9000 Series Wireless Keypads

INSTALLATION AND PROGRAMMING GUIDE
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ABOUT THE KEYPAD

The 9060 and 9063 are fully functioning supervised wireless keypads. The wireless keypads provide installation flexibility while also offering codeless arming and disarming capabilities.

Each keypad provides:

• Custom 32-character full LCD display
• Three 2-button panic keys
• Backlit keyboard with easy-to-read lettering
• Internal speaker
• Wall tamper protection
• Keyboard backlighting that turns red in alarm conditions
• Wireless Encryption (Keypad Version 300 and higher, Panel Version 183 and higher)

The 9063 keypad also provides a built-in proximity card reader designed to read proximity credentials for codeless arming and disarming.

What is Included

• One wireless keypad mounted in a Thinline™ two-part housing (base and cover)
• One internal rechargeable 3.7 V lithium battery
• One 12 VDC DC Plug-in Power Supply
• Built-in proximity card reader (9063 only)
KEYPAD FEATURES

Select Keys

1  2  3  4

Keypad Display/Status List

Panic Keys

Command (CMD) Key

Back Arrow Key

1. Backlit Logo
2. Proximity Credential Reader (9063 only)

Figure 1: 9000 Series LCD Keypad
ENTER CHARACTERS

Enter Alpha Characters

To enter an alpha character, press the number key that has the desired letter below it. The keypad display shows the number on that key. To change the number to a letter, press the top row select key that corresponds to the letter location under the key. See Figure 2.

Enter Non-Alphanumeric Characters

Each key has a non-alpha special character that is not shown on the keypad. Non-alphanumeric characters are entered into the keypad the same way as alphanumeric characters. See Figure 3.
SYSTEM COMPONENTS

Card Reader

When a proximity credential is presented to the 9063 internal reader, located behind the backlit logo, a beep tone is emitted to provide an audible acknowledgment of the credential read.

2-Button Panic Keys

All keypads offer a panic key function that allows users to send panic, emergency, or fire reports to the central station in an emergency. Enable the panic key function in the keypad user menu. Place the supplied icon stickers below the top row select keys. The user must press and hold the two select keys for two seconds until a beep is heard.

- **Panic** (left two select keys)—Zone 19 + Device Address
- **Emergency Non-Medical** (center two select keys)—Zone 29 + Device Address
- **Fire** (right two select keys)—Zone 39 + Device Address

Internal Speaker Operation

All keypads emit standard tones for key presses, entry delay, and system alerts. The speaker also provides distinct burglary, fire, zone monitor, and prewarn cadences. The keypads provide an alternate prewarn with alarm cadence that occurs when the status list displays a zone alarm.
**Backlighting**

The keyboard lights when a key is pressed or the speaker sounds. During an alarm condition, the keyboard lighted area turns red. When all alarm conditions are cleared from the display, the red display turns off and the lighted area returns to the user-selected brightness.

**Backlit Logo**

The backlit logo indicates the armed status of the panel and the power and battery status of the keypad. Depending on the status, the LED displays in Red or Green. See Table 1

<table>
<thead>
<tr>
<th>COLOR AND ACTIVITY</th>
<th>ARMED STATUS</th>
<th>KEYPAD POWER STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Steady</td>
<td>Panel Disarmed</td>
<td>Primary Power OK, Battery OK</td>
</tr>
<tr>
<td>Green Blinking</td>
<td>Panel Disarmed</td>
<td>Primary Power OK, Battery Fault</td>
</tr>
<tr>
<td>No Light</td>
<td>Panel Disarmed</td>
<td>Primary Power Fault, Battery OK</td>
</tr>
<tr>
<td>Red Steady</td>
<td>Panel Armed</td>
<td>Primary Power OK, Battery OK</td>
</tr>
<tr>
<td>Red/Green Alternate</td>
<td>Panel Armed</td>
<td>Primary Power OK, Battery Fault</td>
</tr>
<tr>
<td>Red Blinking</td>
<td>Panel Armed</td>
<td>Primary Power Fault, Battery OK</td>
</tr>
</tbody>
</table>

**Table 1: Backlit Logo**
User Options Menu

To access the Options menu, press and hold the back arrow and CMD keys for 2 seconds.

Backlighting Brightness
Adjust the brightness, power and armed LEDs, green keyboard, and logo backlighting. At SET BRIGHTNESS, use the left and right select keys to adjust the brightness. The brightness reverts to maximum intensity whenever a key is pressed. If no keys are pressed and the speaker has not sounded for 10 seconds, the user-selected brightness restores.

Note: During primary power loss, the backlighting turns completely off after 10 seconds of no activity to conserve the standby battery.

Internal Speaker Tone
Adjust the keypad internal speaker tone. At SET TONE, use the left and right select keys to decrease and increase the tone.

Internal Volume Level
Adjust the keypad internal speaker volume for key presses and entry delay tone conditions. During alarm and trouble conditions, the volume is always at maximum level. At SET VOLUME LEVEL, use the left and right select keys to adjust the volume.

Model Number
Display the keypad model number, firmware version, and date.

Serial Number Display
Display the keypad serial number.
PROGRAM THE KEYPAD

The keypads can be programmed into the control panel by entering the serial number in Device Setup or using the wireless keypad association operation. A maximum of 4 keypads may be used with the XT30/XT50 panel, 7 keypads with XR150/XR550 panels using Version 191 software or higher, and 7 keypads with XTLplus/XTLtouch panels.

Device Setup Programming
Program the keypad as a device in Device Setup during panel programming. At the serial number prompt, enter the 8-digit serial number. Continue to program the device as directed in the panel programming guide.

Note: If the keypad serial number is entered manually, the Wireless Keypad Association operation is not required.
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 and select RF Survey. The keypad logo LEDs turn red until association is successful.
To enable association operation in XR150/XR550, XT30/XT50, and XTLplus/XTLtouch panels, reset the panel 3 times within 12 seconds. Allow the keypad bus Transmit/Receive LEDs to turn back on between each reset.
For 60 seconds, the panel listens for wireless keypads that are in the Installer Options Menu and have not been programmed, or associated into another panel. Those 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.

Selecting the Proper Location
9000 Series keypads provide a built-in survey capability in the Installer Options menu to allow one person to confirm keypad communication with the panel. For more information, see “Keypad Wireless Survey”.
INSTALL THE KEYPAD

All DMP keypad housings are designed to easily install on any desk stand, 4” plastic square box, 3-gang plastic switch box, or a flat surface. Do not install the keypad near any metal objects.

1 *Remove the Cover*

The keypad housing is made up of two parts: the cover, which contains the circuit board and components, and the base.

To separate the keypad cover from the base, insert a flathead screwdriver into one of the slots on the bottom of the keypad and gently lift the screwdriver upward. Repeat with the other slot. Gently separate the cover from the base and set the cover containing the keypad components aside. See Figure 4

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**Figure 4:** Separate the Keypad Housing
2 **Mount the Keypad**

Secure the keypad to the wall ensuring that the wall tamper switch makes proper contact with the wall. Use the supplied screws in the mounting hole locations. See Figure 5.

![Diagram of Keypad Mounting Holes](image-url)

**Figure 5: Mounting Holes on Keypad Back**
3 Power the Keypad

Primary DC Power Supply
Locate the keypad near a wall outlet to allow connection of the Model 371-500 plug-in DC power supply. See Figure 6 for a diagram of the DC power supply connector. In addition to powering the keypad, the power supply also charges the internal back-up battery. The plug-in power supply includes a six foot cord. The cord can be lengthened but should be located within 100 feet of the keypad using 22 AWG wire.

Caution: Observe polarity when extending the power supply cord.

When the power supply connector is plugged into the keypad, the internal battery is automatically connected. The keypad can operate from battery only as long as the power supply connector is plugged into the keypad.

Standby Battery
The keypad rechargeable battery provides 24 hours of backup battery power when primary DC power is unavailable. It is shipped already installed inside the keypad. The battery is intended for backup power only and not to operate the keypad on a daily basis. If the battery is low, or not plugged into the internal battery connector, a low battery condition is indicated by the panel when the battery falls below 3.62 VDC. To restore the keypad from a low battery state, the voltage must be above 3.62 VDC.
PROGRAM THE PANEL

To access the Programmer menu, reset the panel, press Keypad in the carousel menu, enter 6653 (PROG), then press CMD.

After completing each of the following steps, press CMD to advance to the next option. Refer to the panel programming guide as needed.

Device Setup
Advance to DEVICE SETUP, then press a select area to enter the setup menu.

Device Number
Set the keypad address at 1-16 for XR550 Series panels or 1-8 for other compatible panels.

Device Name
Press any select area, then enter a name for the wireless keypad.
Device Type
For use as a standard keypad, select KPD. For use as an access control keypad, press any select area, then select DOOR.

Communication Type (Door)
Press any select area, then select WLS (Wireless) as the communication type.

Serial Number
Enter the eight-digit wireless serial number. Range is 14500000-14999999.

Supervision Time
Press any select area and choose a supervision time. Options are 0, 60, or 240 minutes.

Configure additional options as needed. To configure custom card options for the keypad, do not program CARD OPTIONS in Device Setup.
PROGRAM THE KEYPAD OPTIONS

Keypad Options and Keypad Diagnostic menus allow install and service technicians to configure and test keypad operation. To access the installer options:

Hold down the back arrow and CMD keys for two seconds. Enter 3577 (INST) and press CMD.

The display changes to KPD OPT (keypad options), KPD DIAG (keypad diagnostics), KPD RF (wireless survey), and STOP.

The Keypad Options menu allows you to set the default keypad message, enable 2-button Panic keys, and additional options.

The keypad must be operating anywhere in the Installer Options menu, 3577 (INST), to be automatically associated by the control panel receiver. To place the keypad into the association operation, first remove the power connector from the back of the keypad. Then reapply power and access the Installer Options menu. See “Keypad Wireless Survey” for more information.

Keypad Options

To program keypad options, press KPD OPT.

Serial Number

The keypad displays the serial number of the keypad.
**Default Keypad Message**
Enter a custom message of up to 16 characters to appear at the top of the keypad display. Press any select key, enter a new message, and press CMD.

**Arm Panic Keys**
Use this option to configure the select keys as two-button panic keys. To enable or disable a panic option, press the select key under the desired name: **PN** (panic), **EM** (emergency), and **FI** (fire). Press the select key again to disable the panic option. Once the panic option is enabled, an asterisk displays next to the selected option(s).

**ALL? NO YES (9063 only)**
Select the number of seconds (1-9) the keypad should wait when an area system displays ALL? NO YES during arming/disarming or a HOME/SLEEP/AWAY system waits during arming only. If NO or YES, or HOME, SLEEP, or AWAY is not manually selected before the delay expires, the keypad automatically selects YES or AWAY. Select zero (0) to disable this feature. The delay also occurs when any credential is presented for arming the Home/Sleep/Away system. Default is 2.

**Enable Tamper?**
Select YES to enable wall tamper protection. Default is NO.
**CUSTOM CARD FORMAT**

**Card Formats**
Select **DMP** to allow credentials that use a 26-45 bit data string. The menu advances to **REQUIRE SITE**.

Select **CUSTOM** to disable DMP format and program slots 1-8 as needed. The menu advances to **FORMAT NO**.

Select **ANY** to allow all Wiegand card reads to activate the door strike relay. The door strike relay is activated for the length of time programmed in **ZN 3 REX TIME**. No user code information is sent to the panel. The menu advances to **NO COMM WITH PNL**.

The default card format is **DMP**.
Card Format Number
Select the slot number (1-8) that you want to program for a custom non-DMP card format. The format that is programmed into slot 1 is the default format. In the event that a card with an unrecognized format is used, that card will be read in the format that is programmed in slot 1. To restrict card reads to specific formats, only program slots 2-8.

See Public Card Formats for some publicly available card formats that can be used with the keypad. Other private or custom formats may also be compatible. Please contact the credential supplier or manufacturer for the bit structure.

Note: If you select slot 1 and you are upgrading from XR panel version 182 or earlier, FORMAT NAME will automatically be named SINGLE CARD FORMAT and WIEGAND CODE LENGTH will default to 45.

Format Name
Press any select area to rename the card format. Press CMD to save and advance.
**Wiegand Code Length**

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

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

An access card contains data bits for a site code, user code, and start/stop/parity bits. The starting position, location, and code length must be determined and programmed into the keypad. See Figure 7.

**Example:** Wiegand Code Length = 26 bits

**Figure 7:** Wiegand Data Stream Bit Location
Site Code Position and Length
Enter the site code start position and length in the data string. Press select area 2 to clear the site code start position and enter a number between 0-255. Press CMD to save. Default is 1.

Press select area 4 to clear the site code length and enter a number between 1-24. Press CMD to save. Default is 8.

User Code Position and Length
Define the user code start bit position and length. Press select area 2 to clear the user code position and enter a number between 0-255. Press CMD to save. Default is 9.

Press select area 4 to clear the user code length and enter a number between 16-64. Press CMD to save. The default is the DMP value of 16.
Require Site Code
Press the top row select key or area under YES to use a site code and press CMD to view the site code entry display. Press NO to advance to NO OF USER CODE DIGITS. Default is NO.

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

Site Code Display
You can program up to eight 8-digit site codes. The site code range is 0-16,777,214.

In the keypad display, enter site code 1 and press CMD. The display will ask for site code 2 followed by site code 3 and so on. When you have selected the site code you want to change, press CMD.
Number of User Code Digits

The keypad recognizes user codes from 4-10 digits long. Press any top row select key or area to enter a user code digit length. This number must match the user code number length being programmed in the panel. The device will recommend a number of user code digits based on the user code length. Default is 5.

All bits are read and converted into a decimal number string. The number string is left padded with 0 (zero) if needed for long user code lengths.

**Example:**

<table>
<thead>
<tr>
<th></th>
<th># decoded</th>
<th>1234567</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 digits</td>
<td>0001234567</td>
<td></td>
</tr>
<tr>
<td>4 digits</td>
<td>4567</td>
<td></td>
</tr>
</tbody>
</table>
No Communication with Panel
Define the relay action when communication with the panel has not occurred for 5 seconds. Default is OFF. Press any select key or area to change the default relay action:

Press the first select key or area to choose OFF (Relay Always Off). The relay does not turn on when any Wiegand string is received. OFF does not affect any REX operation. If communication is lost during a door strike, the relay remains on for the door strike duration but turns off at the end of the door strike timer.

Press the second select key or area to choose SITE (Accept Site Code). Door access is granted when the Wiegand site code string received matches any site code programmed at SITE CODE DISPLAY. Refer to REQUIRE SITE CODE for more information.

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

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

Press the first select key or area to choose LAST (Keep Last State). The relay remains in the same state and does not change when communication is lost.
Additional Programming (9063 only)

9063 keypads allow users to present a proximity credential to the built-in proximity reader. Users can also manually enter their user code into the keypad. The keypad verifies the user code and its authority with the panel.

Proximity Credential Compatibility

DMP keypads with internal proximity readers are compatible with most standard 125 kHz proximity credentials. For a list of publicly supported card formats, see Public Card Formats.

**Note**: Some proximity credentials are not compatible with DMP proximity keypads. Test the intended proximity credentials with the application before installation. DMP does not guarantee compatibility with credentials not purchased from DMP.

Program a Credential

1. Access the User Menu by pressing **CMD** until **MENU? NO YES** displays. Choose **YES**, and present your proximity credential to the reader or manually enter your user code at the keypad.

2. Press **CMD** until **USER CODES?** displays.

3. Press any select key. Choose **ADD**.

4. At **ENTER CODE: -**, present the credential to the reader. The keypad works by reading the user code from the data string sent by the access control reader.
TEST THE KEYPAD

Test the keypad to ensure alarm backlighting, individual shortcut keys, and any programmed zones work. To begin testing, access the Installer Options menu. Hold down the back arrow and CMD keys at the same time until SET BRIGHTNESS displays. Enter 3577 and press CMD.

Keypad Diagnostics
Press the select key under KPD DIAG. The keypad lights all display segments and illuminates the keyboard in red. The display backlighting then changes to green. The keypad alternates between these two states for approximately two minutes. Press CMD at any time to begin testing individual keys.

Test Individual Keys
The display changes to PRESS KEY TO TEST. This option tests each key on the keyboard to ensure it is operating properly. Press and hold each key for two seconds. The key number being held appears in the display. Verify the correct number displays before testing the next key.
Zone Test (9063 only)
This option allows the keypads to display the current electrical status of the four protection zones. The status is shown as OPEN, SHRT, or OKAY. The zone test displays on the other keypads but is not operational.

Input Wiegand (9063 only)
This option tests the internal reader input from proximity credentials. The display shows OKAY each time a good proximity read is received.

Keypad Wireless Survey
Press the select key under KPD RF to start the RF communication survey test. The keypad logo turns red indicating communication has not been established with the panel receiver. When successful communication has been established, the keypad logo turns green.

RF Survey
Use RF SURVEY during the keypad association programming by the control panel. The backlit logo turns green to indicate that it has been associated by the panel.

Exiting the Installer Options
When done, press CMD once to return to the Installer Options screen. Press the select key under STOP to exit the Installer Options function.
This section covers:

- Keypad Arming and Disarming
- Keypad Entry Delay

All of the examples displayed assume that CLOSING CODE is YES in panel programming.
Keypad Arming and Disarming

Area System Arming and Disarming

1. Press CMD until the keypad displays ARM DISARM.
2. Press the select key under the preferred option.
3. The keypad displays ENTER CODE: -. Present your card to the reader.

Once validated by the system, all areas assigned to that code arm or disarm automatically. See Figure 8

Select NO to arm or disarm individual areas. Select YES, or simply wait, to automatically arm or disarm all areas for which you are authorized.

Figure 8: Area Arming and Disarming
All/Perimeter System Arming and Disarming

- If no user code is required to arm: Present your card to the reader or press CMD until PERIM ALL displays. Press the select key under the preferred option. Type in your user code to disarm the system.
- If a user code is required to arm: Enter your user code. Press the select key under the preferred option. Type in your user code to disarm the system.

Once validated by the system, the selected areas arm or disarm automatically.

Home/Away System Arming and Disarming

Present your card to the reader. If the system is armed, once the card is validated, all areas are disarmed and the keypad displays ALL SYSTEM OFF.

If the system is disarmed when you present your card, once the card is validated, HOME SLEEP AWAY displays. Manually select HOME, SLEEP, AWAY or after a short time-out, all areas automatically arm in the AWAY mode.
**Keypad Entry Delay**

**All Systems**
Once the entry delay starts, the keypad sounds an entry tone and displays **ENTER CODE: -**. Present your card to the reader. Once validated by the system, all areas assigned to your user code arm or disarm automatically. See Figure 9.

Entry delay starts.
The system disarms the areas to which you are authorized.

**Figure 9: Entry Delay**
Replace the Battery

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

Remove the Keypad PCB
1. Disconnect the power supply connector from the back of the keypad.
2. Loosen the top PCB snaps. See Figure 10.
3. Lean the keypad backwards and lift out from the bottom PCB snaps.

Battery Replacement
1. Disconnect the battery lead connector from the keypad battery header.
2. Remove the standby battery from the PCB.
3. Observe polarity and connect the battery lead connector to the keypad battery header.
4. Using double-sided tape, place the new battery on the keypad PCB.
5. Properly dispose of the used battery.

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

Install the Keypad PCB
1. Set the PCB into the bottom snaps with the elastomer keyboard already in place. See Figure 10
2. Line up the PCB alignment post with the hole in the PCB.
3. Press the PCB into the top PCB snaps to secure in place.
4. Replace the base.
Figure 10: PCB Snaps
Figure 11: Battery Replacement
# PUBLIC CARD FORMATS

<table>
<thead>
<tr>
<th>CARD FORMAT</th>
<th>WIEGAND CODE LENGTH</th>
<th>SITE CODE POSITION</th>
<th>SITE CODE LENGTH</th>
<th>USER CODE POSITION</th>
<th>USER CODE LENGTH</th>
<th>USER CODE DIGITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>H10301 26 BIT</td>
<td>26</td>
<td>1</td>
<td>8</td>
<td>9</td>
<td>16</td>
<td>5</td>
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<tr>
<td>H10302 37 BIT W/O FAC</td>
<td>37</td>
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<td>35</td>
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<td>H10304 37 BIT W/FAC</td>
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<td>FARPOINTE 39 BIT</td>
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<td>CORPORATE 1000 48 BIT</td>
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# CREDENTIALS

<table>
<thead>
<tr>
<th>125 kHz PROXIMITY CREDENTIALS</th>
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<tbody>
<tr>
<td>PSC-1</td>
</tr>
<tr>
<td>PSK-3</td>
</tr>
<tr>
<td>PSM-2P</td>
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<td>1306</td>
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ORDERING INFORMATION

Keypads

9060-W  Wireless Thinline Keypad (white)
9060-W/699 Wireless Thinline Keypad with Deskstand (white)
9063-W  Wireless Thinline Keypad with Prox Reader (white)
9063-W/699 Wireless Thinline Keypad with Prox Reader and Deskstand (white)
Accessories

371-500  12 VDC Plug-in Power Supply  
694-W  Metal Keypad Backplate (white)  
695-B  Keypad Conduit Backbox (black, metal, 1.5” deep)  
695-W  Keypad Conduit Backbox (white, metal, 1.5” deep)  
695-I  Keypad Conduit Backbox (ivory, metal, 1.5” deep)  
696-B  Keypad Backbox (black, metal, 0.5” deep)  
696-W  Keypad Backbox (white, metal, 0.5” deep)  
696-I  Keypad Backbox (ivory, metal, 0.5” deep)  
697  Keypad Backplate (plastic, 9” x 9”)  
698  Keypad Backplate (plastic, 7.4” x 11”)  
699  Keypad Deskstand (smoked plexiglass)  
699-W  Keypad Deskstand (white steel)  
777  Protective Keypad Cover

Batteries

9000BAT/8  Replacement Standby Battery (8 pack)
COMPLIANCE SPECIFICATIONS

Commercial Burglary
Set the Enable Tamper option to YES for all listed commercial burglary applications.
Use DMP proximity cards only for listed applications.

Specifications

Operating Voltage  12 VDC, 500 mA
Standby Battery   9000BAT
  Voltage         3.7 VDC
  Capacity        800 Ah
  Type            Lithium Polymer Rechargeable
  Standby Time    24 Hours
Frequency Range  905-924 MHz
Dimensions       7.00” W x 5.25” H x 0.50” D
Color:           White
Housing Material Flame Retardant ABS

Compatibility
All 9000 Series keypads are compatible with all DMP panels and 1100 Series Wireless Receivers.

Patents
U.S. Patent No. 7,239,236
CERTIFICATIONS

ANSI/SIA CP-01-2010 False Alarm Reduction

FCC Part 15 RFID Reader FCC ID: CCKPC0126

Industry Canada: 5251A-PC0126

Underwriters Laboratory (UL) Listed

- ANSI/UL 1023   Household Burglar Alarm System Units
- ANSI/UL 1610   Central Station Burglar Alarm Units
- ANSI/UL 985   Household Fire Warning System
FCC INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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

Note: 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.
INDUSTRY CANADA INFORMATION

This device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General Population limits.

L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de 7.87 pouces (20 cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public.