

INSTALLATION GUIDE



XTLN/XTLN-WIFI PANEL

MODEL XTLN/XTLN-WiFi INSTALLATION GUIDE

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device has been designed to operate with the integrated 1100 Series PCB antenna having a maximum gain of 1.8 dB. Antennas having a gain greater than 1.8 dB are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

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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Panel Specifications

1.1 Power Supply

Input: 12 VDC
Standby Battery: 3.7 VDC Lithium
All circuits inherent power limited

1.2 Communication

Built-in network communication to DMP Model SCS-1R or SCS-VR Receivers.

1.3 Keypads

You can connect up to 4 alphanumeric 9000 Series Wireless Keypads.

1.4 Number of Zones

- XTLN/XTLN-WiFi has 28 wireless initiating zones numbered 1-28
- Zone and Output numbers 31 to 34 and 41 to 44 can support 1100 Series Key Fobs, Output Modules, or sirens

1.5 Enclosure Specifications

The XTLN/XTLN-WiFi panel ships in a plastic enclosure with a user's guide and programming sheet.

Size	Color
5.5" W x 3.75" H x 1" D	White (W)

INTRODUCTION

Introduction

2.1 System Configurations

The panel can be programmed to operate as any of the following system types:

- All/Perimeter system that provides one perimeter area and one interior area
- Home/Sleep/Away system that provides one perimeter, one interior, and one bedroom area. The bedroom area provides for any protection devices the user wants disarmed during their sleeping hours and armed in the Away mode.
- Six area system that provides areas of protection that can be independently armed or disarmed.

2.2 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.

2.3 Compliance Instructions

For applications that must conform to a local authorities installation standard or a National Recognized Testing Laboratory certificated system, please see the Listed Compliance Specifications section near the end of this guide for additional instructions.

SYSTEM COMPONENTS

System Components

3.1 Accessory Devices

DMP Two-Way Wireless Devices	
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 one 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 with EOL resistors.
1116 Relay Output*	Provides one Form C relay.
1117 LED Annunciator*	Provides a visual system status indicator.
1119 Door Sounder*	Provides a wireless sounder with integrated door contact
1121 PIR Motion Detector*	Provides motion detection with pet immunity.
1126R PIR 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 concealed protection for doors, windows or other applications.
1135/1135DB Siren*	Provides a wireless siren
1139 Bill Trap*	Provides a silent alarm option for use in 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.
1145-4 (Four-Button)* 1145-2 (Two-Button)* 1145-1 (One-Button)*	Key Fob transmitters designed to clip onto a key ring or lanyard.
1161 Residential Smoke Detector	Residential smoke detector with sounder.
1162 Residential Smoke 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 Module	
738Z Z-Wave Interface Module*	Provides connection for Z-Wave modules.
Keypads	
9000 Series LCD keypads	Allows you to control the panel from various remote locations using 9000 Series Wireless Keypads. Connect up to four 9060, 9063 Wireless Keypads.
9800 Series Wireless Graphic Touchscreen keypads	Allows you to control the panel from various remote locations. Connect up to four keypads. 9862 Wireless Keypads.
* These devices have not been investigated and shall not be used in listed installations	

Installation

4.1 Mounting Location Information

A location should be selected that is centrally located between the 1100 Series transmitters used in the installation. Install the XTLN/XTLN-WiFi away from metal objects. Mounting the panel on or near metal surfaces impairs performance. When selecting the proper mounting location of a transmitter, refer to the LED Survey Operation section of the specific installation guide for the transmitter being installed.

4.2 Mounting the Enclosure

The enclosure for the panel must be mounted using the provided #6 screws in the four mounting holes shown in Figure 2. Mount the enclosure in a secure, dry place away from metal objects to protect the panel from damage due to tampering or the elements. Mount the panel a minimum of 4 feet from any wireless transmitters or repeaters. It is not necessary to remove the PCB when installing the enclosure.

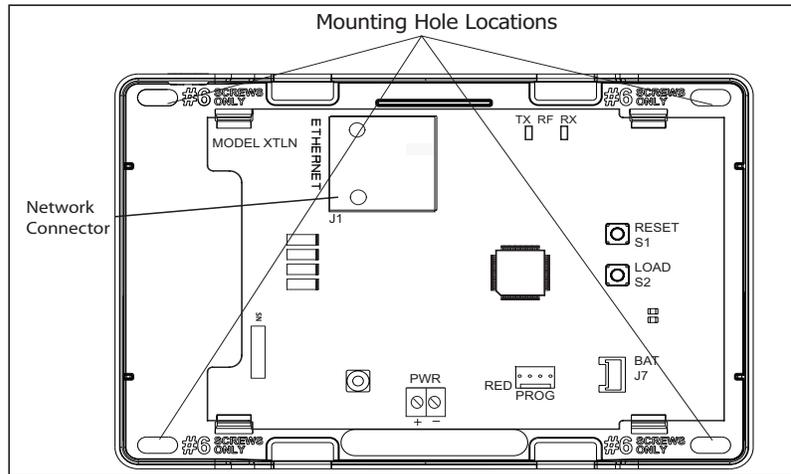


Figure 1: Mounting Hole Locations

Primary Power Supply

5.1 DC Input

Mount the panel near a wall outlet for the Model 372-500 plug-in DC transformer. In addition to powering the panel, the DC plug-in transformer also charges the back-up battery. The 372-500 must be located within 100 feet of the panel using 22 AWG wire. Use the following steps to connect the plug-in transformer:

OBSERVE POLARITY

1. Using 22 AWG wire, connect the panel PWR first terminal (+) to the positive terminal on the power supply.
2. Connect the panel PWR second terminal (-) to the negative terminal on the power supply.
3. Plug the power supply into a 120 Volt AC, 60Hz dedicated outlet not controlled by a switch.

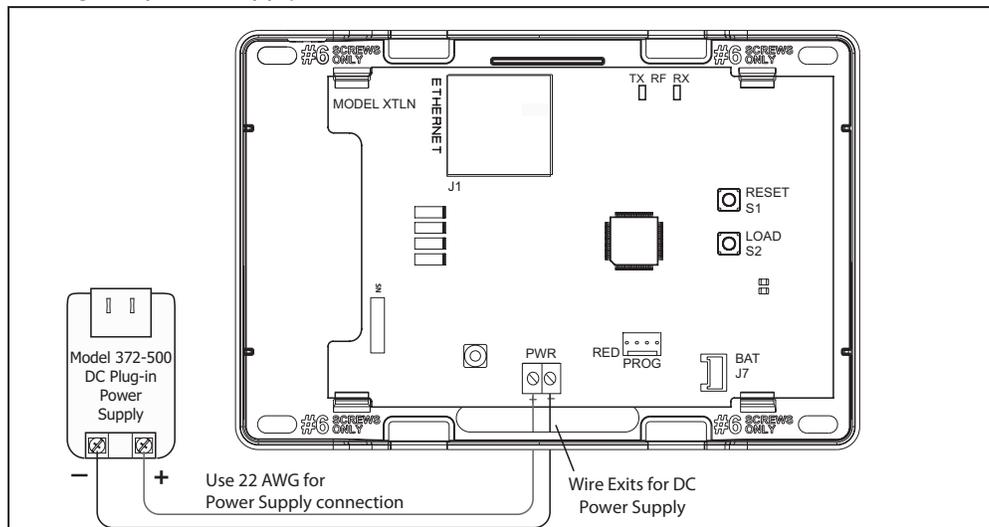


Figure 2: DC Power Supply Connection

Secondary Power Supply

6.1 Standby Battery

The XTLN/XTLN-WiFi rechargeable battery is used to provide backup battery power when DC power is not available. The battery is intended for backup power only and not to operate the panel on a daily basis. If the battery is low, or not plugged into the BAT battery connector, a low battery condition is indicated by the panel.

Note: If removing the panel from service, disconnect the backup battery from the BAT connector.

6.2 Replacement

Use the following steps to replace the XTLN/XTLN-WiFi standby battery. DMP recommends replacing the battery every 3 years under normal use.

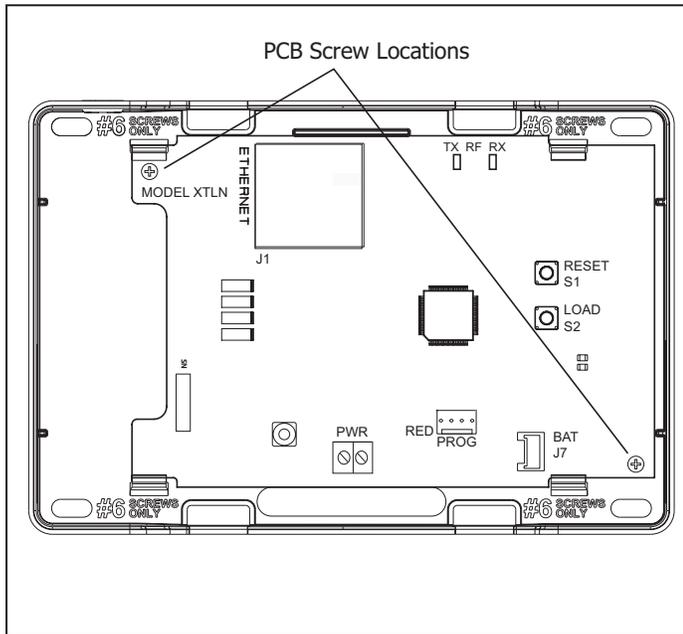


Figure 3: PCB Screw Locations

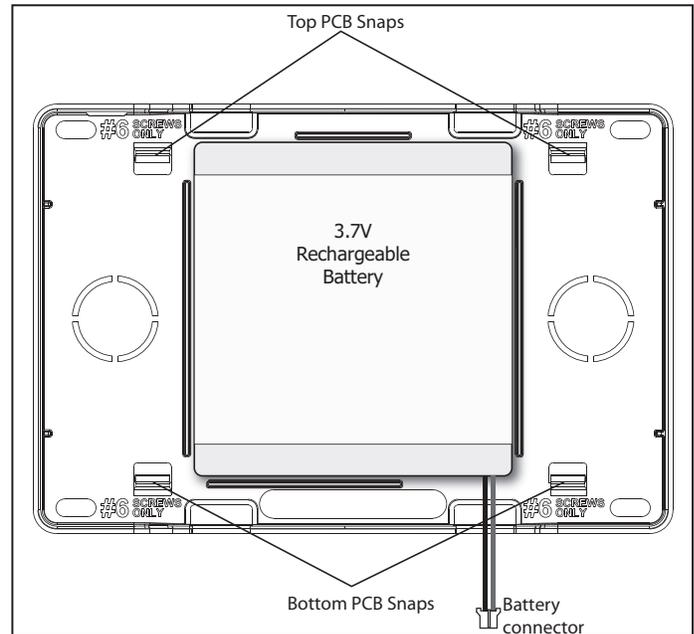


Figure 4: Standby Battery Replacement

1. Unplug the battery connector (BAT) from the XTLN/XTLN-WiFi panel.
2. If installed, remove the screw from the PCB.
3. Loosen the top PCB snaps.
4. Lean the panel PCB forward and lift out from the bottom PCB snaps.
5. Remove and properly dispose of the used battery.



Caution: Risk of fire, explosion, and burns. Do not disassemble, heat above 212°F (100°C), or incinerate. Properly dispose of used batteries.

6. Place the new battery into the XTLN/XTLN-WiFi housing base with the battery wires directed toward the bottom right corner. See Figure 4.
7. Set the XTLN/XTLN-WiFi PCB into the bottom snaps and press into the top snaps to secure in place.
8. Plug the battery into the panel connector (BAT).

6.3 Battery Supervision

The panel tests the battery once every hour when DC power is present. This test occurs 15 minutes past each hour and lasts for five seconds. A load is placed on the battery and if the battery voltage is low, a low battery is detected. If DC power has failed, a low battery is detected any time the battery voltage falls below 3.7V.

LED Operation

7.1 Backlit Logo

The backlit logo indicates the Power and Armed status of the panel. Depending on the operation, the LED displays in Red or Green as listed in the table.

Color and Activity	Operation
Green Steady	Panel Disarmed, Primary Power OK, Battery OK
Green Blinking	Panel Disarmed, Primary Power OK, Battery Fault
No Light	Panel Disarmed, Primary Power Fault, Battery OK
Red Steady	Panel Armed, Primary Power OK, Battery OK
Red/Green Alternate	Panel Armed, Primary Power OK, Battery Fault
Red Blinking	Panel Armed, Primary Power Fault, Battery OK

On-Board Network (XTLN only)

8.1 Description

The ETHERNET Connector connects directly to an Ethernet network using a standard CAT-5 patch cable.

8.2 Ethernet LEDs

The two LEDs, located on the left side of the ETHERNET Connector, indicate network operation. The top, Link LED is a blinking green light when messages are being received or transmitted. The bottom, Activity LED flashes yellow to indicate 100 Mbits/second.

On-Board WiFi Network (XTLN-WiFi only)

9.1 Description

The XTLN-WiFi connects directly to a WiFi network for encrypted TCP communication using a Wireless-B/G connection. The XTLN-WiFi uses wireless 802.11b/g WiFi technology, which can travel 125 ft. indoors and can reach out to 460 ft. outdoors with a clear line of sight.

Note: Range for WiFi communication has not been investigated by UL.

9.2 WiFi LEDs

The two WiFi LEDs, located in the center of the circuit board, indicate network operation. The left WiFi-1 LED is a green light that is solid when the network is connected and blinks on and off when there is no network connectivity. The right WiFi-2 LED is a yellow light and blinks when messages are being received or transmitted.

RESET Button

10.1 Description

The RESET button is located on the right side of the circuit board and is used to reset the XTLN/XTLN-WiFi microprocessor. To reset the panel prior to reprogramming, press the RESET button without powering down the system. After resetting the panel, begin programming within 30 minutes. If you wait longer than 30 minutes, you must reset the panel again.

Programming (PROG) Connection

11.1 Programming Connection

A locking 4-pin PROG header is provided to connect a keypad when using a DMP Model 330 Programming Cable. This provides a quick and easy connection for programming the XTLN/XTLN-WiFi panel. After programming is complete, remove the keypad.

Installing the 738Z

To connect the wiring of the 738Z to the PROG header of the panel, use a PC-0140 Connector Assembly (included with the 738Z) for connection of a Model 300 harness. When used with the XTLN/XTLN-WiFi, the 738Z operates using the backup battery when primary power is not present.

Note: The PROG header is not intended to provide a Keypad Data Bus connection. The programming keypad is operational only when primary power is applied to the panel.

On-Board 1100 Series Wireless

12.1 Wireless Antenna

The XTLN/XTLN-WiFi Wireless Antenna is integrated into the circuit board. The panel's built-in wireless receiver operates with DMP 1100 Series transmitters. See section 3.1 for a list of accessory devices.

12.2 Wireless LED Operation

Green (TX): The green LED flashes every time the receiver transmits (32 times per second). If the panel is reset, or the panel is powered off, the green LED is off. Under normal operation, the green LED flashes constantly with no interruption or change.

Yellow (RX): The yellow LED flashes every time the panel receives a message from a programmed wireless transmitter. When a message is sent by a transmitter, typically by pressing or releasing the tamper switch, the yellow LED should flash indicating that the panel received a message from the transmitter. If the LED never flashes, the transmitter is not getting through to the panel. This could be because of a misprogrammed serial number or the transmitter is too far away. Under normal operation, the yellow LED flashes at every trip of every wireless transmitter and when the transmitters perform their periodic check-in. It is not unusual for this LED to stay off for many minutes at a time when no transmitters are communicating.

Wireless Keypads

13.1 Mounting Keypads

DMP keypads have removable covers that allow the base to be mounted on a wall, desk stand or other flat surface using the screw holes provided on each corner.

13.2 Wireless Keypad Association

Enable Wireless Keypad Association operation on both the keypad and panel.

To enable association operation in the keypad, access the Installer Options Menu (3577 (INST)). The keypad logo LEDs turn off until association is successful. Refer to 9000 Series Wireless Keypad Installation Guide LT-1107 or the 9862 Series Wireless Graphics Keypad Installation Guide LT-1367 for more information.

To enable association in the panel, reset the panel three times as described below and observe the operation of Green LED and Red Backlit Logo LED's. See Figure 5 for Backlit Logo LED location.

1. Press RESET.
2. The Green LED turns off.
3. The Green LED and Red LED turn on steady then off.
4. The Green LED turns on again.

Repeat steps 1 - 4 two more times or until both the Green LED and Red LED remain on steady.

For 60 seconds the panel listens for wireless keypads that are in the Installer Options Menu (3577 CMD) and have not been programmed, or associated into another panel. Wireless keypads are assigned to the first open device position automatically based upon the order in which they are detected. The keypad logo turns Green to indicate it has been associated with the panel.

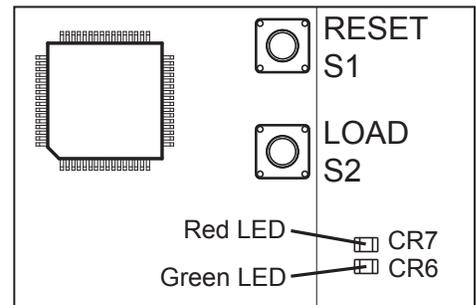


Figure 5: XTLN/XTLN-WiFi Backlit Logo LED's

Wireless Zones

14.1 Description

XTLN/XTLN-WiFi panels provide 28 wireless zones numbered 1 to 28. A default zone name, zone type, and area assignment are described in the XTLN/XTLN-WiFi Programming Guide (LT-1221) and can be changed in Zone Information programming as needed. The defaults are provided as a programming convenience to help reduce installation time.

Wireless Key Fobs and Outputs

15.1 Description

XTLN/XTLN-WiFi panels provide 8 wireless key fob or output addresses numbered 31 to 34 and 41 to 44. A default name is provided as a programming convenience to help reduce installation time. The default names are described in the XTLN/XTLN-WiFi Programming Guide (LT-1221) and can be changed in Output Information or Zone Information programming as needed.

Flash LOAD Button

16.1 Description

The XTLN/XTLN-WiFi panel software can be updated via the panel's Programming (PROG) header. To update the panel with a new software version, complete the following steps at the protected premise:

Model 399 Cable

1. Connect a DMP 399 Cable from the PROG Header to the serial port of your PC operating Remote Link and containing the XTLN/XTLN-WiFi RU file.
2. Start Remote Link and create or open the control panel account that matches the panel to be updated.
3. Set the Connection Information Type to Direct with a baud rate of 38400 and choose the appropriate COM port.
4. Select Panel>Remote Update, then select the correct RU file for the panel.
5. Press and hold the LOAD button, then press and release the RESET button.
6. Release the LOAD button and click <Update> in Remote Link.
7. After the software update is completed, remove the 399 cable and press the RESET button to resume normal panel operation.

Model 400 USB Flash Module

1. Press and hold the LOAD switch. While holding the LOAD switch, press and release the RESET switch
2. Release the LOAD switch.
3. Connect the USB flash drive to the Model 400 and connect the assembly to the panels PROG header. The LED on the Model 400 will flash and display steady green.
5. Press and release the load button on the Model 400 to initiate the firmware update. The LED on model 400 will flash slowly. If the LED displays fast flashes it means the firmware update was unsuccessful.
6. The update will take approximately 4.5 minutes and when complete the LED on the Model 400 will display steady green.
7. Press and release the RESET switch then remove the USB flash drive and Model 400 assembly. For additional information see Model 400 USB Flash Module Installation Guide (LT-1402).

Listed Compliance Specifications

17.1 Introduction

The programming and installation specifications contained in this section must be completed when installing the XTLN/XTLN-WiFi in accordance with any of the ANSI/UL or SIA burglary standards. Additional specifications may be required by a particular standard.

17.2 Use Marking

Commercial Central Station, Household Burglar and Fire Control Unit.

17.3 NFPA 72

This equipment should be installed in accordance with Chapter 11 of the National Fire Alarm Code, ANSI/NFPA 72-2002, (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269). Printed information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment. Warning: Owner's instruction notice, not to be removed by anyone except occupant.

17.4 Types Of Service

Suitable for Central Station Burglar. Suitable for Household Fire and Household Burglar. Test weekly.

17.5 Bypass Reports

The bypass reports must be programmed as YES for all listed burglary applications.

17.6 Battery Standby

The XTLN/XTLN-WiFi is shipped with a battery for 24 hour battery standby operation.

Household Burglar-Alarm System Units ANSI/UL 1023

18.1 Bell Cutoff

The bell cutoff time cannot be less than 4 minutes.

18.2 Entry Delay

The maximum entry delay used must not be more than 45 seconds.

18.3 Exit Delay

The maximum exit delay used must not be more than 60 seconds.

18.4 Wireless External Contact

When used, the External Contact of 1101, 1102, or 1106 transmitters must be programmed Normally Closed.

18.5 Wireless Supervision Time

The Zone Information Supervision Time cannot be set to 0 (zero).

18.6 Wireless Audible Annunciation

The Wireless Audible option must be selected as DAY for residential applications.

18.7 Panel location

Mount panel inside protected area.

18.8 Test Frequency

The Test Frequency option must be programmed to send a report at least once every 30 days.

Central Station Burglar Alarm Units ANSI/UL 1610

19.1 Supervision

Commercial Burglary is provided when the Check-in and Fail Time time is set to 3 minutes.

19.2 Remote Disarm

REMOTE DISARM must be programmed as NO.

19.3 Central Station

MESSAGE TO TRANSMIT programming for zones must not be set to LOCAL (L).

Household Fire Warning System ANSI/UL 985 NFPA 72 Specifications

20.1 Bell Output Definition

The wireless siren of the panel must be programmed to operate steady on burglary alarms and temporal on fire alarms. See the XTLN/XTLN-WiFi Programming Guide (LT-1221).

20.2 Household System

An alarm sounding device must be installed indoors so that it is clearly heard in all sleeping areas.

20.3 Wireless Supervision Time

The Zone Information Supervision Time must be 3 minutes for fire devices. See the XTLN/XTLN-WiFi Programming Guide.

20.4 Test Frequency

The Test Frequency option must be programmed to send a report at least once every 30 days.

20.5 Wired Modules

Modules that connect to the PROG header, such as the 738Z, must not be used since the battery standby time will be reduced below the 24 hour minimum.

False Alarm Reduction Programmable Options ANSI/SIA CP-01-2010

19.1 Shipping Defaults and Recommended Programming

SIA CP-01 FEATURE PARAGRAPH # AND DESCRIPTION	DMP PROGRAMMING GUIDE LT-1221 SECTION #	REQUIREMENT	RANGE	SHIPPING DEFAULT	RECOMMENDED PROGRAMMING*
4.2.2.1 Exit Time	8.6 Exit Delay	Required (Programmable)	45 sec. - 250 sec.	60 Seconds	60 Seconds
4.2.2.2 Progress Annunciation	13.13 Prewarn Address	Allowed	Individual keypads may be disabled per zone	All keypads enabled	All keypads enabled
4.2.2.3 Exit Time Restart	8.6 Exit Delay	Required Option	For re-entry during exit time	Enabled	Enabled
4.2.2.5 Auto Stay Arm on Unvacated Premises	8.15 Occupied Premise - See Install Guide	Required Option (except for remote arming)	Occupied Premise NO/ YES option	Enabled	Enabled Yes for Residential Applications
4.2.4.4 Exit Time and Progress Annunciation/ Disable - for Remote Arm	Not Available on Remote Arming	Allowed Option	Progress Annunciation Always disabled for Remote Arming	Not Available	Remote Arming not allowed for CP-01 installations.
4.2.3.1 Entry Delay(s)	8.5 Entry Delay	Required (Programmable) Only use Entry Delay 1. Do not use Entry Delay 2.	30 sec. - 240 Sec. **	30 Seconds	At least 30 Seconds **
4.2.5.1 Abort Window - for Non-Fire Zones	3.3 Transmit Delay	Required Option	Disable by zone or zone type	Enabled NT DY EX Zone	Enabled
4.2.5.1 Abort Window Time - for Non-Fire Zones	3.3 Transmit Delay	Required (Programmable)	20 sec., 30 sec., or 40 sec. **	30 Seconds	At least 20 Seconds **
4.2.5.1.2 Abort Annunciation	3.3 Transmit Delay	Required Option	Annunciate that no alarm was transmitted	Yes	Yes
4.2.5.4.1 Cancel Annunciation	Always Enabled - Not Programmable	Required Option	Annunciate that a Cancel was transmitted (S49)	Always Enabled	Yes
4.2.6.1 & 4.2.6.2 Duress Feature	User Code + 1 = Ambush Code Not Available	Allowed Option	No 1 + derivative of another user code/no duplicates with other user codes	Code +1 Always Disabled	Not Programmable
4.3.1 Cross Zoning	13.16 Cross Zone	Required Option	Yes/No Zone Programming	No	Enabled using two or more programmed zones
4.3.1 Programmable Cross Zoning Time	8.7 Cross Zone Time	Allowed	4 sec. - 250 sec.	0 Seconds	Per walk path in protected premises
4.3.2 Swinger Shutdown	Not Available – Always On	Required	1-6 trips	2 trips	2 trips
4.3.2 Swinger Shutdown Disable	13.12 Swinger Bypass	Allowed	For non-police response zones	Yes	Enabled (all zones)
4.3.3 Fire Alarm Verification	13.5 Zone Type	Required Option	FV Type Zone	No	Yes as required (unless sensors can self verify)
4.6.3 System Test	16.6 Walk Test	Allowed	Test all protection devices	N/A	N/A
4.6.5 Communications	16.6 Walk Test	Not Allowed	N/A	N/A	N/A
* Programming at installation may be subordinate to other listed requirements for the intended application.					
** For listed Installations, combined Entry Delay and Transmit Delay should not exceed 1 minute.					
Local Bell All non-fire zones such as Night, Day, Exit, Aux1 and Aux 2 must be programmed for local bell enabled with a bell cutoff time set to a minimum of 6 minutes to provide a cancel window of 5 minutes or greater. This does not apply to manually operated zone types such as Panic and Emergency. The requirements are superseded by any requirements for Commercial Burglar, Household Fire Warning, or Household Burglar applications.					
Minimum Installation Requirements: SIA CP-01-2010 minimum system installation requirements include an XTLN/XTLN-WiFi, an 1135 Wireless Siren, a 9000 Series Wireless keypad, and communication to an SCS-1R receiver.					

Revisions to This Document

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

Ver.	Section Number and Heading	Quick Explanation of Changes
1.02	Entire Document	Added references and information for XTLN-WiFi
1.01	Entire Document	Initial Release

Certifications

California State Fire Marshal (CSFM)

FCC Wireless Receiver Approvals

FCC Part 15 ID: CCKPC0117

Industry Canada ID: 5251A-PC0117

FCC WiFi Network Approvals

FCC ID: XM5-SM2144SMT

Industry Canada ID: 8516A-SM2144SMT

ANSI/UL 1023 Household Burglar

ANSI/UL 985 Household Fire Warning

ANSI/UL 1610 Central Station Burglar



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www.dmp.com

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