**PROGRAM THE PANEL**
Refer to the panel programming guide as needed.
1. Reset the panel.
2. At a keypad, enter 6653 (PROG) to access the PROGRAMMER menu.
3. In SYSTEM OPTIONS, program a HOUSE CODE between 1 and 50. See House Code Explained for more information.
4. (1100XHE only) At the 1100 ENCRYPTION prompt, select ALL to only add encrypted wireless devices to the system. Select BOTH to allow both encrypted and non-encrypted wireless devices to be programmed.
5. (1100XHE only) The default passphrase appears at ENTER PASSPHRASE. Press CMD to keep the default. Press any select key or area to change the passphrase and enter an 8-character hexadecimal string (0-9, A-F).

**SELECT A LOCATION**
When selecting a location to mount the 1100XH, keep in mind that the receiver should be centrally located between the 1100 Series transmitters used in the installation. The 1100XH can be mounted up to 500 ft (150 m) from the panel using 22 AWG or 1000 ft (300 m) using 18 AWG. Be sure to mount the receiver away from large metal objects because it may impair the receiver’s performance. Do not use shielded wire between the panel and receiver.

**MOUNT THE 1100XH**
1. Remove the cover from the plastic housing.
2. Use the included #6 screws to secure the 1100XH to the wall. See Figure 2 for mounting hole locations.
3. Use one of the provided screws to anchor the housing in the wall tamper screw hole. See Figure 2 for tamper location.

---

**DESCRIPTION**
The 1100XH Series High Power Wireless Receiver provides up to 100 wireless zones for XR150 Series panels and up to 500 wireless zones for XR550 Series panels. The 1100XHE features 128-bit AES encryption.

The 1100XH provides two-way, supervised communication using 900 MHz frequency hopping-spread-spectrum technology.

The 1100XH contains additional transmit and receive amplifiers to enable 1100 Series operation at greater distances or harsh building environments. The additional gain introduced by this amplification may inhibit proper communication with 1100 Series transmitters located within 4 ft of the receiver. This distance may be 8 ft when using the 1122 PIR or 9000 Series Wireless Keypads.

The 1100XH is equipped with a case and wall tamper.

**Compatibility**
- XR150/XR550 Series Panels
- Encryption requires panel Version 183 or higher

**What is Included?**
- 1100XH Series High Power Wireless Receiver
- Model 300 Harness
- Hardware Pack
**WIRE THE 1100XH**

Connect the red, yellow, green, and black wires to the **PANEL** terminal on the 1100XH and connect the other to the **XBUS** terminal on the panel. See Figure 3.

*Note:* The receiver can’t operate if it’s connected to the keypad bus.

![Diagram of wiring](image)

**ADDITIONAL INFORMATION**

**1100XH LED Operation**

The six labeled LEDs on the 1100XH PCB display wireless receiver operation and activity. See Figure 3 for LED locations and Table 1 for LED indications.

**House Code Explained**

The house code identifies the panel, receiver, and transmitters to each other. The 1100XH automatically sends the specified house code to wireless transmitters when transmitter serial numbers are programmed into the panel. The 1100XH only listens for transmissions using the specified house code or the programmed transmitters’ serial numbers.

**LED Survey Operation for 1100 Series Transmitters**

1100 Series transmitters provide a survey operation that allows one person to confirm that each transmitter is communicating with the wireless receiver or panel to easily determine the best location. Follow the directions below to test communication of the wireless transmitters:

1. Remove the transmitter’s cover.
2. Hold the transmitter in the exact desired location.
3. Press the tamper switch to send data to the wireless receiver and determine if communication is confirmed or faulty.

  ✔ **Confirmed:** If communication is confirmed, the survey LED turns on when data is sent to the wireless receiver and off when acknowledgment is received.

  ✗ **Faulty:** If communication is faulty, the LED remains on for several seconds or flashes multiple times in quick succession. Relocate the transmitter or the wireless receiver until the LED confirms clear communication.

  Proper communication between the transmitter and wireless receiver is verified when for each press or release of the tamper switch, the transmitter’s LED blinks immediately on and immediately off.

**Programming Zones**

Refer to the panel XR150/XR550 Series Programming Guide (LT-1232) for complete wireless programming information. When any wireless input zone for a particular address is programmed, the 1100XH responds to the panel for this address. Other devices, such as keypads or hardwired zone expanders, cannot use this address. Zones connected directly to the panel cannot be wireless. See Table 2 for designated zone numbers.

<table>
<thead>
<tr>
<th>ZONE NUMBERS</th>
<th>DESIGNATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-449</td>
<td>1144 Wireless Key Fobs</td>
</tr>
<tr>
<td>450-479</td>
<td>Slow Response Outputs (15 sec.)</td>
</tr>
<tr>
<td>480-499</td>
<td>Fast Response Outputs (1 sec.)</td>
</tr>
<tr>
<td>500-599</td>
<td>Wireless Devices (XR150)</td>
</tr>
<tr>
<td>500-999</td>
<td>Wireless Devices (XR550)</td>
</tr>
</tbody>
</table>

Table 2: Zone Number Designations
**Transmitter Supervision Time**

For listed installations, program the transmitter supervision time in panel zone programming as listed in the following table. Refer to the panel programming guide for complete wireless programming information.

<table>
<thead>
<tr>
<th>UL Listing</th>
<th>Listed Accessories</th>
<th>Supervision Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL 268 Smoke-Automatic Fire Detectors</td>
<td>1100R Repeater, 1164 Wireless Synchronized Smoke Detector, 1168 Wireless Smoke/CO/Low Temp Detector</td>
<td>3</td>
</tr>
<tr>
<td>UL 365 Police Station Connected Burglar Accessory</td>
<td>1100R Repeater, 1103 Universal Transmitter</td>
<td>60</td>
</tr>
<tr>
<td>UL 609 Local Burglar Alarm Units and System Accessory</td>
<td>1100R Repeater, 1103 Universal Transmitter</td>
<td>60</td>
</tr>
<tr>
<td>UL 634 Connections and Switches for use with Burglar Alarm Systems Accessory</td>
<td>1100R Repeater, 1101, 1102, 1103, 1106 Universal Transmitters</td>
<td>60</td>
</tr>
<tr>
<td>UL 636 Holdup Alarm Units and Systems Accessory</td>
<td>1142 Two-Button Holdup Transmitter</td>
<td>60</td>
</tr>
<tr>
<td>UL 639 Intrusion Detection Units Accessory</td>
<td>1100R Repeater, 1127W, 1127C PIR Motion Detectors</td>
<td>60</td>
</tr>
<tr>
<td>UL 864 Fire Protective Signaling Systems</td>
<td>1100R Repeater, 1103 Universal Transmitter</td>
<td>3</td>
</tr>
<tr>
<td>UL 985 Household Fire Warning System Accessory</td>
<td>1100R Repeater, 1135 Wireless Sounder, 9060, 9063 Wireless Keypads, 9862 Graphic Keypad</td>
<td>240</td>
</tr>
<tr>
<td>UL 1023 Household Burglary System Units Accessory</td>
<td>1100R Repeater, 1101, 1102, 1103, 1106 Universal Transmitters, 1127W, 1127C PIR Motion Detectors, 1135 Wireless Sounder, 1142 Two-Button Holdup Transmitter, 9060, 9063 Wireless Keypads, 9862 Wireless Graphic Touchscreen Keypad</td>
<td>60</td>
</tr>
<tr>
<td>UL 1076 Proprietary Burglar Alarm Units Accessory</td>
<td>1100R Repeater, 1103 Universal Transmitter, 9862 Wireless Graphic Touchscreen Keypad</td>
<td>60</td>
</tr>
<tr>
<td>UL 1610 Central Station Burglar Alarm Units Accessory</td>
<td>1100R Repeater, 1103 Universal Transmitter, 1135 Wireless Sounder, 9060, 9063 Wireless Keypads, 9862 Wireless Graphic Touchscreen Keypad</td>
<td>60</td>
</tr>
<tr>
<td>UL 2075 Gas and Vapor Detectors and Sensors</td>
<td>1168 Wireless Smoke/CO/Low Temp Detector, 1184 Wireless Carbon Monoxide Detector</td>
<td>240</td>
</tr>
</tbody>
</table>

Table 3: Wireless Transmitter Supervision Times

**LISTED COMPLIANCE SPECIFICATIONS**

For applications that must conform to a National Recognized Testing Laboratory certified system, read the information below for additional information.

**Commercial Fire**

Transmitters must be programmed as supervised. Refer to Table 3 for specific supervision times. The maximum line impedance of the 4-wire bus is 16.2 Ohms for 1,000 feet (305 meters). The recommended wire gauge for panel to receiver connection is 22 AWG.

After all transmitters are in position, the WLS option of the panel’s Walk Test must be operated and all transmitters programmed for Fire (FI) or Supervisory (SV) must show that their check-in message was received. Refer to the panel programming guide for Trip Counter for DMP Wireless Check-in Test (WLS) which describes that both numbers of the counter must match. If not and a failed wireless zone is displayed at END, decrease that transmitter’s range with the receiver and perform the Wireless Walk Test again.
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.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20cm (7.874 in.) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

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:

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

Industry Canada Information
This device complies with Industry Canada Licence-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.

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.

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.

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.

1100XH SERIES
HIGH POWER WIRELESS RECEIVER

Specifications
Operating Voltage 12 VDC Nominal
Current Draw 75 mA (average), 102 mA (peak)
Frequency Range 905-924 MHz
Housing Dimensions 5.5”W x 3.75”L x 1”H
Housing Color White
Housing Material Flame Retardant ABS

Patents
U.S. Patent Number 7,239,236

Certifications
California State Fire Marshal (CSFM)
New York City 1100 Series Wireless (FDNY COA #6167)
FCC Part 15: CCKPC0114R6
Industry Canada: 5251A-PC0114R6
Underwriters Laboratory (UL) Listed
ANSI/UL 365 Police Station Connected Burglar
ANSI/UL 609 Local Burglar Alarm Unites and Systems
ANSI/UL 634 Connections and Switches for use with Burglar Alarm Systems Accessory
ANSI/UL 636 Holdup Alarm Units and Systems
ANSI/UL 639 Intrusion Detections Units Accessory
ANSI/UL 1023 Household Burglar Alarm System Units
ANSI/UL 1076 Proprietary Burglar Alarm Units
ANSI/UL 1610 Central Station Burglar Alarm Units
ANSI/UL 864 Fire Protective Signaling Systems
ANSI/UL 985 Household Fire Warning System

Designed, engineered, and manufactured in Springfield, MO using U.S. and global components.

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