

1102 Universal Transmitter

Description

The 1102 Universal Transmitter provides an on-board terminal block as a single input, typically used for door or window contacts. The contact operates as a single zone as described in zone programming in the panel programming guide.

Using the on-board LED the 1102 Universal Transmitter provides built-in survey capability to allow for single-person installations, eliminating the requirement for an external survey kit. A transmitter mounting bracket is included to make the installation quick and easy. For added security, an internal case tamper switch is provided.

Compatibility

All DMP 1100 Series Wireless Receivers and Panels

What is Included

The 1102 Universal Transmitter includes the following items:

- One 1102 Transmitter PCB mounted in a two-part housing (base and cover)
- One 3V lithium CR123A battery
- Hardware pack
- Zone name and number label
- Serial number label
- Optional Transmitter mounting bracket
- Optional double-sided tape

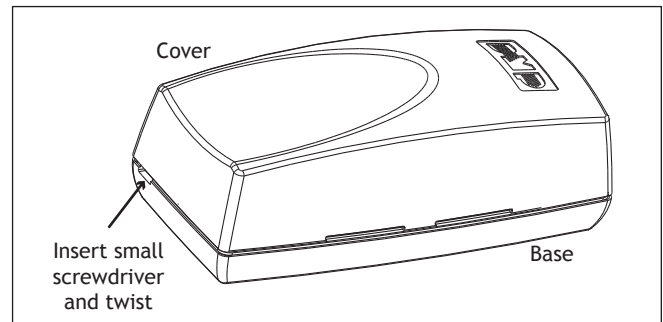


Figure 1: 1102 Transmitter Housing

Transmitter 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 transmitter.

Programming the Transmitter in the Panel

Refer to the XR500 Series Programming Guide (LT-0679), XR100 Series Programming Guide (LT-0896), XT30/XT50 Series Programming Guide (LT-0981), 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. 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 1102 Transmitter provides a survey capability to allow one person to confirm transmitter communication with the receiver while the cover is removed. The 1102 Transmitter PCB Red Survey LED turns on whenever data is sent to the receiver then immediately turns off when the receiver acknowledgement is received. Pressing the tamper switch is a convenient way to send data to the receiver to confirm operation. When the tamper switch is pressed or released, the LED blinks once to indicate proper operation. When the transmitter does not receive an acknowledgement from the receiver the LED remains on for about 8 seconds to let you know communication is not established. Communication is also faulty when the LED flashes multiple times in quick succession. Relocate the transmitter or receiver until the LED immediately turns off indicating the transmitter and receiver are communicating properly. Proper communication between the transmitter and receiver is verified when for each press or release of the tamper switch, the LED blinks immediately on and immediately off. Repeat this test to confirm five separate consecutive LED blinks. Any indication otherwise means proper communication has not been established.

Installing the Transmitter

The 1102 Transmitter can be installed using the base housing or using an optional mounting bracket. Refer to the following to complete the installation.

Install Using the Base Housing

These instructions cover installing the transmitter using the base housing without the mounting bracket. If the installation requires the mounting bracket, refer to Install Using the Optional Mounting Bracket below.

1. Remove the battery if installed.
2. Place one supplied screw into the mounting hole location as shown in Figure 2 or use double-sided tape and secure the housing to the surface.
3. Spring must be in place on tamper switch for normal operation.

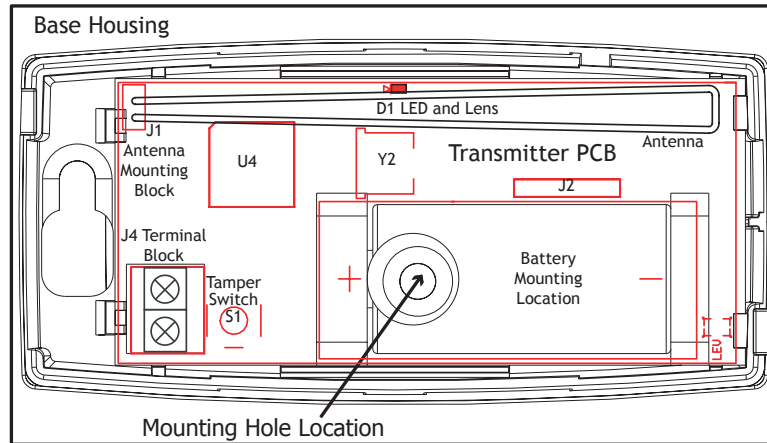


Figure 2: Base Housing Mounting

Note: For UL listed installations, do not use the optional mounting bracket. See Install Using the Base Housing above.

Install Using the Optional Mounting Bracket

The following instructions cover installing the transmitter using the mounting bracket. If the installation does not require the mounting bracket, refer to Install Using the Base Housing.

1. The 1102 Transmitter does not require an alignment bracket for installation. Remove the alignment bracket before installing the mounting bracket.
2. Secure the mounting bracket using the supplied screws or double-sided tape.
3. Line the transmitter base up with the mounting bracket snap connectors and press the transmitter into place.

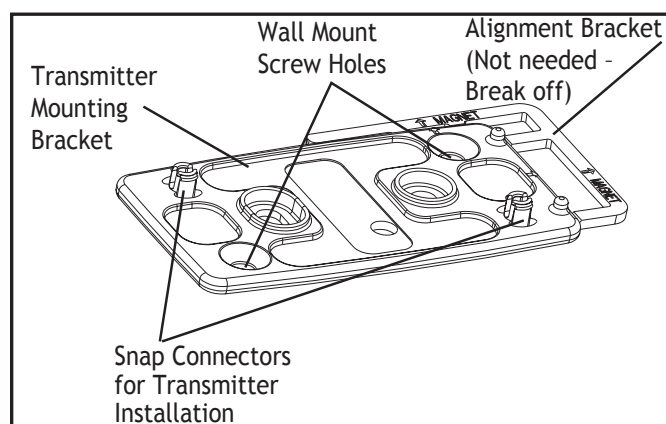


Figure 3: Optional Mounting Bracket

Wiring and Connecting Contacts

When connecting an external contact to the terminal block, DMP recommends using 18 or 22-gauge unshielded wire. **Do not** use twisted pair or shielded wire. Connect the contact as normally open (N/O) or normally closed (N/C) without any end-of-line resistor. For example: when programming the contact, select normally open (N/O) if the contact is connected as normally opened. Refer to the Contact option under Zone Information in the appropriate panel programming guide.

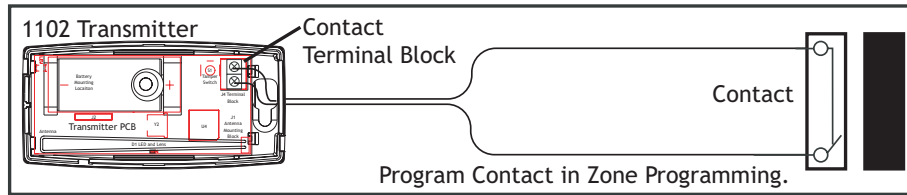


Figure 4: Contact Wiring

Note: For UL listed installations, program the external contact as Normally Closed (N/C). Refer to the Contact option under Zone Information in the appropriate panel programming guide.

Installing or Replacing the Battery

Observe polarity when installing the battery. Use only 3.0V lithium batteries, DMP Model CR123, or the equivalent battery from a local retail outlet. For UL installations, only use #123 batteries manufactured by Energizer or CR123A batteries manufactured by Panasonic or Tekcell.

Note: When setting up a wireless system, it is recommended to program zones and connect the receiver before installing batteries in the transmitters.

1. If installed, remove the transmitter housing cover.
2. If replacing the battery, remove the old battery and dispose of it properly.
3. Place the 3.0V lithium battery in the holder as shown in Figure 5 and press into place.
4. Line the transmitter cover so the DMP logo is over the battery and snap the cover back into place.



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

Battery Life Expectancy

Typical battery life expectancy for DMP Model 1102 wireless transmitters is 5 years. DMP wireless equipment uses two-way communication to extend battery life.

The following situations can reduce battery life expectancy:

- If a receiver is unplugged or not installed.
Note: Transmitters continue to send supervision messages until a receiver returns an acknowledgement. After an hour the transmitter only attempts a supervision message every 60 minutes.
- Frequent transmissions, such as a door contact where messages are sent every time the door opens or closes.
- When installed in extreme hot or cold environments.

The following situation can extend battery life expectancy:

- Extend transmitter supervision time in panel programming.
- Infrequent transmission trips, such as a window that rarely sends messages.

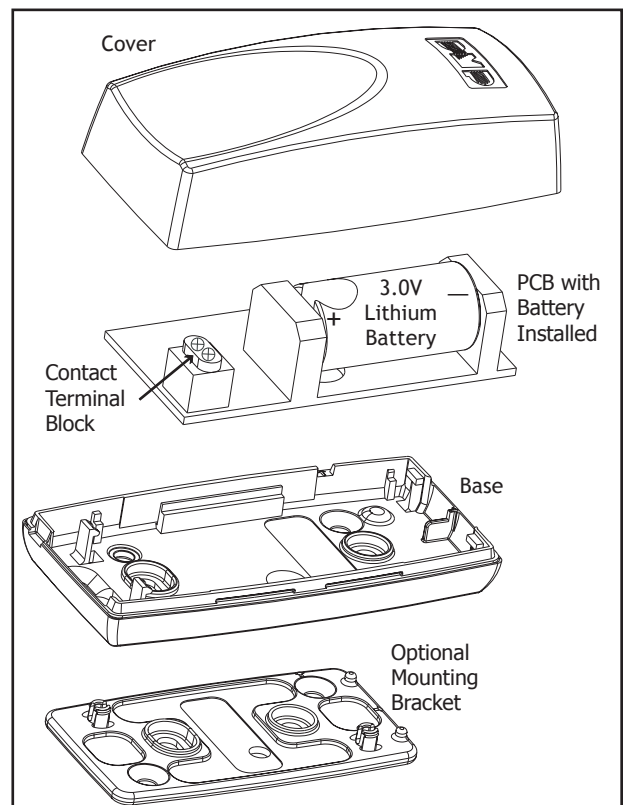


Figure 5: 1102 Transmitter Exploded View

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 20 cm from all persons. It must not be co-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:

- 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 5 years (normal operation)
Type 3.0V lithium CR123A
See Battery Life Expectancy for full details.

Frequency Range: 903-927 MHz

Dimensions

Transmitter Case 3.3" L x 1.6" W x 1.2" H
Optional Mounting
Bracket 2.5" L x 1.3" W x 0.1" H

Color White

Housing Material Flame retardant ABS

Patents

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

Listings and Approvals

California State Fire Marshal (CSFM)

FCC Part 15 Registration ID CCK1101

IC Registration ID 5251A-PC0081

Underwriters Laboratories (UL) Listed

ANSI/ UL 1023 Household Burglar Alarm System Units
Accessory Magnetically Activated Switch or Door
Contact Transmitter

ANSI/UL 634 Connections and Switches for use with
Burglar Alarm Systems Accessory

ANSI/UL 985 Household Fire Warning System Accessory

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