INSTALLATION GUIDE

XTLC PANEL

MODEL XTLC
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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1.1 Power Supply

Input: 12 VDC

Standby Battery: 3.7 VDC Lithium

All circuits inherent power limited.

1.2 Communication

The XTLC contains built-in Cellular communication to DMP Model SCS-1R or SCS-VR Receivers. Cellular Service is required before using the XTLC for signal transmission. The XTLC panel is ready for activation with SecureCom Wireless, LLC. More information is available at www.securecomwireless.com or see Cellular Activation in the XTLC Programming Guide (LT-1108).

1.3 Keypads

You can connect up to 4 alphanumeric 9000 Series wireless keypads.

1.4 Number of Zones

- XTLC 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 XTLC panel ships in a plastic enclosure with a user's guide and programming sheets.

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

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

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 survey capability for window applications.
1114 Four-Zone Expander*	Provides four wireless zones with EOL resisters.
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 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 wireless transmitter designed to be wall-mounted.
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)* 1144-1 (One-Button)*	Key Fob transmitters designed to clip onto a key ring or lanyard.
1148 Personal Pendant	Wireless emergency transmitter designed to be worn as a wristband or on a break-away 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.
9862 Wireless Graphic Touchscreen Keypad	Allows you to control the panel from various remote locations.
*** 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 XTLC 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 XTLC panel must be mounted using the provided #6 screws in the four mounting holes shown in Figure 1. 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.

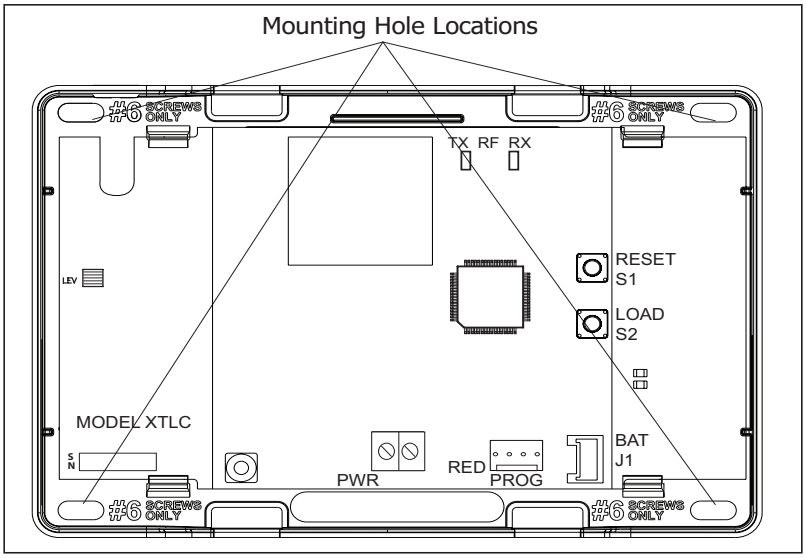

Figure 1: Mounting Hole Locations

Primary Power Supply

5.1 DC Input

Mount the XTLC panel near a wall outlet for the Model 372-500 plug-in DC power supply. In addition to powering the panel, the DC plug-in power supply 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 power supply:

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.

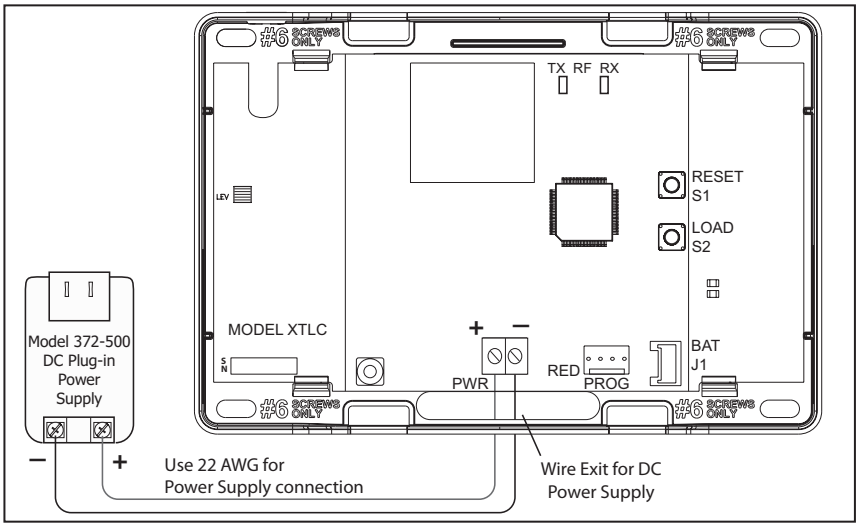

Figure 2: DC Power Supply Connection

Secondary Power Supply

6.1 Standby Battery

The XTLC 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 panel connector.

6.2 Replacement

Use the following steps to replace the panel standby battery. DMP recommends replacing the battery every 3 years under normal use.

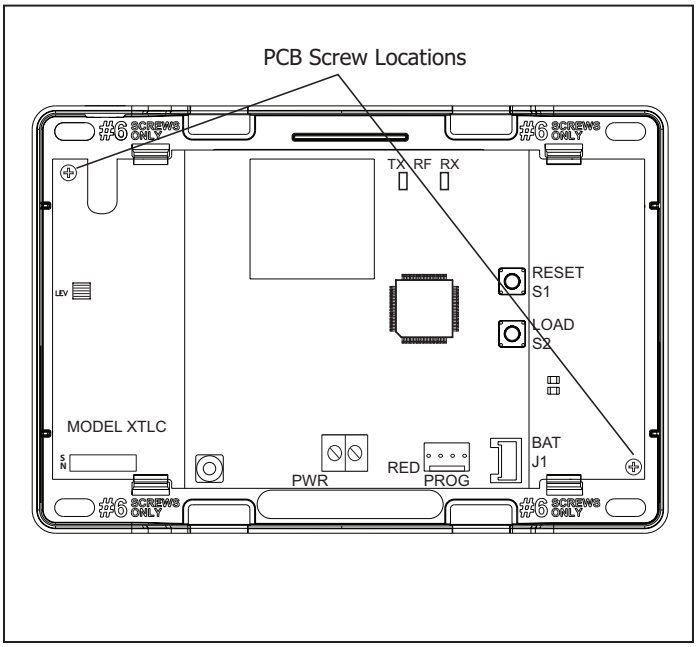

Figure 3: PCB Screw Locations

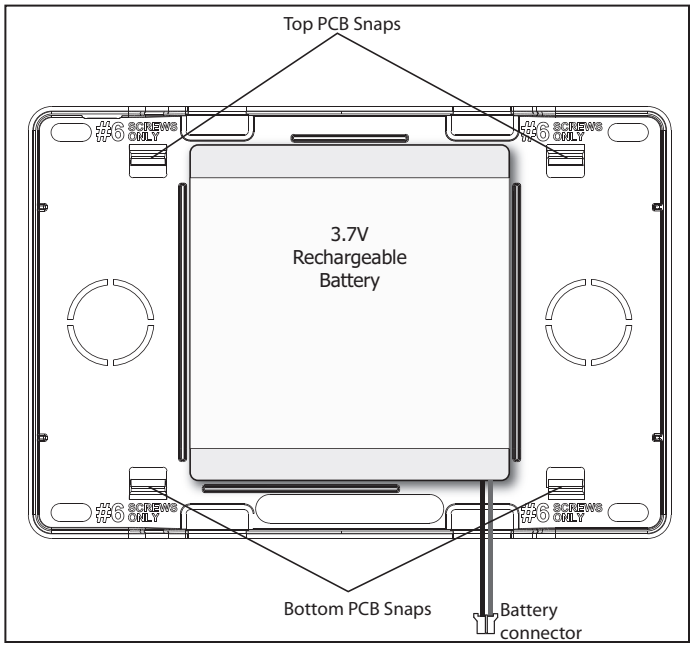

Figure 4: Standby Battery Replacement

1. Unplug the battery connector (BAT) from the panel.
2. If installed, remove the 2 screws 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 housing base with the battery wires directed toward the bottom right corner. See Figure 2.
7. Set the 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

RESET Button

8.1 Description

The RESET button is located on the right side of the circuit board and is used to reset the XTLC 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

9.1 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 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. The 738Z only operates when primary power is 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 XTLC.

On-Board 1100 Series Wireless

10.1 Wireless Antenna

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

10.2 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 XTLC 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

11.1 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.

11.2 Wireless Keypad Association

Enable Wireless Keypad Association operation on both 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.

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.

On either the LCD or Grapics Wireless keypad, enter the code 3577 (INST) at the keypad 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 association operation in the XTL Series panel, press the XTL Series RESET button three times allowing the wireless TRANSMIT LED (TX) located near the top of the PCB to begin flashing between each press. When in keypad association, the XTL Series Red and Green logo LEDs turn on steady.

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

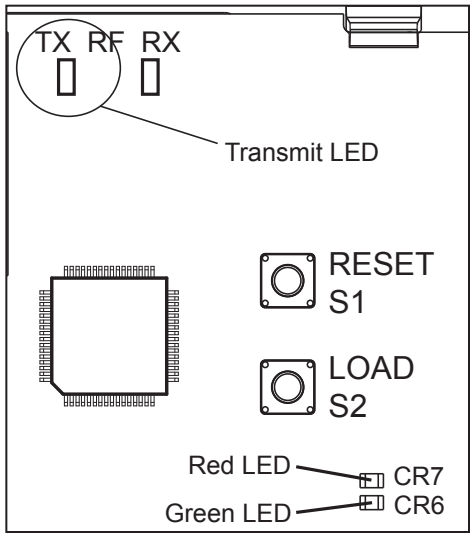

Figure 5: XTLC Transmit and Receive LEDs & Backlit Logo LEDs

NOTE: A maximum of four wireless keypads are allowed on each panel.

Wireless Zones

12.1 Description

XTLC panels provide 28 wireless zones numbered 1 to 28. A default zone name, zone type, and area assignment are described in the XTLC Programming Guide (LT-1108) 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

13.1 Description

XTLC 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 XTLC Programming Guide (LT-1108) and can be changed in Output Information or Zone Information programming as needed.

Flash LOAD Button

14.1 Description

The XTLC 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 XTLC 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.
4. 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.
5. The update will take approximately 4.5 minutes and when complete the LED on the Model 400 will display steady green.
6. 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

15.1 Introduction

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

15.2 Use Marking

Commercial Central Station, Household Burglar and Fire Control Unit.

15.3 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.

15.4 Types Of Service

Suitable for Central Station Cellular. Suitable for Household Fire and Household Burglary. Test weekly.

15.5 Bypass Reports

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

15.6 Battery Standby

The XTLC is shipped with a battery for 24 hour battery standby operation.

Household Burglar-Alarm System Units

ANSI/UL 1023

16.1 Bell Cutoff

The bell cutoff time cannot be less than 4 minutes.

16.2 Entry Delay

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

16.3 Exit Delay

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

16.4 Wireless External Contact

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

16.5 Wireless Supervision Time

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

16.6 Wireless Audible Annunciation

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

16.7 Panel location

Mount panel inside protected area.

16.8 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

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

Note: The SecureCom Wireless text plan selected for the panel should match or exceed the programmed Monthly Limit or additional cellular charges may apply.

17.2 Remote Disarm
REMOTE DISARM must be programmed as NO.

17.3 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

18.1 Bell Output Definition
The wireless siren of the XTLC panel must be programmed to operate steady on burglary alarms and temporal on fire alarms. See the XTLC Programming Guide (LT-1108).

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

18.3 Wireless Supervision Time
The Zone Information Supervision Time must be 3 minutes for fire devices. See the XTLC Programming Guide.

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

18.5 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-1108 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, Aux 1 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 XTLC, an 1135 Wireless Siren, a 9000 Series Wireless keypad, and communication to an SCS-1R receiver.

Revisions to This Document

Revisions

This section explains the changes that were made to this document during this revision. This section lists the version, section number with heading, and a quick summary of the change.

Ver.	Section Number and Heading	Summary of Changes
1.06	18.3 Wireless External Contact	Removed 1101, 1102, and 1105 section
1.05	Entire document	Added references to XTL/XTLC
	3.1 Accessory Devices	Added reference for 1135DB Siren
	9.1 Programming Connection	Added reference for Installing the 738Z
	18.5 Wired Modules	Added 738Z reference
1.04	3.1 Accessory Devices	Added reference for 1184 CO detector and 738Z module
1.03	3.1 Accessory Devices	Added references for 1183-135F and 183-135R
1.02	19.1 False Alarm Reduction	Updated for SIA CP-01-2010, 4.3.2 Swinger Shutdown range Added 4.3.1 Cross Zoning, 4.3.3 Fire Alarm Verification, 4.6.3 System Test, 4.6.5 Communication
1.01	2.3 Compliance Instruction	Added section
	3.1 Accessory Devices	Added reference to products not for use in listed installations, added 1161, 1162 Smoke Detectors
	4.2 Mounting the Enclosure	Added reference to minimum separation of panel/transmitters
	5.1 DC Input	Updated power circuit requirement on step 3
	6.2 Replacement	Added figure and reference to remove PCB screws if installed
	15.1 - 15.6 Listed Compliance	Added sections
	16.1 - 16.8 Household Burglar	Added sections
	17.1 - 17.3 Central Station	Added sections
	18.1 - 18.5 Household Fire	Added sections
	19.1 ANSI/SIA CP-01-2007	Added section
	Listings and Approvals	Added ETL and Underwriters Laboratories listings

Certifications

ANSI/SIA CP-01 False Alarm Reduction

ANSI/UL 1023 Household Burglar
ANSI/UL 985 Household Fire Warning
ANSI/UL 1610 Central Station Burglar (Cellular)
California State Fire Marshall (CSFM)
FCC Wireless Approvals
FCC Part 15 ID: CCKPC0117
Industry Canada ID: 5251A-PC0117
FCC Cellular Approvals for XTLC
Cellular FCC Part 15: MIVCNN0301
Cellular Industry Canada: 4160A-CNN0301

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