follow the caution note can cause damage to the equipment or improper operation of one or more components in the system. See the example shown below.

Always ground the panel before applying power to any devices: The panel must be properly grounded before connecting any devices or applying power to the panel. Proper grounding protects against Electrostatic Discharge (ESD) that can damage system components.

2.7 Compliance Instructions

For applications that must conform to a local authorities installation standard or a National Recognized Testing Laboratory certificated system, please see the Compliance Listing Guide LT-1330 for additional instructions.

System Components

3.1 Wiring Diagram

The XR150/XR550 Series diagram below shows some of the accessory modules you can connect for use in various applications. A brief description of each module follows in section 3.3.

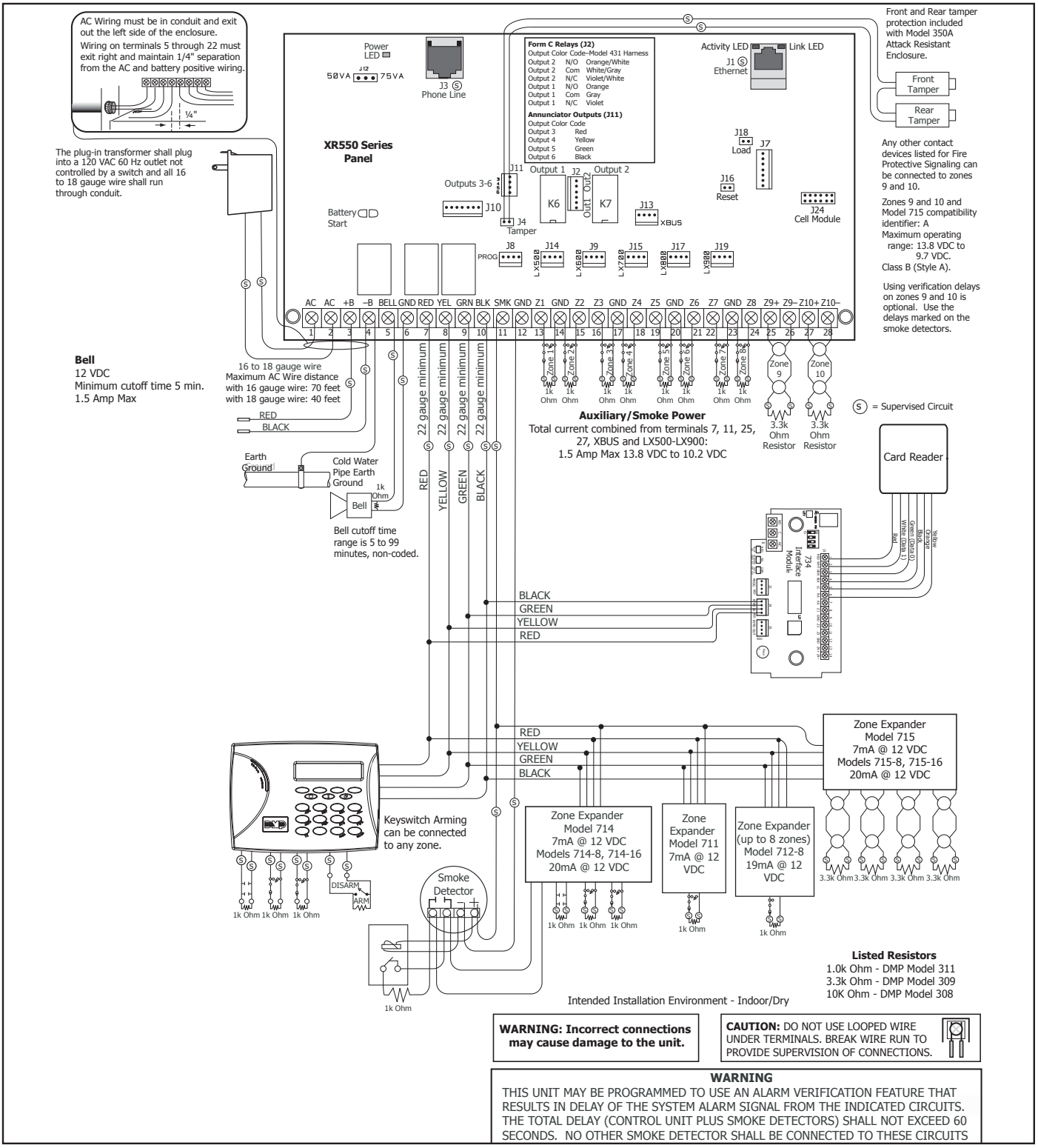

Figure 1: XR550 Series Wiring Diagram

3.2 Lightning Protection

Metal Oxide Varistors and Transient Voltage Suppressors help protect against voltage surges on panel input and output circuits. Additional surge protection is available by installing the DMP 370 or 370RJ Lightning Suppressors or Model 270 Network Transient Suppression Module.

3.3 Accessory Devices

Cellular Communicator Cards	
263C CDMA Cellular Communicator	Allows you to connect the XR150/XR550 Series to any compatible CDMA/SMS network.
263H HSPA+ Cellular Communicator	Allows you to connect the XR150/XR550 Series to any compatible HSPA/SMS network.
Accessory Modules	
270 Network Transient Suppression Module	Provides transient surge protection for the ETHERNET Connector.
277 Trouble Sounder	Provides local sounder for monitoring of panel operations and loss of Keypad Bus.
370/370RJ Lightning Suppressor	Provides protection against voltage surges on panel input and output circuits.
893A Dual Phone Line Module	Allows you to supervise two standard phone lines connected to an XR150/XR550 Series panel. The 893A module monitors the main and backup phone lines for a sustained voltage drop and alerts users when the phone line is bad.
Expansion Modules	
710 Bus Splitter/Repeater	Allows you to increase keypad or LX-Bus wiring distance to 2500 feet.
711 Single Point Zone Expanders	Provides one Class B zone for connecting burglary devices.
714, 714-8, 714-16 Zone Expanders	Provides Class B zones for connecting burglary and non-powered fire devices.
712-8 Zone Expander	Provides Class B zones for connecting burglary devices.
715, 715-8, 715-16 Zone Expanders	Provides 12 Vdc Class B powered zones for connecting smoke detectors, glassbreak detectors, and other 2- or 4-wire devices.
716 Output Expander	Provides four Form C relays (SPDT) and four switched grounds (open collector) for use in a variety of remote annunciation and control applications for use on the LX-Bus only.
717 Graphic Annunciator Module	Provides 20 zone following annunciator outputs (open collector) for use in a variety of remote annunciation and control applications for use on the LX-Bus only.
734, 734N, 734N-WIFI Wiegand Interface Modules	Provides system codeless entry, and arming and disarming using access control readers.
Wi-Fi™ Module	
763 Module	Allows you to add Wi-Fi alarm signal communication to XR150 Series with Version 112 or higher firmware and Level F hardware and XR550 Series panels with Version 112 or higher firmware.
DMP Two-Way Wireless Devices	
1100X/1100XH Receiver	Supports up to 500/100 devices in residential or commercial wireless operation.
1100R Repeater	Provides additional range for wireless devices.
1101 Universal Transmitter	Provides both internal and external contacts that may be used at the same time to yield two individual reporting zones from one wireless transmitter.
1102 Universal Transmitter	Provides an external contact.
1103 Universal Transmitter	Provides both internal and external contacts that may be used at the same time to yield two individual reporting zones from one wireless transmitter. Requires EOL resistor for external contact. Provides Disarm/Disable functionality.
1106 Universal Transmitter	Provides both internal and external contacts that may be used at the same time to yield two individual reporting zones from one wireless transmitter.
1107 Micro Window Transmitter	Provides a wireless window transmitter.
1114 Four-Zone Expander	Provides four wireless zones.
1116 Relay Output	Provides one Form C relay.
1117 LED Annunciator	Provides a visual system status indicator.
1118 Remote Indicator Light	Provides a visual indication of a Panic situation.
1119 Door Sounder	Provides a battery powered sounder.
1121 PIR Motion Detector	Provides motion detection with pet immunity.
1126R Motion Detector	Ceiling mount motion detector with panel programmable sensitivity and Disarm/Disable functionality.
1127C/1127W PIR Motion Detector	Wall mount motion detector with panel programmable sensitivity and Disarm/Disable functionality.
1129 Glassbreak Detector	Detects the shattering of framed glass mounted in an outside wall and provides full-pattern coverage and false-alarm immunity.
1131 Recessed Contact	Provides a recessed contact option for door or window applications.
1135/1135DB Wireless Siren	Provides a wireless siren.
1137 Wireless LED Emergency Light	Provides path lighting in the event of an alarm or trouble such as Burglary Alarm Output or can be activated simultaneously by the panel via the Trip with Panel Bell feature.
1139 Bill Trap	Provides a silent alarm option for retail and banking cash drawers.
1141 Wall Button*	One button wall mounted wireless transmitter.

1142BC Two-button Panic Belt Clip Transmitter	Provides portable two-button panic operation.
1142 Two-button Panic Transmitter	Provides permanently mounted under-the-counter two-button panic operation.
1144-4 (Four-Button) 1144-2 (Two-Button) 1144-2-P (Two-Button with Prox) 1144-D (Two Button Panic) 1144-1 (One-Button) 1144-1-P (One-Button with Prox)	1144 Series Key Fob transmitters designed to clip onto a key ring or lanyard.
1148 Personal Pendant*	A one-button, wireless emergency transmitter designed to be worn as a wristband or on a break-away lanyard. The 1148 may be used to activate an event at the receiver.
1161 Residential Smoke Detector	Residential smoke detector with sounder.
1162 Residential Smoke/Heat Detector	Residential smoke/heat detector with sounder and fixed rate-of-rise heat detector.
1164 Wireless Synchronized Smoke Detector	Commercial or residential, battery powered, wireless, low profile, photoelectric smoke detector, with synchronizing sounder.
1183-135F Heat Detector	Fixed temperature heat detector.
1183-135R Heat Detector	Fixed temperature and rate-of-rise heat detector.
1184 Carbon Monoxide Detector	Carbon monoxide detector.
Interface Modules	
736P Radionics™ Popit Interface	Allows a Radionics™ POPIT System to interface with DMP XR150/XR550 Series panels while maintaining Radionics™ wiring.
738A Ademco Interface	Allows Ademco™ 5881 wireless receivers to interface with DMP XR150/XR550 Series panels.
738I ITI Interface Module	Allows ITI™ SuperBus™ 2000 Series wireless receivers to interface with DMP XR150/XR550 Series panels.
738Z Z-Wave Interface Module	Provides connection for Z-Wave modules.
Indicating and Initiating Devices	
860 Relay Module	Provides dry relay contacts that are programmable and controlled from the DMP panel annunciator outputs. Includes one Form C (SPDT) relay rated 1 Amp @ 30 Vdc. Sockets are provided to allow the addition of three Model 305 plug-in relays. These relays can be used for electrical isolation between the alarm panel and another system or switching 5, 12, or 24 Volts to control various functions within a building or around its perimeter.
865 Supervised Style W or X Notification Circuit Module	Provides supervised alarm current when using the XR150/XR550 Series panel bell output and up to 5 Amps at 12 or 24 Vdc when using a listed auxiliary power supply. The 865 can supervise 2-wire or 4-wire style circuits for opens and shorts with individual LED annunciation.
866 Style W Notification Circuit Module	Provides supervised alarm current using the XR150/XR550 Series panel bell output and up to 5 Amps at 12 or 24 Vdc when using a listed auxiliary power supply. The 866 can supervise 2-wire Style W circuits for opens and shorts.
867 Style W LX-Bus Notification Circuit Module	Provides supervised alarm current using the XR150/XR550 Series panel bell output and up to 5 Amps at 12 or 24 Vdc when using a listed auxiliary power supply. The 867 connects to the XR150/XR550 Series panel LX-Bus and provides one 2-wire Style W notification circuit for open and short conditions. Individual Bell Relay addresses Bell Ring styles.
869 Dual Class A Style D Initiating Module	Provides two Class A, Style D, 4-wire initiating zones for connecting waterflow switches and other non-powered fire and burglary devices.
Keypads	
LCD keypads	Allows you to control the panel from various remote locations. Connect up to sixteen Model 630F Remote Fire Command Center, Model 7060, 7063, 7070, 7073, 7160, 7163, 7170, 7173 Thinline™ keypads, or 7060A, 7063A, 7070A, 7073A Aqualite™ keypads to the keypad bus using terminals 7, 8, 9, and 10.
7800 Series Graphic Touchscreen keypads	Allows you to control the panel from various remote locations. Connect up to sixteen Model 7872 or 7873 Graphic Touchscreen keypads to the keypad bus using terminals 7, 8, 9, and 10.
9000 Series Wireless keypads	Allows you to control the panel from various remote locations. Connect up to four 9060/9063 Wireless Keypads.
9862 Wireless Graphic Touchscreen keypad	Allows you to control the panel from various remote locations. Associate up to four 9862 Wireless Graphic Touchscreen Keypads.
Addressable Smoke Detectors	
2W-BLX, 2WT-BLX	Single-zone, addressable conventional smoke, smoke/heat detectors that connect to the LX-Bus. Includes drift compensation.

Installation

4.1 Mounting the Enclosure

The metal enclosure for the XR150/XR550 Series must be mounted in a secure, dry place to protect the panel from damage due to tampering or the elements. It is not necessary to remove the panel PCB when installing the enclosure. Figure 2 shows the mounting hole locations for the Model 350/350A Enclosures. Figure 3 shows the Model 341 Kiosk Enclosure. Figure 4 shows the Model 352X panel cabinet and 352S shelf cabinet for multiple batteries.

The 350A Attack Resistant enclosure is factory shipped with one knockout on the top left of the enclosure. As needed, additional knockouts or antenna exits may be added at the time of installation. See Figure 2 for the positions on the enclosure that can be added. Each additional knockout must be filled with conduit.

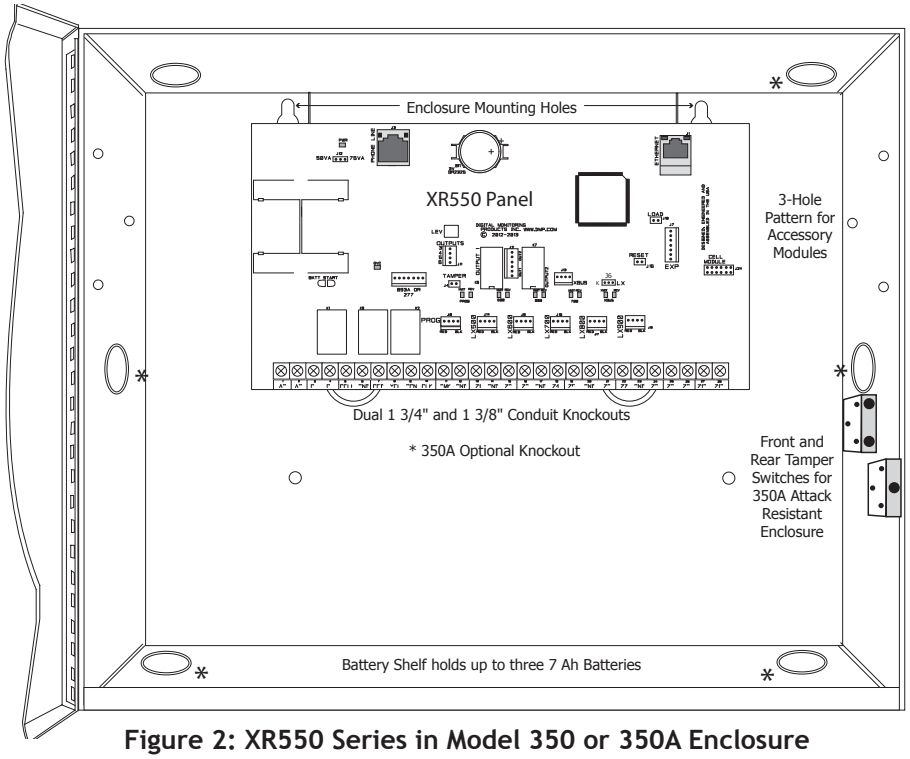

Figure 2: XR550 Series in Model 350 or 350A Enclosure

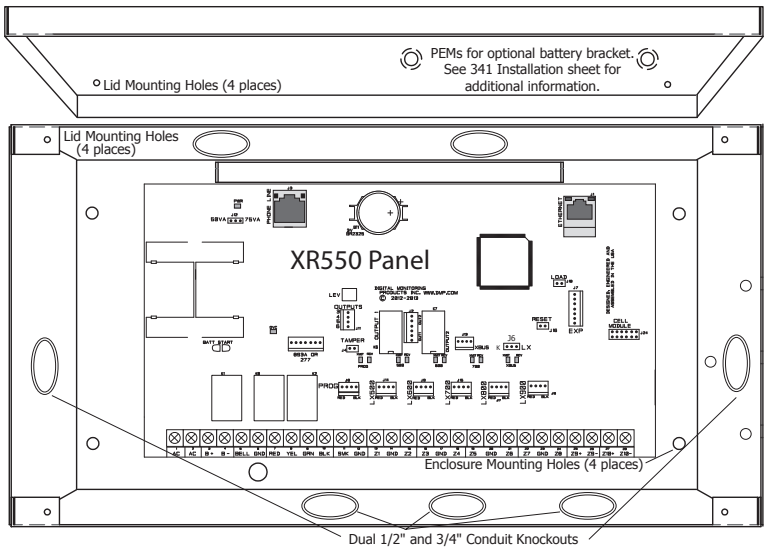

Figure 3: XR550 Series in Model 341 Enclosure

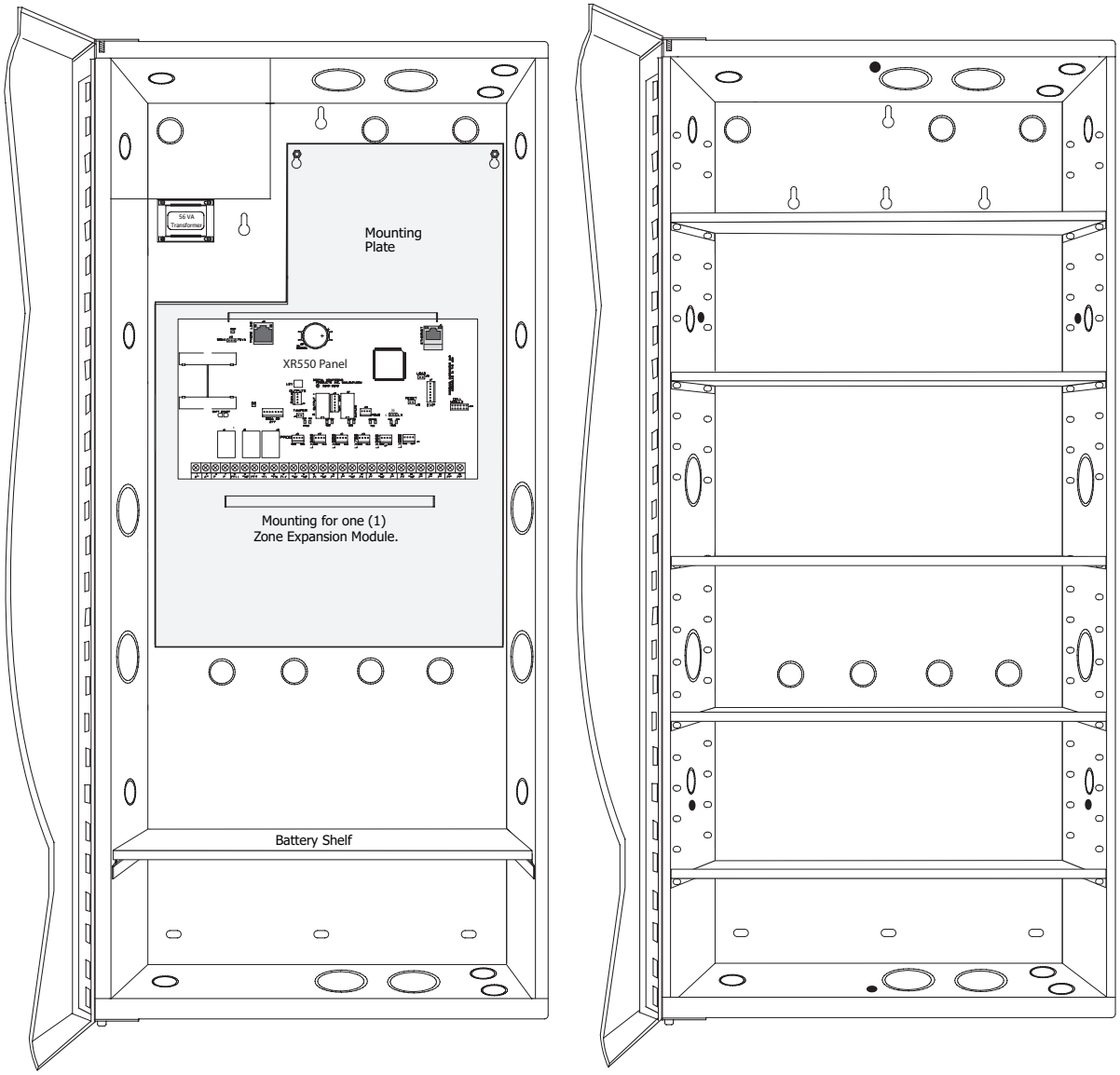

Figure 4: XR550 Series in Model 352X Enclosure and Separate 352S Enclosure with Shelves

4.2 Mounting Keypads and Zone Expansion Modules

DMP LCD keypads have removable covers that allow you to easily mount the keypad to a wall or other flat surface using the screw holes on each corner of the base. All DMP keypad housings are designed to easily install on any 4" square box, 3-gang switch box, DMP 695 and 696 backbox, or a flat surface.

The keypad housing is made up of two parts: the front, which contains the circuit board and keyboard components and the base. Use the following steps and figures to separate the keypad front and base.

1. Insert a flat screwdriver into one of the slots on the bottom of the keypad and gently lift the screwdriver handle toward you while pulling the halves apart. Repeat with the other slot.
2. Using your hands, gently separate the front from the base and set the front and components aside.
3. Before mounting the base, connect the keypad wire harness leads to the keypad cable from the panel and to any device wiring run to that location. Then attach the harness to the pin connector on the PC board, mount the base, and install the keypad cover making sure all of the keys extend through their respective holes.

The DMP 711, 712-8, 714, 715, 716, and 717 modules are each contained in molded plastic housings with removable covers. The base provides you with mounting holes for installing the unit to a wall, switch plate, or other surface.

4.3 Connecting LX-Bus™, AX-Bus™ and Keypad Bus Devices

Connections for LX-Bus/AX-Bus and Keypads are provided through the PROG, LX500, LX600, LX700, LX800, and LX900 4-pin headers and the keypad bus. Several factors determine the DMP LX-Bus/AX-Bus and keypad bus performance characteristics: the wire length and gauge used, the number of devices connected, and the voltage at each device. When planning an LX-Bus/AX-Bus and keypad bus installation, keep in mind the following information:

1. DMP recommends using 18 or 22-gauge **unshielded** wire for all LX-Bus/AX-Bus and keypad circuits. **Do not** use twisted pair or shielded wire for LX-Bus/AX-Bus and keypad bus data circuits.
2. On keypad bus circuits, to maintain auxiliary power integrity when using 22-gauge wire do not exceed 500 feet. When using 18-gauge wire do not exceed 1,000 feet. To increase the wire length or to add devices, install an additional power supply that is listed for Fire Protective Signaling, power limited, and regulated (12 Vdc nominal) with battery backup.

   Note: Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode. Refer to the Keypad Bus section for the specific number of supervised keypads allowed.
3. Maximum distance for any one bus circuit (length of wire) is 2,500 feet regardless of the wire gauge. This distance can be in the form of one long wire run or multiple branches with all wiring totaling no more than 2,500 feet. As wire distance from the panel increases, DC voltage on the wire decreases. Maximum number of LX-Bus/AX-Bus devices on the first 2,500 foot circuit is 40 devices.
4. Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2.0 Vdc. If the voltage at any device is less than the required level, add an auxiliary power supply at the end of the circuit. When voltage is too low, the devices cannot operate properly.

For additional information refer to the LX-Bus/AX-Bus/Keypad Bus Wiring Application Note (LT-2031).

4.4 Wireless Keypad Association

Enable Wireless Keypad Association operation on the keypad and panel.

To enable wireless keypad association operation on a LCD Wireless keypad (Models 9060 and 9063), press and hold the Back Arrow key and CMD until SET BRIGHTNESS displays. Enter the code 3577 (INST) and press CMD. Press KPD RF to start the RF survey communication. The keypad displays its wireless serial number and RF SURVEY.

To enable association operation on a Wireless Graphics Touchscreen keypad (Model 9862), access the Options menu through the carousel menu. While in the Options display, press the Installer Options icon. Enter the code 3577 (INST) and press CMD. Press KPD RF to start the RF survey communication. The keypad displays its wireless serial number and RF SURVEY.

The keypad Power/Armed LED turns Red, indicating communication has not yet been established with the panel receiver. When successful communication has been established, the Power/Armed LED turns Blue on Graphics keypads or Green on LCD keypads.

To enable wireless keypad association operation on the XR150/XR550 panel reset the panel three times allowing the keypad bus transmit light to begin flashing between each reset.

For 60 seconds the panel listens for wireless keypads that are in RF Survey mode and have not been programmed or associated into another panel. When the keypad associates with the panel the keypad logo LED turns from Red to Green.

Wireless keypads are assigned to the first open device position in Device Setup automatically based upon the order in which they are detected.

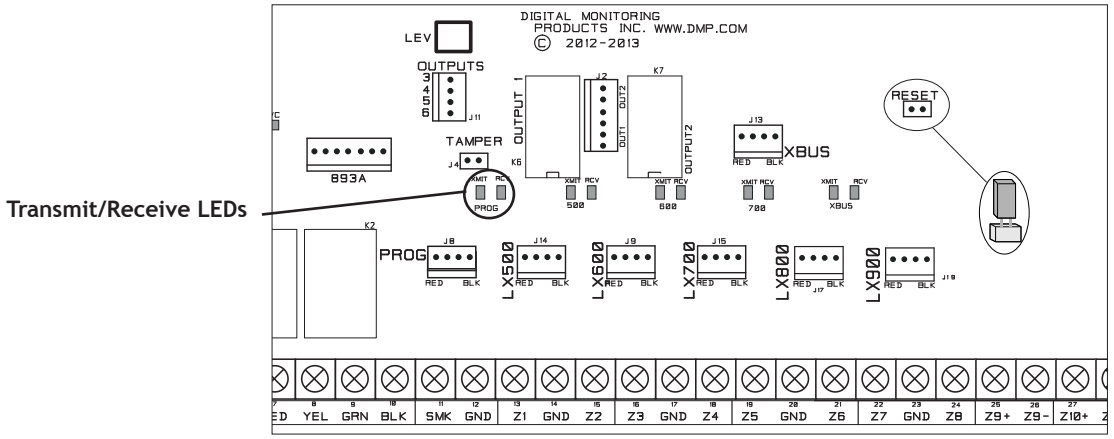

Figure 5: XR550 Series Panel Showing Reset and Transmit/Receive LEDs

Primary Power Supply

5.1 AC Terminals 1 and 2

Connect the transformer wires to terminals 1 and 2 on the panel. Use no more than 70 ft. of 16 gauge or 40 ft. of 18 gauge wire between the transformer and the panel.

Always ground the panel before applying power to any devices: The XR150/XR550 Series must be properly grounded before connecting any devices or applying power to the panel. Proper grounding protects against Electrostatic Discharge (ESD) that can damage system components. See the Earth ground section.

5.2 Transformer Types

Use Model 327 (16.5 Vac 50 VA) plug-in or Model 322/323 (16 Vac 56 VA), or 324/324P (16 Vac 100 VA) wire-in transformer. Use Model 322/323 or 324/324P wire-in transformers when required by the Authority Having Jurisdiction (AHJ).

The transformer must be connected to an unswitched 120 Vac 60 Hz electrical outlet with at least .87A of available current. ***Never share the transformer output with any other equipment***.

5.3 50VA-75VA 3-Pin Header for Transformer Types

Place the jumper on the left two pins labeled 50VA for a Maximum 2 Amp (Bell+Aux+Smoke+XBUS+LX500-LX900) when using the Model 322/323 56VA, or 327 50VA plug-in transformer (default).

Place the jumper on the right two pins labeled 75VA for a Maximum 3 Amp (Bell+Aux+Smoke+XBUS+LX500-LX900) when using the Model 324/324P 100 VA wire-in transformer.

Secondary Power Supply

6.1 Battery Terminals 3 and 4

Connect the black battery lead to the negative battery terminal. The negative terminal connects to the enclosure ground internally through the XR150/XR550 Series circuit board. Connect the red battery lead to the battery positive terminal. Observe polarity when connecting the battery.

You can add a second battery in parallel using the DMP Model 318 Dual Battery Harness.

DMP requires each battery be separated by a PTC in the battery harness wiring to protect each battery from a reversal or short within the circuit. See Figure 6.

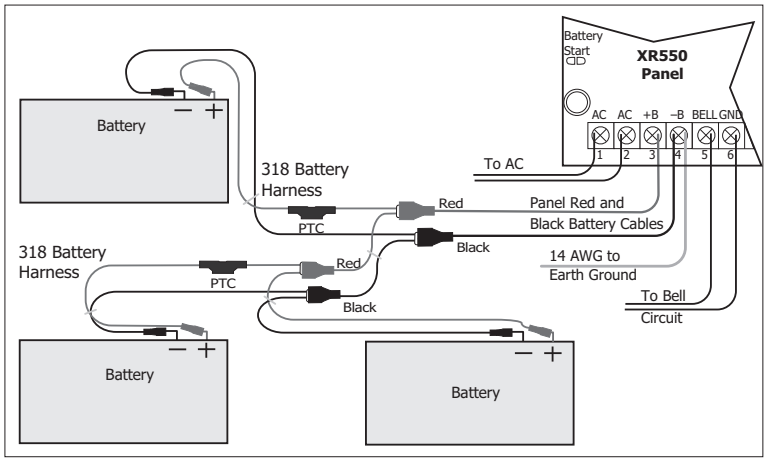

Figure 6: Wiring Multiple Batteries

Use sealed lead-acid batteries only: Use the DMP Model 364 (12 Vdc 1.3Ah), Model 365 (12 Vdc 9 Ah), Model 366 (12 Vdc 18 Ah), Model 368 (12 Vdc 5.0 Ah), or Model 369 (12 Vdc 7 Ah) sealed lead-acid rechargeable battery. Batteries supplied by DMP have been tested to ensure proper charging with DMP products.

GEL CELL BATTERIES CANNOT BE USED WITH THE XR150/XR550 SERIES PANEL.

6.2 Earth Ground (GND)

To provide proper transient suppression, XR150/XR550 Series panel terminal 4 must be connected to earth ground using 14 gauge or larger wire. DMP recommends connecting to a cold water pipe, ground rod, or building ground only. Do not connect to an electrical ground, conduit, sprinkler pipes, gas pipes, or a telephone company ground.

6.3 Battery Only Restart

When powering up the XR150/XR550 Series panel without AC power, briefly short across the battery start pads to pull in the battery cutoff relay. The leads need a momentary short only. Once the relay has pulled in, the battery voltage holds it in that condition. If the XR150/XR550 Series panel is powered up with an AC transformer, the battery cutoff relay is pulled in automatically. For more information refer to Figure 1.

6.4 Battery Replacement Period

DMP recommends replacing the battery every 3 to 5 years under normal use.

6.5 Discharge/Recharge

The XR150/XR550 Series battery charging circuit float charges at 13.8 Vdc at a maximum current of 1.0 Amps using a 50 VA or 56 VA transformer. Listed below are the various battery voltage level conditions:

Battery Trouble:	Below 11.9 Vdc
Battery Cutoff:	Below 10.2 Vdc
Battery Restored:	Above 12.6 Vdc

6.6 Battery Supervision

The XR150/XR550 Series tests the battery when AC power is present. The test is done every three minutes and lasts for five seconds. During the test, the panel places a load on the battery; if the battery voltage falls below 11.9 Vdc a low battery is detected. If AC power is not present, a low battery is detected any time the battery voltage falls below 11.9 Vdc.

If a low battery is detected with AC power present, the test repeats every two minutes until the battery charges above 12.6 Vdc indicating the battery has restored voltage. If a weak battery is replaced with a fully charged battery, the restored battery will not be detected until the next two minute test is completed.

6.7 Battery Cutoff

The panel disconnects the battery any time the battery voltage drops below 10.2 Vdc. This prevents battery deep discharge damage.

6.8 Power Requirements

During AC power failure, the XR150/XR550 Series panel and all connected auxiliary devices draw their power from the battery. All devices must be taken into consideration when calculating the battery standby capacity. The following table lists the XR150/XR550 Series panel power requirements. You must add the additional current draw of keypads, zone expansion modules, smoke detector output, and any other auxiliary devices used in the system for the total current required. The total is then multiplied by the number of standby hours required to calculate the total ampere-hours required.

Standby Battery Power Calculations	Standby Current	Alarm Current
XR150/XR550 Series Control Panel	Qty 1 x 174mA 174 mA	Qty 1 x 217mA 217 mA
Relay Outputs 1-2 (ON)	Qty _____ 30mA _____	Qty _____ 30mA _____
Switch Grounds 3-6 (ON)	Qty _____ 5mA _____	Qty _____ 5mA _____
Active Zones 1-8	Qty _____ 1.6mA _____	Qty _____ 2mA* _____
Active Zones 9-10	Qty _____ 4mA _____	Qty _____ 30mA _____
2-Wire Smoke Detectors	Qty _____ 0.1mA _____	Qty _____ 0.1mA _____
Panel Bell Output		1500mA _____mA
893A Dual Phone Line Module	Qty _____ x 12mA _____	Qty _____ x 50mA _____
263C CDMA Cellular Communicator Card	Qty _____ x 13mA _____	Qty _____ x 13mA _____
263H HSPA+ Cellular Communicator	Qty _____ x 24mA _____	Qty _____ x 28mA _____
277 Buzzer Module	Qty _____ x 5mA _____	Qty _____ x 5mA _____
1100X Wireless Receiver	Qty _____ x 46mA _____	Qty _____ x 46mA _____
1100XH Wireless High Power Receiver	Qty _____ x 160mA _____	Qty _____ x 160mA _____
860 Relay Output Module (one relay active)	Qty _____ x 34mA _____	Qty _____ x 34mA _____
All four relays active	138mA _____	138mA _____
865 Style Y or Z Notification Module	Qty _____ x 26mA _____	Qty _____ x 85mA _____
866 Style W Notification Module	Qty _____ x 45mA _____	Qty _____ x 76mA _____
867 LX-Bus Style W Notification Module	Qty _____ x 30mA _____	Qty _____ x 86mA _____
869 Dual Style D Initiating Module	Qty _____ x 25mA _____	Qty _____ x 75mA _____
630F Remote Fire Command Center	Qty _____ x 63mA _____	Qty _____ x 92mA _____
7060/7160 Thinline/7060A Aqualite Keypad	Qty _____ x 72mA _____	Qty _____ x 80mA _____
7063/7163 Thinline/7063A Aqualite Keypad	Qty _____ x 85mA _____	Qty _____ x 100mA _____
7070/7170 Thinline/7070A Aqualite Keypad	Qty _____ x 72mA _____	Qty _____ x 87mA _____
Active Zones (EOL Installed)	1.6mA _____	Qty _____ x 2mA* _____
7073/7173 Thinline/7073A Aqualite Keypad	Qty _____ x 85mA _____	Qty _____ x 100mA* _____
Active Zones (EOL Installed)	1.6mA _____	Qty _____ x 2mA _____
7760 Clear Touch Keypad	Qty _____ x 65mA _____	Qty _____ x 115mA _____
7872 Graphic Touchscreen Keypad	Qty _____ x 130mA _____	Qty _____ x 188mA _____
Active Zones (EOL Installed)	1.6mA _____	Qty _____ x 2mA* _____
7873 Graphic Touchscreen Keypad	Qty _____ x 130mA _____	Qty _____ x 188mA _____
Active Zones (EOL Installed)	1.6mA _____	Qty _____ x 2mA* _____
734 Wiegand Interface Module	Qty _____ x 15mA _____	Qty _____ x 15mA _____
Active Zones (EOL Installed)	Qty _____ x 1.6mA _____	Qty _____ x 2mA* _____
Annunciator (ON)		Qty _____ x 20mA _____
734N Wiegand Interface Module	Qty _____ x 146mA _____	Qty _____ x 148mA _____
Active Zones (EOL Installed)	Qty _____ x 1.6mA _____	Qty _____ x 2mA* _____
Annunciator (ON)		Qty _____ x 20mA _____
Wiegand Reader	Qty _____ x 200mA _____	Qty _____ x 200mA _____
734N-WiFi Wiegand Interface Module	Qty _____ x 146mA _____	Qty _____ x 148mA _____
Active Zones (EOL Installed)	Qty _____ x 1.6mA _____	Qty _____ x 2mA* _____
Annunciator (ON)		Qty _____ x 20mA _____
Wiegand Reader	Qty _____ x 200mA _____	Qty _____ x 200mA _____
Copy Sub-Totals to next page	Sub-Total Standby _____mA	Sub-Total Alarm _____mA

*Based on 10% of active zones in alarm.

Standby Battery Power Calculations	Standby Current	Alarm Current
736P POPIT Interface Module Radionics Popex, POPITs, OctoPOPITs	Qty _____ x 25mA _____ Qty _____ x ___mA _____	Qty _____ x 25mA _____ Qty _____ x ___mA _____
738A Ademco Wireless Interface Module	Qty _____ x 75mA _____	Qty _____ x 75mA _____
738Z Z-Wave Interface Module	Qty _____ x 35mA _____	Qty _____ x 35mA _____
763 Wi-Fi Module	Qty _____ x 31mA _____	Qty _____ x 31mA _____
710 Bus Splitter/Repeater Module	Qty _____ x 32mA _____	Qty _____ x 32mA _____
711 Zone Expansion Module Active Zone (EOL Installed)	Qty _____ x 11mA _____ Qty _____ x 1.6mA _____	Qty _____ x 11mA _____ Qty _____ x 2mA* _____
714 Zone Expansion Module Active Zones (EOL Installed)	Qty _____ x 7mA _____ Qty _____ x 1.6mA _____	Qty _____ x 7mA _____ Qty _____ x 2mA* _____
712-8 Zone Expansion Module Active Zones (EOL Installed)	Qty _____ x 17mA _____ Qty _____ x 1.6mA _____	Qty _____ x 17mA _____ Qty _____ x 2mA* _____
714-8, 714-16 Zone Expansion Module Active Zones (EOL Installed)	Qty _____ x 20mA _____ Qty _____ x 1.6mA _____	Qty _____ x 20mA _____ Qty _____ x 2mA* _____
715 Zone Expansion Module Active Zones (EOL Installed) 2-Wire Smokes	Qty _____ x 7mA _____ Qty _____ x 4mA _____ Qty _____ x .1mA _____	Qty _____ x 7mA _____ Qty _____ x 30mA* _____ Qty _____ x .1mA _____
715-8, 715-16 Zone Expansion Modules Active Zones (EOL Installed) 2-Wire Smokes	Qty _____ x 20mA _____ Qty _____ x 4mA _____ Qty _____ x .1mA _____	Qty _____ x 20mA _____ Qty _____ x 30mA* _____ Qty _____ x .1mA _____
716 Output Expansion Module Active Form C Relays	Qty _____ x 13mA _____	Qty _____ x 13mA _____ Qty _____ x 12mA _____
717 Graphic Annunciator Module Annunciator Outputs	Qty _____ x 10mA _____	Qty _____ x 10mA _____ Qty _____ x 1mA _____
2W-BLX, 2WT-BLX Smoke Detectors	Qty _____ x 11mA _____	Qty _____ x 31mA* _____
COSMOD2W Module	Qty _____ x 45mA _____	Qty _____ x 174mA*# _____
COSMO-2W Smoke and CO Detectors	Qty _____ x 1mA _____	Qty _____ x 50mA*# _____
572 Indicator LED	Qty _____ x 20mA _____	Qty _____ x 20mA _____
Aux. Powered Devices on Terminals 7 and 11 Other than Keypads and LX-Bus Modules	_____mA	_____mA
Sub-Totals this page	Sub-Total Standby _____mA	Sub-Total Alarm _____mA
Sub-Totals from previous page	Sub-Total Standby _____mA	Sub-Total Alarm _____mA
*Based on 10% of active zones in alarm	Total Standby _____mA	Total Alarm _____mA
# For systems that are not central station monitored, multiply alarm current by 12.		

Total Standby _____mA x number of Standby Hours needed _____ = _____mA-hours
Total Alarm _____mA +_____mA-hours
Total _____mA-hours
X .001
= _____Amp-hrs Required

Refer to section 6.9 for standby battery selection.

6.9 Standby Battery Selection

To choose the type and number of batteries needed for 24, 60, or 72 hours of standby power based on the Amp Hours Required calculation from section 6.8 XR150/XR550 Series Power Requirements, perform the following:

1. Select the desired standby hours required from the table below: 24, 60, or 72 hours
2. Select the desired battery size: Model 368 (12 Vdc 5.0 Ah), Model 369 (12 Vdc 7 Ah), Model 365 (12 Vdc 9 Ah), Model 366 (12 Vdc 18 Ah), or Model 364 (12 Vdc 1.3 Ah) when used in the Model 341 enclosure.
3. Select a Max. Ah Available number that is just greater than the number calculated in Amp Hours Required.
4. Install the number of batteries shown in the corresponding No. of Batteries required column.

Example: If the Amp Hours Required calculation equals 22 Ah for 24 hours of standby time and 5.0 Ah batteries are desired, install six (6) Model 368 (12 Vdc, 5.0 Ah) batteries.

Note: You can use either a Model 327 Plug-in 50 VA or Model 322/323 Wire-in 56 VA with up to 36 Ah of batteries. The Model 324/324P Wire-in 100 VA Transformer may be used with any of the battery choices listed below.

For listed installations, batteries can be installed in a DMP Model 349, 350 or 352S enclosure and all wiring shall run through conduit. The enclosure shall be installed to the left of the XR150/XR550 Series enclosure to ensure Battery and AC wire separation.

24 hours of standby power

5.0 Ah Batteries	
Max. Ah Available	No. of Batteries
8	2
12	3
16	4
20	5
24	6
28	7
32	8
36	9
40	10

7 Ah Batteries	
Max. Ah Available	No. of Batteries
6	1
12	2
18	3
24	4
31	5
37	6
43	7

7.7 Ah Batteries	
Max. Ah Available	No. of Batteries
6	1
13	2
20	3
27	4
34	5
41	6

9 Ah Batteries	
Max. Ah Available	No. of Batteries
8	1
16	2
24	3
32	4
40	5

18 Ah Batteries	
Max. Ah Available	No. of Batteries
16	1
32	2
48	3

Note: 48 hours is the typical battery recharge time for any of the Number of Batteries shown in this section.

60 hours of standby power

7 Ah Batteries	
Max. Ah Available	No. of Batteries
13	2
20	3
27	4
33	5
40	6
47	7
54	8
60	9
67	10

7.7 Ah Batteries	
Max. Ah Available	No. of Batteries
14	2
22	3
29	4
37	5
44	6
52	7
59	8
67	9

9 Ah Batteries	
Max. Ah Available	No. of Batteries
17	2
26	3
34	4
43	5
52	6
61	7
69	8

18 Ah Batteries	
Max. Ah Available	No. of Batteries
17	1
34	2
52	3
69	4

Note: 48 hours is the typical battery recharge time for any of the Number of Batteries shown in this section.

72 hours of standby power

9 Ah Batteries	
Max. Ah Available	No. of Batteries
16	2
25	3
33	4
42	5
50	6
59	7
67	8

18 Ah Batteries	
Max. Ah Available	No. of Batteries
16	1
33	2
50	3
67	4

Note: 72 hours is the typical battery recharge time required for any of the Number of Batteries shown in this section.

Note: If the Amp Hours Required calculation is greater than any Max. Ah Available number shown on a table, then add power supply(s) to power some system devices allowing the Amp Hours Required calculation to be reduced. See the 710 Bus Splitter/Repeater Installation Guide (LT-0310).

Bell Output

7.1 Terminals 5 and 6

Terminal 5 supplies positive 12 Vdc to power alarm bells or horns. This output can be steady, pulsed, or temporal depending upon the Bell Action specified in Bell Options. Terminal 6 is the ground reference for the bell circuit. This supervised output detects 1k Ohms or less as normal. The indicating appliance can supply this resistance. If using a horn or siren, a 1k Ohm 1/2 W EOL resistor (provided) should be added across the bell circuit to provide supervision. See the Notification Appliance section for a list of approved notification appliances and the Wiring Diagrams for connections.

Keypad Bus

8.1 Description

XR150/XR550 Series panel terminals 7, 8, 9, and 10 are for the keypad bus. You can connect up to 16 supervised keypads to the XR550 Series and 8 supervised keypads to the XR150 Series as well as multiple unsupervised keypads. In addition to DMP LCD keypads, you can also connect any combination of zone expansion modules to the data bus up to a total of 16 devices.

Note: Do not use shielded wire for LX-Bus/Keypad Bus circuits.

8.2 Terminal 7 - RED

This terminal supplies positive 12 Vdc Regulated to power DMP LCD keypads and zone expansion modules. Terminal 7 also supplies power for any auxiliary device. The ground reference for terminal 7 is terminal 10.

The output current is shared with the smoke power output on terminal 11 and Zones 9 and 10. Current draw for all connected devices must not exceed the panel maximum current rating. See Power Supply in the Compliance section for maximum current in a fire listed application.

8.3 Terminal 8 - YELLOW

Terminal 8 receives data from keypads and zone expansion modules. It cannot be used for any other purpose.

8.4 Terminal 9 - GREEN

Terminal 9 transmits data to keypads and zone expansion modules. It cannot be used for any other purpose.

8.5 Terminal 10 - BLACK

Terminal 10 is the ground reference for DMP LCD keypads, zone expansion modules, and all auxiliary devices being powered by terminal 7.

8.6 Programming (PROG) Connection

A 4-pin header PROG is provided to connect a keypad when using a DMP Model 330 Programming Cable. This provides a quick and easy connection for panel programming.

You may also use the PROG Header to connect Keypad Bus devices. This is an alternative to connecting keypad bus devices to terminals 7, 8, 9, and 10.

Note: The programming keypad must be set to address 1.

8.7 Keypad Bus LEDs

The two LEDs, located above the PROG connector, indicate data transmission and receipt. The left LED flashes green to indicate the panel is transmitting keypad bus data. The right LED flashes yellow to indicate the panel is receiving keypad bus data. See Figure 5.

8.8 OVC LED(s)

The Overcurrent LED (OVC) lights Red when the devices connected to the Keypad Bus and LX-Bus(es) draw more current than the panel is rated for. The LED(s) turn a steady Red when lit. When the OVC LED(s) light Red, the appropriate LX-Bus(es) and Keypad bus are shut down.

- The OVC LED located to the left of the 893A connector indicates overcurrent for the Keypad Bus (Terminals 7-10 and PROG header), XBUS, and LX500-LX700.
- The OVC LED to the right of the CELL MODULE connector indicates overcurrent for LX800-LX900.

Smoke and Glassbreak Detector Output

9.1 Terminals 11 and 12

Terminal 11 supplies positive 12 Vdc Regulated to power 4-wire smoke detectors and other powered devices. This output can be turned off by the user for 5 seconds using the Sensor Reset User Menu option to allow latched devices to reset. Terminal 12 is the ground reference for terminal 11.

9.2 Current Rating

The Output current from terminal 11 is shared with terminals 7, 25, 27, and LX500-LX900.

The total current draw of all devices powered from the panel must be included with terminal 11 calculations and must not exceed the maximum output rating.

Protection Zones

10.1 Terminals 13–24

Zones 1 to 8 (terminals 13 to 24) on the XR150/XR550 Series panel are all grounded burglary zones. For programming purposes, the zone numbers are 1 through 8. Listed below are terminal 13 to 24 connection functions.

Terminal	Function	Terminal	Function
13	Zone 1 voltage sensing	19	Zone 5 voltage sensing
14	Ground for Zones 1 and 2	20	Ground for Zones 5 and 6
15	Zone 2 voltage sensing	21	Zone 6 voltage sensing
16	Zone 3 voltage sensing	22	Zone 7 voltage sensing
17	Ground for Zones 3 and 4	23	Ground for Zones 7 and 8
18	Zone 4 voltage sensing	24	Zone 8 voltage sensing

The voltage sensing terminal measures the voltage across a 1k Ohm End-of-Line resistor to ground. Use DMP Model 311 1k Ohm resistors. Dry contact sensing devices can be used in series (normally-closed) or in parallel (normally-open) with any of the burglary protection zones.

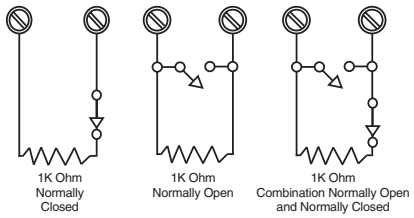

Figure 7: Protection Zone Wiring

10.2 Operational Parameters

Each protection zone detects three conditions: Open, Normal, and Short. Listed below are voltage and resistance parameters for each condition:

Condition	Resistance on zone	Voltage on positive terminal
Open	over 1300 ohms	over 2.0 Vdc
Normal	600 to 1300 ohms	1.2 to 2.0 Vdc
Short	under 600 ohms	under 1.2 Vdc

10.3 Zone Response Time

A condition must be present on a zone for 500 milliseconds before it is detected by the XR150/XR550 Series panel. Ensure detection devices used on the protection zones are rated for use with this delay. Zones 1-10 can also be programmed for a fast response delay of 160 milliseconds.

10.4 Keyswitch Arming Zone

Using a keyswitch on an Arming type zone allows you to arm and disarm selected areas without having to enter a user code.

Powered Zones for 2-Wire Smoke Detectors

11.1 Terminals 25–26 and 27–28

Panel terminals 25 through 28 provide two resettable Class B, Style A, 2-wire powered zones. For programming purposes the zone numbers are 9 and 10.

Note: The maximum wire length for either zone 9 or zone 10 is 3000 feet using 18 AWG or 1000 feet using 22 AWG. The maximum voltage is 13.8 Vdc and the maximum normal standby current is 1.25mA DC. The maximum line impedance is 100 Ohms. The maximum short circuit current is 56mA. When using zone expansion modules, use Model 309 EOL resistors. The compatibility identifier for the zones is A.

Note: Do not mix detectors from different manufacturers on the same zone.

Caution: Performing a Sensor Reset momentarily drops power to the devices on Zones 9 and 10. The panel views these zones (9 and 10) as "Open" while the power is absent.

Note: Refer to the Compliance Listing Guide LT-1330 for list of Compliance 2-wire smoke detectors.

Dry Contact Relay Outputs

12.1 Description

The XR150/XR550 Series panel provides two programmable auxiliary SPDT relays when equipped with two DMP Model 305 relays in sockets OUTPUT 1 and OUTPUT 2 and a Model 431 Output Harness on the OUT1-OUT2 6-pin Header. Each relay provides one SPDT set of contacts that can be operated by any of the functions listed below:

1. Activation by zone condition: Steady, Pulsing, Momentary, and Follow
2. Activation by 24-hour 7-day schedule: One on and one off time a day for each relay
3. Manual activation from the DMP LCD keypad menu
4. Communication failure
5. Armed area annunciation
6. Fire Alarm, Fire Trouble or Supervisory
7. Ambush Alarm
8. Exit and Entry timers
9. System Ready
10. Late to Close
11. Panic Alarm
12. Ready
13. Armed
14. Disarmed
15. Burglary
16. Phone Trouble
17. Device Fail
18. Sensor Reset
19. Closing Wait

Refer to the XR150/XR550 Series Programming Guide (LT-1232) for specific information.

12.2 Contact Rating

The Model 305 relay contacts are rated for 1 Amp at 30 Vdc (allows .35 power factor). Connect auxiliary power to the Relay Output 1 common terminal by installing the gray harness wire to terminal 7. Current draw for all connected devices must not exceed the panel maximum current rating.

12.3 Model 431 Output Harness Wiring

The relay contacts are accessible by installing the DMP 431 Output Harness on the 6-pin OUT1-OUT2 header. OUTPUT 2 uses the top three prongs, and OUTPUT 1 uses the bottom three prongs. The wire harness and contact locations are shown below:

Contact	Color
Output 1 normally closed	Violet
Output 1 common	Gray
Output 1 normally open	Orange
Output 2 normally closed	Violet with white stripe
Output 2 common	White with gray stripe
Output 2 normally open	Orange with white stripe

The relay contacts must be connected to devices located within the same room as the XR150/XR550 Series panel.

Annunciator Outputs

13.1 Description

The four programmable annunciator outputs can be programmed to indicate the activity of the panel zones or conditions occurring on the system. Annunciator **outputs do not provide a voltage but instead switch-to-ground** a voltage from another source. The outputs can respond to any of the conditions listed in the Description section for Dry Contact Relays. Maximum voltage is 30 Vdc @ 50mA.

13.2 Model 300 Harness Wiring

Access the open collector outputs by installing DMP 300 Harness on the 4-pin OUTPUTS header. The output locations are shown below. For listed applications, devices connected to the outputs must be located within the same room as the panel.

Output	Color	Wire	Output	Color	Wire
3	Red	1	5	Green	3
4	Yellow	2	6	Black	4

13.3 Model 860 Relay Module

Connect a Model 860 Relay Module to the OUTPUTS header on the XR150/XR550 Series panel to provide relays for outputs 3-6.

Use these relays for electrical isolation between the alarm panel and other systems or for switching voltage to control various functions. Power is supplied to the relay coils from a single wire connected to the panel auxiliary power terminal 7. The module includes one relay and provides three additional sockets for expansion of up to four relays. Mount the 860 inside the panel enclosure using the 3-hole pattern and plastic standoffs. Refer to the 860 Module Install Sheet (LT-0484) as needed.

Relay Contact Rating: 1 Amp at 30 Vdc (allows .35 power factor)

Wireless Bus Expansion

14.1 Description

The XBUS Wireless Bus header provides connection for the 1100X or 1100XH Wireless Receiver. The XBUS provides up to 500 wireless zones numbered 500-999. Refer to the 1100X Wireless Receiver Install Guide (LT-0708) or the 1100XH Wireless Receiver Install Guide (LT-0970) for complete information.

- XR550 provides up to 500 zones
- XR150 provides up to 100 zones

14.2 Wireless Bus LEDs

The two LEDs, located above the XBus header, indicate data transmission and receipt. The left LED flashes green to indicate the panel is transmitting data. The right LED flashes yellow to indicate the panel is receiving data.

LX-Bus™/AX-Bus™ Expansion

15.1 LX-Bus/AX-Bus Headers

XR Series control panels are capable of providing zone, output, and access control expansion by connecting hardware modules to the AX/LX-Bus headers on the control panel. XR150 panels are manufactured with one LX-Bus header labeled LX500. AX-Bus operation does not apply to XR150 panels. XR550 panels are manufactured with five AX/LX-Bus headers labeled LX500-LX900. Application determines if a header works in AX-Bus or LX-Bus operation.

LX-Bus (XR150/XR550)

LX-Bus operation is compatible with hardwired zone and output expanders. Each LX-Bus represents 100 addresses. An LX-Bus address provides one zone and one output of expansion.

- LX500, provides zones/outputs 500-599 (XR150, XR550).
- LX600, provides zones/outputs 600-699 (XR550 only).
- LX700, provides zones/outputs 700-799 (XR550 only).
- LX800, provides zones/outputs 800-899 (XR550 only).
- LX900, provides zones/outputs 900-999 (XR550 only).

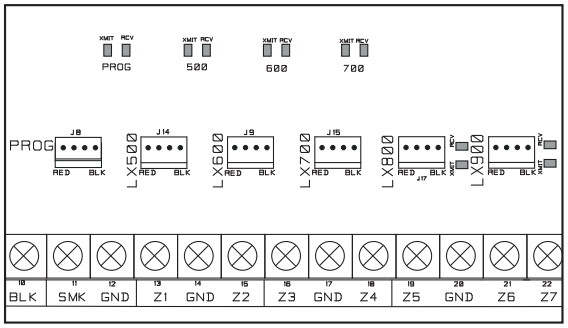

Figure 9: LX-Bus Headers and LEDs

AX-Bus (XR550 V111 or higher):

AX-Bus operation is compatible only with XR550 control panels and DMP Model 734 Wiegand Interface door access modules. The 734 provides one Form-C relay output and four expansion zones. AX-Bus operation is not compatible with addressable zone and output expanders. Each AX-Bus represents predetermined addresses for 734 operation: 16 addresses for 734 door relay outputs, and 64 addresses for 734 expansion zones.

AX-Bus Available Addresses and 734 Zone Numbers

734 Address	AX500		AX600		AX700		AX800		AX900	
	Door	Zones	Door	Zones	Door	Zones	Door	Zones	Door	Zones
1	501	501-504	601	601-604	701	701-704	801	801-804	901	901-904
2	505	505-508	605	605-608	705	705-708	805	805-808	905	905-908
3	509	509-512	609	609-612	709	709-712	809	809-812	909	909-512
4	513	513-516	613	613-616	713	713-716	813	813-816	913	913-916
5	517	517-520	617	617-620	717	717-720	817	817-820	917	917-920
6	521	521-524	621	621-624	721	721-724	821	821-824	921	921-924
7	525	525-528	625	625-628	725	725-728	825	825-828	925	925-928
8	529	529-532	629	629-632	729	729-732	829	829-832	929	929-932
9	533	533-536	633	633-636	733	733-736	833	833-836	933	933-936
10	537	537-540	637	637-640	737	737-740	837	837-840	937	937-940
11	541	541-544	641	641-644	741	741-744	841	841-844	941	941-944
12	545	545-548	645	645-648	745	745-748	845	845-848	945	945-948
13	549	549-552	649	649-652	749	749-752	849	849-852	949	949-952
14	553	553-556	653	653-656	753	753-756	853	853-856	953	953-956
15	557	557-560	657	657-660	757	757-760	857	857-860	957	957-960
16	561	561-564	661	661-664	761	761-764	861	861-864	961	961-964

15.2 Device Addressing

Addressable expanders and door controllers identify themselves to the control panel by their programmed address, which allows the panel to uniquely identify devices. An addressable device's address determines which numbers the zones, outputs and door controllers will be assigned in programming. Refer to the device's installation guide for addressing information.

15.3 LX-Bus/AX-Bus LEDs

The two LEDs, located above each LX-Bus/AX-Bus header, indicate data transmission and receipt. The left LED flashes green to indicate the panel is transmitting LX-Bus/AX-Bus data. The right LED flashes yellow to indicate the panel is receiving LX-Bus/AX-Bus data.

15.4 OVC LEDs

The Overcurrent LED (OVC) lights Red when the devices connected to the Keypad Bus and LX-Bus(es) draw more current than the panel is rated for. The LED(s) turn a steady Red when lit. When the OVC LED(s) light Red, the appropriate LX-Bus(es) and Keypad bus are shut down.

- The OVC LED located to the left of the 893A connector indicates overcurrent for the Keypad Bus (Terminals 7-10 and PROG header), XBUS, and LX500-LX700.
- The OVC LED to the right of the CELL MODULE connector indicates overcurrent for LX800-LX900.

ETHERNET Connector (Panels with Network/Encryption only)

16.1 Description

The ETHERNET Connector is available on the XR150/XR550 with network or encryption to connect directly to an Ethernet network using a standard patch cable. The ETHERNET Connector supports 100MB/s full duplex operation and the maximum impedance is 100 Ohms.

16.2 Ethernet LEDs

The two LEDs, located on the top edge of the ETHERNET Connector, indicate network connection. The right, Link LED lights up green to indicate a valid receive connection from the host network. The yellow LED lights when connected to a 100Mb network and is off when connected to a 10Mb network.

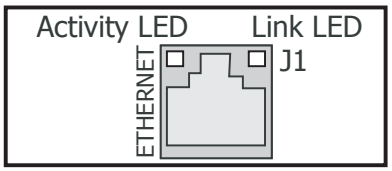

Figure 10: ETHERNET and LEDs

16.3 Network Transient Suppression

The Model 270 Transient Suppression Module provides surge suppression from the Ethernet network for the protection of DMP Panels. Refer to the Model 270 Installation Sheet (LT-1316) for complete information.

PHONE LINE RJ Connector

17.1 Description

Connect the panel to the public telephone network by installing a DMP 356 RJ Cable between the panel PHONE LINE connector and the RJ31X or RJ38X phone block. The maximum impedance is 100 Ohms. **CAUTION -** To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord, such as DMP Model 356 Series Phone Cords.

17.2 893A or 277 Connector

Connect an 893A Dual Phone Line Module or Model 277 Trouble Sounder to the 893A OR 277 connector on the panel. Refer to the 893A Installation Sheet (LT-0135) or 277 Installation Sheet (LT-1304) for complete information.

17.3 Notification

The user must not repair registered terminal equipment. In case of trouble, immediately unplug the device from the telephone jack. The factory warranty provides for repairs. Registered terminal equipment may not be used on party lines or in connection with coin telephones. Notify the telephone company with the following information:

a. The particular line(s) where the service is connected
b. The FCC registration number as listed in Section 17.5
c. The ringer equivalence
d. The device make, model, and serial number

17.4 Phone Line Monitor

The XR150/XR550 Series panel has a built-in telephone monitor that monitors the phone line voltage to verify the connection to the central office. Figure 11 and the table below identify the phone block pin layout, wire numbers, and colors.

Wire Number	Wire Color
1	Gray
2	Orange
3	Black
4	Red
5	Green
6	Yellow
7	Blue
8	Brown

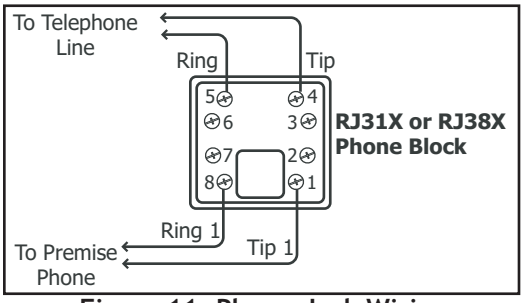

Figure 11: Phone Jack Wiring

The wires on the RJ31 that feed pins 4 and 5 should be the ONLY wires on the D-marc. All other house phone wiring should be tied to pins 1 and 8 coming back from the RJ31.

Dial tone must come into RJ31X on pins 4 and 5 and go back to house phones from pins 1 and 8. Follow these steps to determine if panel is seizing the line:

1. Unplug phone cord from RJ31X
2. Place butt-set on pins 4 and 5
3. Listen for dial tone. With dial tone present, lift either wire from pins 1 or 8
4. Listen for dial tone again. If the dial tone is present, RJ31X wiring is correct. If no dial tone is present, the RJ31X wiring is backwards. Rewire so dial tone is coming IN on 4 and 5.

If you still have trouble with the phone line, you may need to replace the RJ cord. If the dial tone is still not present, swap out the RJ31X phone block.

17.5 FCC Registration

The Model XR150/XR550 Series complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the outside of the enclosure of this equipment is a label that contains, among other information, a product identifier in the format US:CCKAL00BXR550. If requested this number must be provided to the telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. See installation instructions for details.

The Ringer Equivalence Number (REN) is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

If the XR150/XR550 Series causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with the Model XR150/XR550 Series, for repair or warranty information, please contact DMP at the address and telephone number listed on the back of this document. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved. If your premises have specially wired alarm equipment connected to the telephone line, ensure the installation of the panel does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Caution: To ensure proper operation, this equipment must be installed according to the installation instructions in this manual. To verify that the equipment is operating properly and can successfully report an alarm, this equipment must be tested immediately after installation, and periodically thereafter, according to the test instructions in this document and the XR150/XR550 Series Programming Guide (LT-1232). Additionally, verification of Line Seize capability should be made immediately after installation, and periodically thereafter, in order to ensure that this equipment can initiate a call even when other equipment (telephone, answering system, computer modem, etc.) connected to the same line is in use.

RESET and TAMPER Headers

18.1 RESET Header

The RESET header is located to the left of the EXP Expansion Header on the right side of the circuit board and is used to reset the XR150/XR550 Series microprocessor. To reset the panel when first installing the system, install the reset jumper before applying power to the panel. After connecting the AC and battery, remove the reset jumper.

To reset the panel while the system is operational, for example, prior to reprogramming, install the reset jumper without powering down the system. Remove the reset jumper after one or two seconds.

After resetting the panel, begin programming within 30 minutes If you wait longer than 30 minutes, you must reset the panel again.

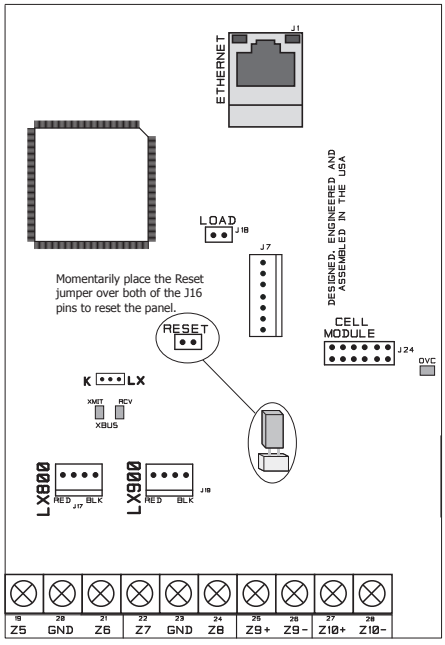

Figure 12: XR550 Series Panel Showing the RESET Jumper

18.2 TAMPER Header

The TAMPER header is for use with the optional DMP 306 Tamper Harness. The harness connects to one or more tamper switches mounted inside the panel enclosure to supervise against unauthorized enclosure opening or removal. Refer to the wiring diagram on the enclosure door for correct tamper switch wiring.

How the Tamper Works

If the enclosure is opened or removed while one or more of the system areas are armed, a panel tamper alarm is indicated. If all areas are disarmed, a panel tamper trouble is indicated.

Cellular Modules

19.1 CELL MODULE Header

The CELL MODULE header is located to the right of the EXP Expansion Module on the right side of the circuit board and is used to connect the DMP Model 263C CDMA or 263H HSPA+ Cellular Communicators. This provides a fully supervised alarm communication path for the XR150/XR550 panel. Refer to the 263C (LT-1264), or 263H (LT-1270) Installation Sheet for complete information.

19.2 Module Installation

1. Insert the PCB standoff end with flanges into the standoff hole in the panel PCB.
2. Align the PCB standoff with the standoff hole in the module PCB.
3. Press the module PCB card 12 pin connector onto the CELL MODULE connector on the panel while applying even pressure to both sides of the board to fully seat the module. See Figure 13.

Note: DO NOT MISALIGN THE CELL MODULE 12 PIN CONNECTOR ONTO THE CELL MODULE HEADER. If needed, the PCB can be removed from the enclosure to allow placement of the cell module.

19.3 Connecting the Antenna

1. Attach a 381 cable to the SMA connector on the cell module.
2. Position one of the supplied washers onto the other end of the 381 SMA connector and push the threaded end through an enclosure knockout.
3. Position the second washer onto the threaded end extending through the knockout and secure the nut.
4. Attach the included 383 Antenna to the SMA connector. See Figure 13.

Note: As an alternative, an antenna coax can be connected directly to the cell module SMA connector when the coax enters the enclosure via conduit.

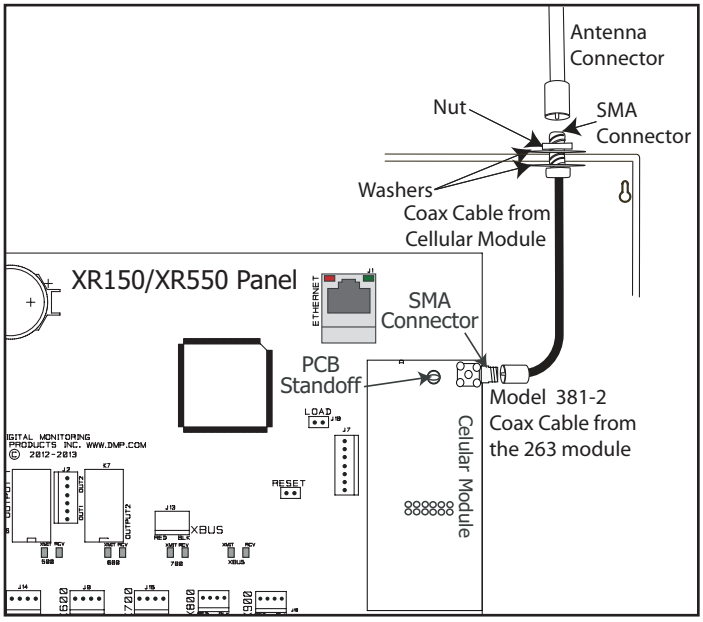

Figure 13: Cellular Module Installation

Wi-Fi Connection

20.1 763 Module to EXP Header

The 763 Wi-Fi Module allows you to add Wi-Fi alarm signal communication to XR150/XR550 Series panels. The 763 connects to the 7- pin EXP header on compatible panels using the included cable and operates at 12 VDC from the panel power supply.

The 763 Wi-Fi Module is compatible with all DMP XR150 Series Version 112 or higher firmware with Level F hardware and XR550 Series control panels Version 112 or higher firmware. Refer to the 763 Wi-Fi Module Installation Guide (LT-1421) for complete information.

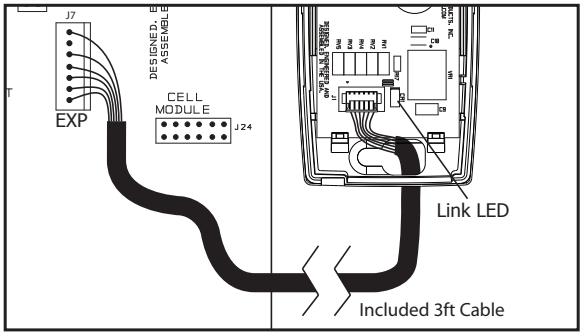

Figure 14: 763 to XR150/XR550 Series

20.2 Connecting the 763

NOTE: POWER MUST BE REMOVED FROM THE PANEL PRIOR TO CONNECTING THE 763 TO THE XR150/XR550 Series EXP HEADER. DAMAGE TO PANEL MAY OCCUR.

1. The included cable connects to the 763 6-pin header. See Figure 14.
2. Connect the opposite end of the cable to the panel EXP header provided on the XR150/XR550 Series panel.

20.3 Status LED

The 763 provides a Green link LED that displays constant to indicate network communication. See Figure 14 for LED location.

20.4 Mounting the 763

Install the 763 away from metal objects. **DO NOT MOUNT THE 763 INSIDE OR ON A CONTROL PANEL METAL ENCLOSURE**.

Mounting the module on or near metal surfaces impairs performance. The enclosure for the module should be mounted using the supplied screw in the mounting hole. Mount the enclosure in a secure, dry place to protect the communicator from damage due to tampering or the elements. It is not necessary to remove the PCB when installing the enclosure.

1. Remove the cover.
2. Connect the included cable to the 763 6-pin header.
3. Hold the transmitter base in its mounting location.
4. Place the supplied screw into the mounting hole location to secure the housing to the surface.

Certifications

California State Fire Marshal (CSFM)

FCC Part 15

FCC Part 68 Registration ID CCKAL00BXR550

New York City (FDNY COA #6167)

XR550 with Encryption Only

- NIST AES Algorithm Certificate #2350 128-bit
- NIST AES Algorithm Certificate #2595 256-bit

SIA

Meets ANSI/SIA CP-01-2010 False Alarm Reduction

ANSI/UL 294	Access Control System Units
ANSI/UL 365	Police Sta. Connected Burg Alarm Units & Systems
ANSI/UL 609	Local Burg Alarm Units & Systems
ANSI/UL 1023	Household Burglar
ANSI/UL 1076	Proprietary Burglar
ANSI/UL 1610	Central Station Burglar
ANSI/UL 1635	Digital Burglar
ANSI/UL 985	Household Fire Warning
ANSI/UL 864	Fire Protective Signaling 9th Edition
ANSI/UL 2017	General-Purpose Signaling Devices and Systems

Compatible with Devices listed for

ANSI/UL 268	Smoke-Automatic Fire Detectors
ANSI/UL 346	Waterflow Indicators for Fire Protective Signaling Systems
ANSI/UL 636	Holdup Alarm Units and Systems Accessory

UL Bank, Safe, and Vault

UL Standard Line Security

UL Encrypted Standard Line Security

Export Control

The XR550 with encryption uses AES encryption and any export beyond the United States must be in accordance with Export Administration Regulations.

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