

INSTALLATION GUIDE



DIGITAL MONITORING PRODUCTS, INC.

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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PRODUCT SPECIFICATIONS SUMMARY

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: 16V AC 100 VA
Standby Battery:	12 VDC, 1.0 Amps Max. charging current on 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 325 mA 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 50 VA-75 VA 3-Pin Header for Transformer Types for panel output 2 Amp or 3 Amp current limitations.

Communication

- Built-in network communication to DMP Model SCS-1R or SCS-VR Receivers
- Built-in 128-bit or 256-bit encrypted communication to DMP Model SCS-1R or SCS-VR Receivers (XR550E Series)
- Built-in Contact ID communication to DMP Model SCS-1R Receivers
- Optional 893A Dual Phone Line Module with phone line supervision
- Optional 763 Wi-Fi Module
- Optional 263LTE Cellular Module
- Can operate as a local panel

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

Panel Zones

- Eight 1k or 2.2k Ohm EOL burglary zones (zones 1 to 8)
- Two 3.3k Ohm EOL powered zone with reset (zones 9 and 10)

Keypad Bus

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

- Alphanumeric keypads
- Graphic Touchscreen keypads
- Four, Eight-and/or single-zone expansion modules
- Single-zone detectors
- Access control modules
- Wireless Keypads (maximum of 7)

LX500-LX900 Bus™

You can connect the following devices to the LX-Bus™ connections provided on the panel:

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

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.

Enclosure Specifications

The XR150/XR550 Series panels are shipped in an enclosure with a transformer, end-of-line resistors, battery leads, a user 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

Description

The DMP XR150/XR550 Series system is a versatile 12 VDC, combined access control, burglary, and fire 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-IR or SCS-VR Receivers using digital dialer, cellular, network, Contact ID, or encrypted communication.

Zone Expansion

The XR550 panel provides multiple options for zone expansion:

Panel	Programming Zone Number	
Onboard	1-10	
Keypad Bus	Programming Zone Number	
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	
1100 Series Wireless	Programming Zone Number	
1144 Series Key Fob	400-449	
LX-Bus	Programming Zone Number	
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	

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

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.

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).

Central Station Communication

The panel reports 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. When connecting the panel to two separate phone lines in fire or burglary applications, use the DMP 893A Dual Phone Line Module.

Encrypted Communications (XR550 with Network & Encryption Only)

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

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.

Compliance Instructions

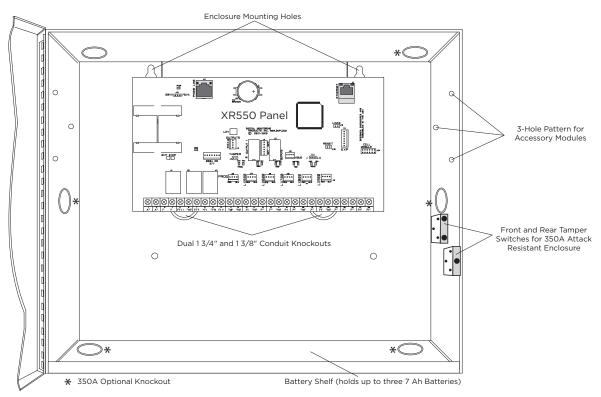
For applications that must conform to a local authorities installation standard or a National Recognized Testing Laboratory certificated system, please see the Compliance Listing Guide LT-1330 for additional instructions.

INSTALLATION

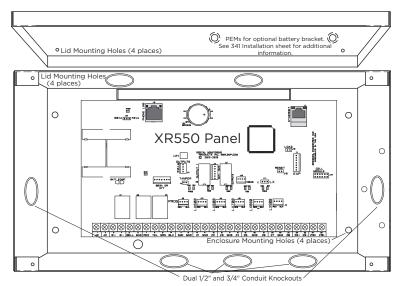
Mounting the Enclosure

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.

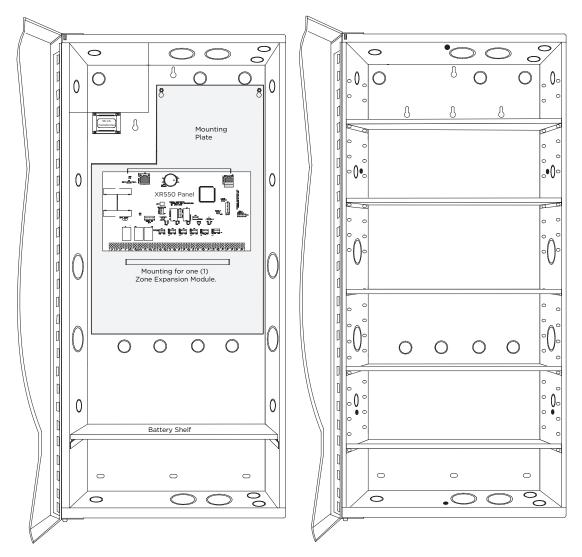
The 305A Attack Resistant enclosure is factory shipped with one knockout on the top left of the enclosure. As needed, additional knockouts or antenna exits may be added at the time of installation. See figure for the positions on the enclosure that can be added. Each additional knockout must be filled with conduit.



XR550 Series in Model 350 or 350A Enclosure



XR550 Series in Model 341 Enclosure



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

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

You can connect devices to the LX-Bus/AX-Bus and Keypad Bus 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 including the wire length and gauge use, 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 (12VDC nominal) with battery backup. 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 2.0VDC. 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.

PRIMARY POWER SUPPLY

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.

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.*

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

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.

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 (Positive Temperature Coefficient switch) in the battery harness wiring to protect each battery from a reversal or short within the circuit.

Use sealed lead-acid batteries only: Use the DMP Model 364 (12VDC 1.3Ah), Model 365 (12VDC 9 Ah), Model 366 (12VDC 18 Ah), Model 368 (12VDC 5.0 Ah), or Model 369 (12VDC 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.

Earth Ground (GND)

The XR150/XR550 Series panel terminal 4 can be connected to earth ground (if available) using 14 gauge wire or larger. Additional options are cold water pipe or ground rod. Gas pipes or sprinkler pipes should not be used. Do not connect to an electrical ground or server rack. A ground connection is not required to provide normal system operation.

Battery Only Start

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.

Battery Replacement Period

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

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: 	Above12.6 VDC

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 11.9VDC 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.

Battery Cutoff

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

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 amperehours required.

Standby Battery Power Calculations	Standby Current	Alarm Current
XR150/XR550 Series Control Panel Relay Outputs 1-2 (ON) Switch Grounds 3-6 (ON) Active Zones 1-8 Active Zones 9-10 2-Wire Smoke Detectors Panel Bell Output	Qty 1 x 174mA 174 Qty 30mA	Qty 30mA Qty 5mA Qty 2mA* Qty 30mA
893A Dual Phone Line Module	Qty x 12mA	Qty x 50mA
263LTE Cellular Communicator	Qty x 20mA	Qty x 20mA
277 Buzzer Module	Qty x 5mA	Qty x 5mA
1100X Wireless Receiver	Qty x 25mA	Qty x 35mA
1100XH Wireless High Power Receiver	Qty x 75mA	Qty x 102mA
860 Relay Output Module (one relay active) All four relays active	Qty x 34mA 138mA	Qty x 34mA 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
7830F Fire Command Keypad	Qty x 84mA	Qty x 108mA
7060/7160 Thinline/7060A Aqualite Keypad	Qty x 72mA	Qty x 87mA
7063/7163 Thinline/7063A Aqualite Keypad	Qty x 85mA	Qty x 100mA
7070/7170 Thinline/7070A Aqualite Keypad Active Zones (EOL Installed)	Qty x 72mA 1.6mA	Qty x 87mA Qty x 2mA*
7073/7173 Thinline/7073A Aqualite Keypad Active Zones (EOL Installed)	Qty x 85mA 1.6mA	Qty x 100mA* Qty x 2mA
7872 Graphic Touchscreen Keypad Active Zones (EOL Installed)	Qty x 145mA 1.6mA	Qty x 215mA Qty x 2mA*
7873 Graphic Touchscreen Keypad Active Zones (EOL Installed)	Qty x 143mA 1.6mA	Qty x 243mA Qty x 2mA*

Standby Battery Power Calculations		Standby Currer	nt		Alarm C	urrent	
736P POPIT Interface Module Radionics Popex, POPITs, OctoPOPITs	Qty _ Qty _	x 25mA xmA		Qty _ Qty _	X	25mA mA	
738A Ademco Wireless Interface Module	Qty_	x 75mA		Qty_	X	75mA	
738Z+ Z-Wave Interface Module	Qty_	x 40mA		Qty_	X	40mA	
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 _ Qty _	x 11mA x 1.6mA		Qty _ Qty _	×	11mA 2mA*	
711S Zone Expansion Module	Qty_	4.2mA		Qty_		4.7mA	
714 Zone Expansion Module Active Zones (EOL Installed)	Qty _ Qty _	x 7mA x 1.6mA		Qty _ Qty _	×	7mA 2mA*	
712-8 Zone Expansion Module Active Zones (EOL Installed)		x 17mA x 1.6mA		Qty _ Qty _	×	17mA 2mA*	
714-8, 714-16 Zone Expansion Module Active Zones (EOL Installed)		x 20mA x 1.6mA			×	20mA 2mA*	
715 Zone Expansion Module Active Zones (EOL Installed) 2-Wire Smokes	Qty_	x 4mA		Qty _	X X	30mA*	
715-8, 715-16 Zone Expansion Modules Active Zones (EOL Installed) 2-Wire Smokes	Qty_			Qty_	X X	30mA ^{**}	
716 Output Expansion Module Active Form C Relays	Qty_	x 7mA		Qty _ Qty _	X	7mA 28mA	
717 Graphic Annunciator Module Annunciator Outputs	Qty_	x 10mA _		Qty _ Qty _	X	10mA 1mA	
2W-BLX, 2WT-BLX Smoke Detectors	Qty_	x 15mA		Qty_	X	35mA*	
COSMOD2W Module	Qty_	x 45mA		Qty_	x 17	74mA*#	
COSMO-2W Smoke and CO Detectors	Qty_	x 1mA		Qty _	x 5	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-Tota	al Alarm	mA
Sub-Totals from previous page		Sub-Total Standby _	mA		Sub-Tota	al Alarm	mA
*Based on 10% of active zones in alarm		Total Standby _			Tota	al Alarm	mA
# For systems that are not central station i	monito	ored, multiply alarm	current by	12.			
Total StandbymA x n	umber				mA-hours mA-hours		
		Total Alarm			mA-hours		
				=		equired	

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 for 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.

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 B	7 Ał	
Max. Ah Available	No. of Batteries	Max. A Availat
8	2	6
12	3	12
16	4	18
20	5	24
24	6	31
28	7	37
32	8	43
36	9	48 hour
40	10	section.

h Ba	atteries	7.7
Ah ble	No. of Batteries	Max Avai
	1	(
	2	1
	3	2
	4	2
	5	3
	6	2
	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 No. of			
Available	Batteries		
16	1		
32	2		
48	3		

8 hours is the typical battery recharge time for any of the Number of Batteries shown in this ection.

60 hours of standby power

7 Ah Ba	atteries	7.7 Ah Batteries	
Max. Ah	No. of	Max. Ah	No. of
Available	Batteries	Available	Batteries
13	2	14	2
20	3	22	3
27	4	29	4
33	5	37	5
40	6	44	6
47	7	52	7
54	8	59	8
60	9	67	9
67	10		

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

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

60 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 Ba	9 Ah Batteries		18 Ah Batteries		
Max. Ah Available	No. of Batteries		Max. Ah Available	No. of Batteries	
16	2		16	1	
25	3		33	2	
33	4		50	3	
42	5		67	4	
50	6				
59	7		72 hours is	the typica	
67	8		shown in th	nis section.	

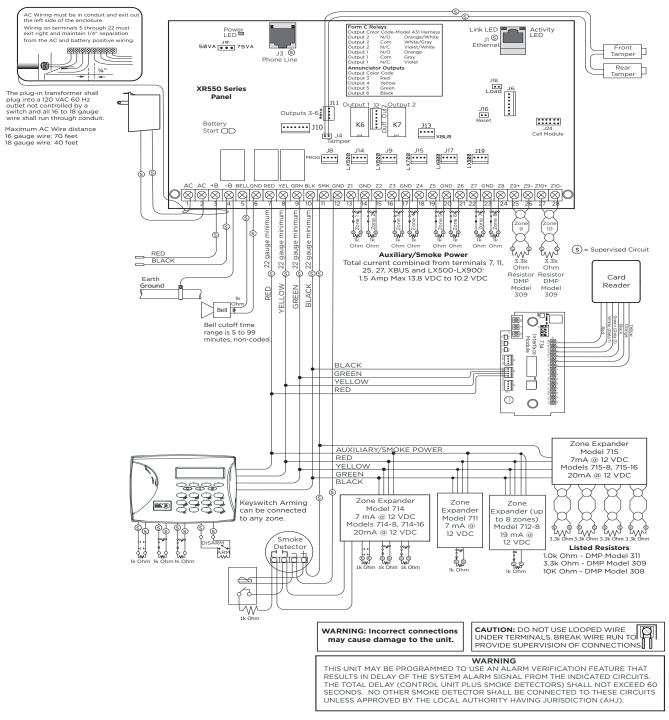
al battery recharge time required for any of the Number of Batteries shown in this section.

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.

SYSTEM COMPONENTS

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.



XR550 Series Wiring Diagram

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.

BELL OUTPUT

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

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 keypads, you can also connect any combination of zone expansion modules to the data bus up to a total of 16 devices. Do not use shielded wire for LX-Bus/Keypad Bus circuits.

Terminal 7 - RED

This terminal supplies positive 12 VDC regulated to power DMP 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.

Terminal 8 - YELLOW

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

Terminal 9 - GREEN

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

Terminal 10 - BLACK

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

Programming (PROG) Connection

A 4-pin header PROG header 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. The programming keypad must be set to address 1.

Keypad Bus LEDs

The two LEDs, located above the PROG header, 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.

OVC LED(s)

The Overcurrent LED (OVC) lights up 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 up 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

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.

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

Terminal

13

Terminals 13-24

The

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

19

	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		
-	roltage sensing terminal measures the voltage across a 1k Ohm End-of-Line S					

Function

Zone 1 voltage sensing

resis devices can be used in series (normally-closed) or in parallel (normally-open) with any of the burglary protection zones.

Operational Parameters

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

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.

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.

Zone Voltages Using 2.2k Ω Resistors				
State	Voltage			
Short	0 - 2.1 VDC			
Normal	2.2 - 2.9 VDC			
Open	≥ 3 VDC			
Applies to zones 1-9 on XR Series panels with Version 193 firmware and higher				

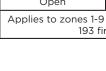
1k Ohm Normally Open

1k Ohm

Normally Open and Normally Closed

Function

Zone 5 voltage sensing





16

POWERED ZONES FOR 2-WIRE SMOKE DETECTORS

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.

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 1.25 mA DC. The maximum line impedance is 100 Ohms. The maximum short circuit current is 56 mA. When using zone expansion modules, use Model 309 EOL resistors. The compatibility identifier for the zones is A.

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

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.

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

DRY CONTACT RELAY OUTPUTS

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:

- Activation by zone condition: Steady, Pulsing, Momentary, and Follow
- Activation by 24-hour 7-day schedule: One on and one off time a day for each relay
- Manual activation from the DMP keypad menu
- Communication failure
- Armed area annunciation
- Fire Alarm, Fire Trouble or Supervisory
- Ambush Alarm
- Exit and Entry timers
- System Ready
- Late to Close
- Panic Alarm
- Ready
- Armed
- Disarmed
- Burglary
- Phone Trouble
- Device Fail
- Sensor Rest
- Closing Wait

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.

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 2 normally open 	 Orange with White Stripe
 Output 2 common 	 White with Gray Stripe
 Output 2 normally closed 	 Violet with White Stripe
 Output 1 normally open 	• Orange
 Output 1 common 	• Gray
 Output 1 normally closed 	• Violet

ANNUNCIATOR OUTPUTS

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 at 50 mA.

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
3	Red	1
4	Yellow	2

Output	Color	Wire
5	Green	3
6	Black	4

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

Description

The XBUS Wireless Bus header provides connection for the 1100X/1100XE or 1100XH/1100XHE Wireless Receiver. The XBUS provides up to 500 wireless zones numbered 500-999. Refer to the 1100X Series Wireless Receiver Install Guide (LT-1822) or the 1100XH Series Wireless Receiver Install Guide (LT-1823) for complete information.

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

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

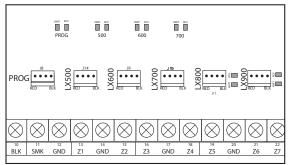
LX-Bus/AX-Bus Headers

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.

LX-Bus (XR150/XR550)

LX-Bus operation is compatible with hardwired zone and output expanders. Each LX-Bus represents 100 addresses.

- • 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)



LX-Bus Headers and LEDs

AX-Bus (XR550):

AX-Bus operation is compatible only with XR550 control panels and DMP Model 734, 734N, and 734N-POE Access Control Modules. All four door access modules provide one Form-C relay output and expansion zones. AX-Bus operation is not compatible with addressable zone and output expanders. Each AX-Bus represents predetermined addresses for 734, 734N, and 734N-POE operation: 16 addresses for door relay outputs, and 64 addresses for expansion zones.

Keypad Bus						LX/A	X Bus					
Device/ Door	/ Zones	evice/	Device/ Door	Zones								
	Zones	501	501-504	601	601- 604	701	701-704	801	801-804	901	901- 904	
2	21-24	505	505- 508	605	605- 608	705	705- 708	805	805- 808	905	905- 908	
3	31-34	509	509-512	609	609-612	709	709-712	809	809-812	909	909-512	
4	41-44	513	513-516	613	613-616	713	713-716	813	813-816	913	913-916	
5	51-54	517	517-520	617	617-620	717	717-720	817	817-820	917	917-920	
6	61-64	521	521-524	621	621-624	721	721-724	821	821-824	921	921-924	
7	71-74	525	525-528	625	625- 628	725	725-728	825	825-828	925	925-928	
8	81-84	529	529-532	629	629- 632	729	729-732	829	829-832	929	929- 932	
9	91-94	533	533-536	633	633- 636	733	733-736	833	833- 836	933	933- 936	
10	101-104	537	537- 540	637	637- 640	737	737-740	837	837- 840	937	937- 940	
11	111-114	541	541-544	641	641-644	741	741-744	841	841-844	941	941-944	
12	121-124	545	545- 548	645	645- 648	745	745-748	845	845- 848	945	945- 948	
13	131-134	549	549- 552	649	649- 652	749	749-752	849	849- 852	949	949- 952	
14	141-144	553	553-556	653	653- 656	753	753-756	853	853- 856	953	953- 956	
15	151-154	557	557- 560	657	657- 660	757	757-760	857	857- 860	957	957- 960	
16	161-164	561	561-564	661	661-664	761	761-764	861	861-864	961	961-964	
XR150/XI	XR150/XR550 Series Installation Guide Digital Monitoring Products 21											

Device Addresses and 734, 734N, and 734N-POE Zone Numbers

XRISO/XRSSO Series installation Guide | Digital Monitoring Products

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.

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.

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) lights 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

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 100 Mb/s full duplex operation and the maximum impedance is 100 Ohms.

Ethernet LEDs

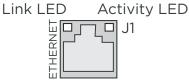
The two LEDs, located on the top edge of the ETHERNET Connector, indicate network connection. The left Link LED lights up yellow when connected to a 100 Mb network and is off when connected to a 10 Mb network. The right, Activity LED lights up green to indicate a valid receive connection from the host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

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.

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

ETHERNET and LEDs



PHONE LINE RJ CONNECTOR

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.

To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord, such as DMP Model 356 Series Phone Cords.

893A or 277 Connector

If using an 893A Dual Phone Line Module or Model 277 Trouble Sounder, connect them 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.

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:

- 1. The particular line(s) where the service is connected
- 2. The FCC registration number as listed in Section 17.5
- 3. The ringer equivalence
- 4. The device make, model, and serial number

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. The table and image below identify the phone block pin layout, wire numbers, and colors.

Wire Number	Wire Color	To Telephone Line Ring Tip
1	Gray	∂ 6 3 ∂ RJ31X or RJ38X
2	Orange	⊕72⊕ Phone Block
3	Black	8@@1
4	Red	Ring 1
5	Green	To Premise Tip 1
6	Yellow	Phone
7	Blue	Phone Jack Wiring
8	Brown	

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.

RESET AND TAMPER HEADERS

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.

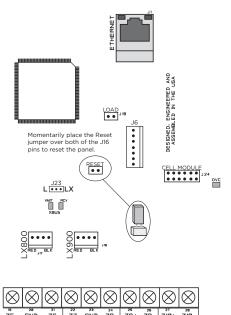
After resetting the panel, begin programming within 30 minutes If you wait longer than 30 minutes, you must reset the panel again.

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

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 263LTE Cellular Communicator. This provides a fully supervised alarm communication path for the XR150/XR550 panel.

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.

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.

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

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.

WI-FI CONNECTION

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.

Connecting the 763

Power must be removed from the panel prior to connecting the 763 to the XR150/XR550 Series EXP header. Damage to the panel may occur. The included cable connects to the 763 6-pin header.

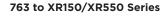
Status LED

The 763 provides a Green link LED that displays constant to indicate network communication.

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.

ELL CELL CODULE Link LED Included 3ft Cable



ACCESSORY DEVICES

Cellular Communicator Cards	
263LTE Cellular Communicator	Allows you to connect the XR150/XR550 Series to the LTE network.
263LTE-FN Cellular Communicator	Provides wireless communication for XR Series panels and is approved for use on FirstNet.
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 Zone Expansion Module	Increases available reporting zones. Provides one Type A Class B zone.
711S Zone Expansion Module	Provides one Class B zone for connecting burglary devices.
712-8 Zone Expander	Provides Class B zones for connecting burglary devices.
714, 714-8, 714-16 Zone Expanders	Provides Class B zones for connecting burglary and non-powered fire devices.
714N-POE	Provides four zones using IP network capability. Compatible with 1k-10k resistors.
715, 715-8, 715-16 Zone Expanders	Provides 12VDC 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-POE Access Control 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 Series/1100XH Series	Supports up to 100 devices on XR150 panels and 500 devices on XR550 panels in residential
Receiver	or commercial wireless operation.
1100R Repeater	Provides additional range for wireless devices.
1100T Wireless Translator	Allows non-DMP wireless devices to integrate with DMP XR150/XR550 Series panels.
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.
1108 Wireless Doorbell Module	Monitors doorbell presses.
1114 Four-Zone Expander	Provides four wireless zones.
1115 Wireless Temperature Sensor	Temperature and flood detector wth an internal temperature sensor. Can be paired with
and Flood Detector	470PB or T280R remote sensors.
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.
1122 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.

1128 Wireless Glassbreak Detector	Provides fully-supervised, low current shock and glassbreak detection coverage up to 20 ft.
1131 Recessed Contact	Provides a recessed contact option for door or window applications.
1132 Recessed Contact	Provides a recessed contact option for door or window applications.
1135 Wireless Siren	Provides a wireless siren.
1136 Remote Chime	Multi-function sounder that plugs directly into a standard 110VAC wall outlet.
1139 Bill Trap	Provides a silent alarm option for retail and banking cash drawers.
1141 Wall Button	One button wall mounted wireless transmitter.
1142 Two-button Panic Transmitter	Provides permanently mounted under-the-counter two-button panic operation.
1142BC Two-button Panic Belt Clip Transmitter	Provides portable two-button panic operation.
1144 Series Wireless Key Fobs	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.
1154 4-Zone Takeover Module	Converts up to four existing normally closed, hardwired zones into wireless zones.
1158 8-Zone Input Module	Converts up to 8 existing hardwired zones into wireless zones.
1164/1164NS Wireless Synchronized Smoke Detector	Commercial or residential, battery powered, wireless, low profile, photoelectric smoke detector, with or without synchronizing sounder.
1166 Wireless Smoke Ring	Installs on any tradational AC-powered, three wire, interconnected smoke alarm system.
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.
738Zplus 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 @ 30VDC. 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	Provides supervised alarm current when using the XR150/XR550 Series panel bell output
Notification Circuit Module	and up to 5 Amps at 12 or 24VDC 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 24VDC 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 24VDC 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.
7830F Fire Command Keypad	Allows you to control the panel from various remote locations. Connect up to sixteen Model 7830F Fire Command 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 seven 9060/9063 Wireless Keypads.
9800 Series Wireless Graphic	Allows you to control the panel from various remote locations. Associate up to seven 9862
Touchscreen Keypad	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.

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.

Certifications

California State Fire Marshal (CSFM) FCC Part 15

FCC Part 68 Registration ID CCKAL00BXR550

Los Angeles Fire Department (LAFD)

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

Underwriters Laboratory (UL) Listed

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

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Designed, engineered, and manufactured using U.S. and global components in Springfield, MO. © 2024 Digital Monitoring Products, Inc. LT-1233 1.01 24162

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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