### DESCRIPTION

The 1100D Series Wireless Receiver provides up to 32 wireless zones for XT30/XT50 Series panels. The 1100DE features 128-bit AES encryption.

The 1100D Series provides two-way, supervised communication using 900 MHz frequency hopping spread spectrum technology. The receiver can be mounted up to 500 feet (152 meters) from the panel enclosure.

### Compatibility

- XT30 Series panels
- XT50 Series panels with firmware Version 102 or higher
- Encryption requires panel Version 183 or higher

### What is Included?

- One 1100D Wireless Receiver
- Hardware Pack

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1. **PROGRAM THE PANEL**

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

   1. Reset the panel. At a keypad, enter **6653** (PROG) to access the PROGRAMMER menu.
   2. In SYSTEM OPTIONS, program a HOUSE CODE between 1 and 50. See “House Code Explained” for more information.
   3. If you are programming an XT50 Series panel, select **NO** at the BUILT IN 1100 WIRELESS prompt to allow the panel to use the 1100D for wireless communication.
   4. (1100DE 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. (1100DE only) The default passphrase appears at the ENTER PASSPHRASE prompt. 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).
   6. Press CMD until **STOP** displays. Press a top row select key or area to save programming.

2. **SELECT A LOCATION**

   The receiver should be centrally located between 1100 Series transmitters used in the installation and no more than 500 feet (152 meters) away from the panel. Use an 1106 Series Universal Wireless Transmitter to perform an LED survey.

   1. With the cover removed, hold the transmitter in the desired location.
   2. Press the tamper switch to send data to the panel and determine if communication is confirmed or faulty.

      ![Confirmed](confirmed.png)

      **Confirmed:** If communication is confirmed, for each press or release of the tamper switch, the LED blinks immediately on and immediately off.

      ![Faulty](faulty.png)

      **Faulty:** If communication is faulty, the LED remains on for about 8 seconds or flashes multiple times in quick succession. Relocate the receiver until the LED confirms clear communication.
### 3 WIRE AND MOUNT THE RECEIVER

The panel immediately recognizes the 1100D if the panel is programmed with a house code. Do not use shielded wire between the panel and receiver.

1. Connect the red, yellow, green, and black wires to the PANEL terminal on the 1100D.
2. Connect the other end of the wires to the terminals 7, 8, 9, and 10 on the panel. See Figure 2.
3. Use the included #6 screws to secure the 1100D to the surface. See Figure 2 for mounting hole locations.
4. Snap the cover back on to the base.

**Figure 2: Receiver Wiring**

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### ADDITIONAL INFORMATION

**Wiring Specifications**

DMP recommends using 18 or 22 AWG for all LX-Bus and Keypad Bus connections. The maximum wire distance between any module and the DMP Keypad Bus or LX-Bus circuit is 10 feet. To increase the wiring distance, install an auxiliary power supply, such as a DMP Model 505-12. Maximum voltage drop between a panel or auxiliary power supply and any device is 2.0 VDC. If the voltage at any device is less than the required level, add an auxiliary power supply at the end of the circuit.

To maintain auxiliary power integrity when using 22-gauge wire on Keypad Bus circuits, do not exceed 500 feet. When using 18-gauge wire, do not exceed 1,000 feet. Maximum distance for any bus circuit is 2,500 feet regardless of wire gauge. Each 2,500 foot bus circuit supports a maximum of 40 LX-Bus devices.

For additional information refer to the LX-Bus/Keypad Bus Wiring Application Note (LT-2031) and the 710 Bus Splitter/Repeater Module Installation Guide (LT-0310).

**House Code Explained**

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

The six labeled LEDs on the 1100D PCB display wireless receiver operation and activity. See Figure 2 for LED locations and Table 1 for LED indications.

<table>
<thead>
<tr>
<th>LED</th>
<th>INDICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF RX</td>
<td>Flashing yellow indicates data is being received from a transmitter.</td>
</tr>
<tr>
<td>RF TX</td>
<td>Flashing green indicates data is being sent to a transmitter.</td>
</tr>
<tr>
<td>PANEL RX</td>
<td>Flashing yellow indicates data is being received from a panel.</td>
</tr>
<tr>
<td>PANEL TX</td>
<td>Flashing green indicates data is being sent to the panel.</td>
</tr>
<tr>
<td>STATUS</td>
<td>Solid red indicates memory is being uploaded. Turns off when complete.</td>
</tr>
<tr>
<td>PWR</td>
<td>Solid green indicates there is power to the wireless receiver.</td>
</tr>
</tbody>
</table>

**Table 1: LED Indications**

**Compliance Information**

For listed installations, program wireless transmitter supervision times in panel zone programming according to the values specified in Table 2. Refer to the panel programming guide for complete wireless programming information.

<table>
<thead>
<tr>
<th>UL STANDARD</th>
<th>LISTED ACCESSORIES</th>
<th>SUPERVISION TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL 268 Smoke-Automatic Fire Detectors</td>
<td>• 1100R Repeater&lt;br&gt;• 1164 Wireless Synchronized Smoke Detector&lt;br&gt;• 1168 Smoke/CO/Low Temp Detector</td>
<td>3</td>
</tr>
<tr>
<td>UL 365 Police Station Connected Burglar Accessory</td>
<td>• 1100R Repeater&lt;br&gt;• 1103 Universal Transmitter</td>
<td>60</td>
</tr>
<tr>
<td>UL 521 Heat Detectors for Fire Protective Signaling Systems</td>
<td>• 1100R Repeater&lt;br&gt;• 1183-135F, 1183-135R</td>
<td>3</td>
</tr>
<tr>
<td>UL 609 Local Burglar Alarm Units and System Accessory</td>
<td>• 1100R Repeater&lt;br&gt;• 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&lt;br&gt;• 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&lt;br&gt;• 1127W, 1127C PIR Motion Detectors</td>
<td>60</td>
</tr>
<tr>
<td>UL 985 Household Fire Warning System Accessory</td>
<td>• 1100R Repeater&lt;br&gt;• 1135 Wireless Sounder&lt;br&gt;• 9060, 9063, 9862 Wireless Keypads</td>
<td>240</td>
</tr>
<tr>
<td>UL 1023 Household Burglary System Units Accessory</td>
<td>• 1100R Repeater&lt;br&gt;• 1101, 1102, 1103, 1106 Universal Transmitters&lt;br&gt;• 1127W, 1127C PIR Motion Detectors&lt;br&gt;• 1135 Wireless Sounder&lt;br&gt;• 1142 Two-Button Holdup Transmitter&lt;br&gt;• 9060, 9063, 9862 Wireless Keypads</td>
<td>60</td>
</tr>
<tr>
<td>UL 1076 Proprietary Burglar Alarm Units Accessory</td>
<td>• 1100R Repeater&lt;br&gt;• 1103 Universal Transmitter</td>
<td>60</td>
</tr>
<tr>
<td>UL 1610 Central Station Burglar Alarm Units Accessory</td>
<td>• 1100R Repeater&lt;br&gt;• 1103 Universal Transmitter&lt;br&gt;• 1135 Wireless Sounder&lt;br&gt;• 9060, 9063, 9862 Wireless Keypads</td>
<td>60</td>
</tr>
</tbody>
</table>

**Table 2: Wireless Transmitter Supervision Times**
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, including interference that may cause undesired operation.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (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 standards. 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.

1100D SERIES WIRELESS RECEIVERS

Specifications
Operating Voltage  8.0 to 14.0 VDC
Current Draw  40 mA
Frequency Range  905‑924 MHz
Housing Dimensions  5.50” W x 3.75” L x 1.00” H
13.97 cm W x 9.53 cm L x 2.54 cm H
Housing Color  White
Housing Material  Flame Retardant ABS

Ordering Information
1100D-W Standard Wireless Receiver
1100DE-W Encrypted Wireless Receiver

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

Certifications
California State Fire Marshal (CSFM)
FCC Part 15 Registration ID: CCKPC0114R6
Industry Canada: 5251A-PC0114R6
Intertek (ETL) Listed
ANSI/UL 365  Police Station Connected Burglar
ANSI/UL 609  Local Burglar Alarm Units & Systems
ANSI/UL 636  Holdup Alarm Units & Systems
ANSI/UL 985  Household Fire Warning Systems
ANSI/UL 1023  Household Burglar Alarm System Units
ANSI/UL 1076  Proprietary Burglar Alarm Units
ANSI/UL 1610  Central Station Burglar Alarm Units

Compatible With Devices Listed for:
ANSI/UL 634  Connections and Switches for use with Burglar Alarm Systems Accessory
ANSI/UL 639  Intrusion Detections Units Accessory

Designed, engineered, and manufactured in Springfield, MO using U.S. and global components.
LT-1820 20092

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