1100XH HIGH POWER WIRELESS RECEIVER

Installation Guide

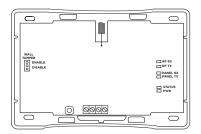


Figure 1: 1100XH High Power Wireless Receiver

DESCRIPTION

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

The 1100XH High Power Wireless Receiver contains additional transmit and receiver amplifiers to enable greater distances for 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 feet of the receiver. This distance may be 8 feet when using the 1121 PIR or 9000 Series Wireless Keypads.

The 1100XH can be mounted up to 1,000 feet (305 meters) from the panel enclosure and is equipped with a case and wall tamper.

Compatibility

DMP XR150/XR550 Series Panels

What is Included?

- One 1100XH High Power Wireless Receiver
- 4-Wire Harness
- Hardware Pack



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. In **ZONE INFORMATION**, enter a **ZONE NAME** and press **CMD**
- 5. Select the **ZONE TYPE** and press **CMD**.
- 6. At NEXT ZN?, select NO.
- 7. Select YES when WIRELESS? displays.
- 8. Enter the eight-digit SERIAL# and press CMD.
- 9. Enter the **SUPRVSN TIME** and press **CMD**.
- At the NEXT ZN? prompt, select YES to finish programming or select NO for additional programming options.

MOUNT THE 1100XH

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 and no more than 1,000 feet (305 meters) away from the panel. Be sure to mount the receiver away from large metal objects because it may impair the receiver's performance. Also, be sure to not use shielded wire between the panel and receiver.

Mount the 1100XH

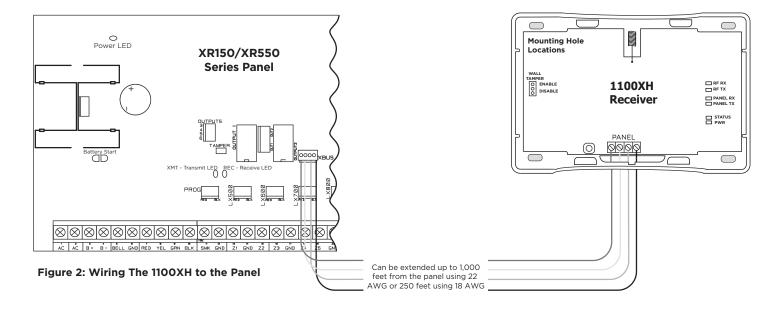
- 1. Remove the cover from the plastic housing.
- 2. Use the included #6 screws to secure the 1100XH to the wall. See Figure 2 for mounting hole locations.

WIRE THE 1100XH

The 1100XH interfaces with the panel uisng the on-board X-Bus connection. 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 2.

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

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ADDITIONAL INFORMATION

1100XH LED Operation

The six labeled LEDs on the 1100XH PCB display wireless receiver operation and activity. See Figure 2 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 in to the panel. The 1100XH only listens for transmissions using the specified house code or the programmed transmitters' serial numbers.

| LED | INDICATIONS |
|----------|--|
| RF RX | Flashes yellow to indicate data is being received from a transmitter. |
| RF TX | Flashes green to indicate data is being sent to a transmitter. |
| PANEL RX | Flashes yellow to indicate data is being receiver from a panel. |
| PANEL TX | Flashes green to indicate data is being sent to the panel. |
| STATUS | Solid red to indicate memory is being uploaded. Turns off when complete. |
| PWR | Solid green to indicate there is power to the wireless receiver. |

Table 1: 1100XH LED Indications

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 for the transmitters and the wireless receiver. Follow the directions below to test communication of the wireless transmitters:

- Remove the transmitter's cover.
- Hold the transmitter in the exact desired location.
- 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.

| ZONE NUMBERS | DESIGNATIONS |
|--------------|---------------------------------|
| 400-449 | 1144 Wireless Key Fobs |
| 450-479 | Slow Response Outputs (15 sec.) |
| 480-499 | Fast Response Outputs (1 sec.) |
| 500-599 | Wireless Devices (XR150) |
| 500-999 | Wireless Devices (XR550) |

Table 2: Zone Number Designations

Transmitter Supervision Time

For UL 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.

| UL Listing | Listed Accessories | Supervision Time |
|---|--|------------------|
| UL 268 Smoke-Automatic Fire Detectors | 1100R Repeater1164 Wireless Synchronized Smoke Detector | 3 |
| UL 365 Police Station Connected Burglar Accessory | 1100R Repeater 1103 Universal Transmitter | 60 |
| UL 521 Heat Detectors for Fire Protective Signaling Systems | 1100R Repeater1183-135F, 1183-1353R Heat Detector | 3 |
| UL 609 Local Burglar Alarm Units and System Accessory | 1100R Repeater1103 Universal Transmitter | 60 |
| UL 634 Connections and Switches for use with Burglar Alarm Systems Accessory | 1100R Repeater1101, 1102, 1103, 1106 Universal Transmitters | 60 |
| UL 636 Holdup Alarm Units and Systems Accessory | 1142 Two-Button Holdup Transmitter | 60 |
| UL 639 Intrusion Detection Units Accessory | 1100R Repeater1127W, 1127C PIR Motion Detectors | 60 |
| UL 864 Fire Protective Signaling Systems | 1100R Repeater1103 Universal Transmitter | 3 |
| UL 985 Household Fire Warning System Accessory | 1100R Repeater1135 Wireless Sounder9060, 9063 Wireless Keypads | 240 |
| UL 1023 Household Burglary System Units Accessory | 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 | 60 |
| UL 1076 Proprietary Burglar Alarm Units Accessory | 1100R Repeater1103 Universal Transmitter | 60 |
| UL 1610 Central Station Burglar Alarm Units Accessory | 1100R Repeater1103 Universal Transmitter1135 Wireless Sounder9060, 9063 Wirless Keypads | 60 |
| UL 2075 Gas and Vapor Detectors and Sensors | • 1184 Wireless Carbon Monoxide Detector | 240 |

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 1 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 HIGH POWER WIRELESS RECEIVER

Specifications

Operating Voltage 8 to 14 VDC

Current Draw 240 mA

RF Power Rating 720 mW

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

FCC Part 15: CCKP0114R6

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



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