

1100R Wireless Repeater

Description

The 1100R Wireless Repeater provides increased communication range when used with the 1100 Series Wireless Receivers. Up to eight repeaters can be installed on a wireless system. Using the on-board LEDs, the 1100R Wireless Repeater provides built-in survey capability to allow for single-person installations, eliminating the requirement for an external survey kit. For added security, an internal case tamper switch is provided.

Compatibility

The 1100R Repeater operates with the XR500 Series Command Processor™ panels or XR100 Series Command Processor™ panels using the 1100X, 1100XI or 1100XH Receiver or with the XRSuper6, XR20, and XR40 Command Processor™ panels using the 1100D, 1100DI or 1100DH Receiver.

What is Included

The 1100R Wireless Repeater includes the following items:

- One Model 1100R Repeater
- One Lithium Polymer Rechargeable Battery
- One Model 376 DC Power Supply
- Zone name and number label
- Serial number label
- Hardware pack

Serial Number

For your convenience, an additional pre-printed serial number label is included. Prior to installing the device, record the serial number or place the pre-printed serial number label on the panel programming sheet. This number is required during programming. As needed, use the zone name and number label to identify a specific repeater.

Programming the Transmitter in the Panel

Refer to the XR500 Series Programming Guide (LT-0679), XR100 Series Programming Guide (LT-0896), or the XRSuper6/XR20/XR40 Programming Guide (LT-0305) as needed. Program the device as a zone in **Zone Information** during panel programming. At the Serial Number: prompt, enter the eight-digit serial number, including leading zeros. Continue to program the zone as directed in the panel programming guide.

Note: When a receiver is installed, powered up, or the panel is reset, the supervision time for transmitters is reset. If the receiver has been powered down for more than one hour, wireless transmitters may take up to an additional hour to send a supervision message unless tripped, tampered, or powered up. This operation extends battery life for transmitters. A missing message may display on the keypad until the transmitter sends a supervision message.

Selecting the Proper Location (LED Survey Operation)

The 1100R provides a survey capability to allow one person to confirm communication with the receiver while the cover is removed.

Battery Only Startup

The 1100R provides the option to power up using the Lithium battery for survey operation. Briefly short the Battery Start pads together to power up. Refer to Figure 1.

Survey LEDs

The 1100R automatically begins establishing communication at power up so there is no need to fault the tamper switch. The 1100R Green Survey LED turns on steady when communication with the receiver is established. The 1100R Red Survey LED turns on steady when communication cannot be established with the receiver. Communication is faulty when the Green and Red LEDs alternate flashing. Relocate the repeater until the Green LED turns on steady indicating communication has been established.

Installing the Wireless Repeater

Mount the 1100R on a flat surface such as a wall or single-gang box near a wall outlet for the Model 376 plug-in power supply. The 1100R Wireless Repeater is typically mounted in a location that will be located between the 1100 Series transmitters and the 1100 Series Receiver used in the installation. Install the repeater away from large metal objects. Mounting the repeater on or near metal surfaces impairs performance. When selecting the proper mounting location of a repeater, refer to the LED Survey Operation section.

Remove the cover from the plastic housing by squeezing both sides toward each other. Secure the repeater to the wall in the desired location using the supplied screws in the mounting hole locations as shown in Figure 1. Snap the cover back on the unit.

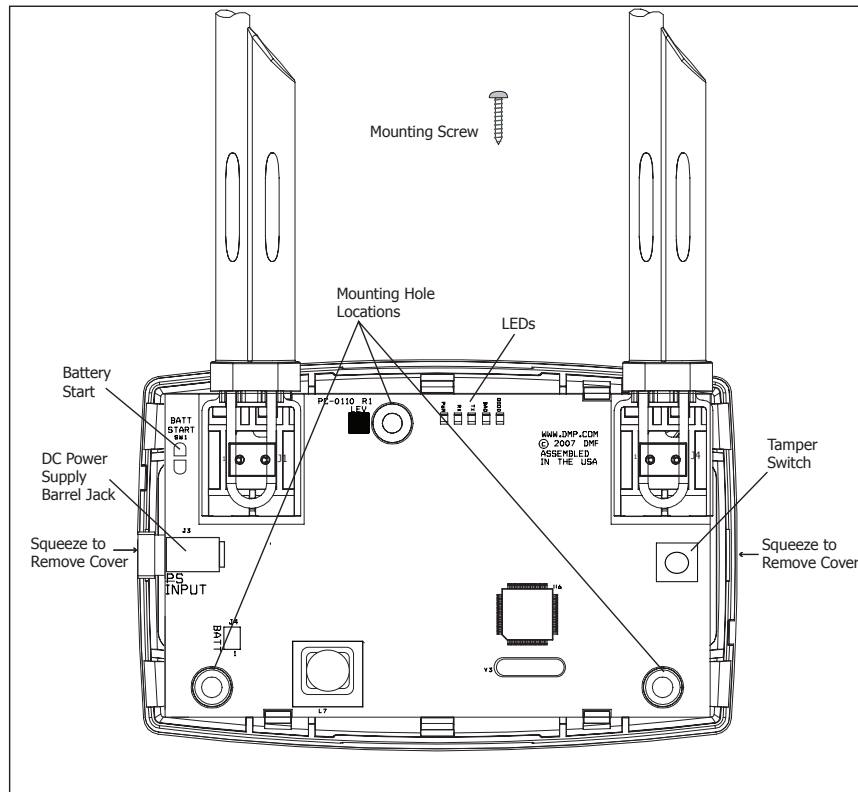


Figure 1: 1100R Repeater PCB Layout

LED Operation

Five LEDs display repeater operation and activity. Refer to the table below as required.

LEDs	Operation
PWR	Steady Green to indicate there is power to the repeater.
RX	Flashes Yellow to indicate data is being received.
TX	Flashes Green to indicate data is being sent.
BAD	Steady Red to indicate the repeater cannot establish communication with the receiver.
GOOD	Steady Green to indicate communication has been established with the receiver.

Battery Life Expectancy

The 1100R battery is used to provide 24 hours of backup battery power when AC power is not available. The following situations can reduce battery life expectancy:

- If the battery leads are not properly plugged into the connector
- DC power supply is not connected or not plugged in

Installing or Replacing the Battery Assembly

Observe polarity when plugging the battery connector into the header. Use only DMP Model 1100RBAT.

Removing the Battery Assembly

1. Remove the repeater housing cover.
2. Disconnect the battery lead connector from the repeater J4 battery header.
3. Remove the battery PCB from the four standoffs.
4. Properly dispose 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.

Installing the Battery Assembly

1. Align the four battery PCB standoffs with the standoff mounting holes. See Figure 2.
2. Snap the battery assembly in place.
3. Observe polarity and connect the battery lead connector to the repeater J4 battery header.

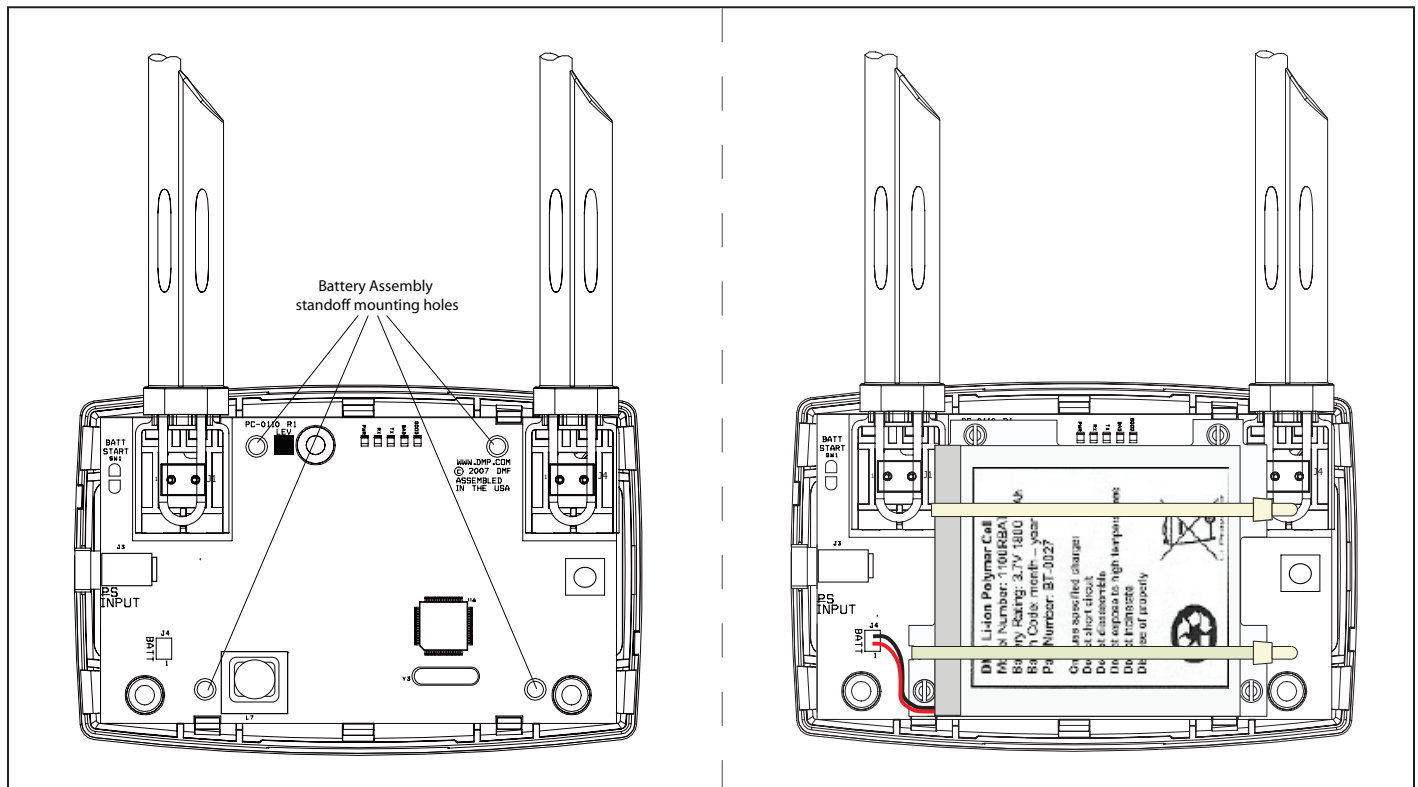


Figure 2: Battery Assembly

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.

Specifications

Battery	
Life Expectancy	3 years
Type	Lithium Polymer
See Battery Life Expectancy for full details.	
Frequency Range:	903-927 MHz
Dimensions	
Housing	4.65" L x 3.1" W x 1.4" H
Antennas	8.6" H
Color	White
Housing Material	Flame retardant ABS

Patents

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

Listings and Approvals

FCC Part 15 Registration ID CCKPC0110
IC Registration ID 5251A-PC0110



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