

# 1154 WIRELESS FOUR-ZONE INPUT MODULE

## Installation Guide

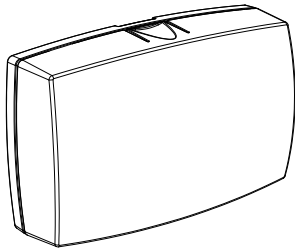


Figure 1: 1154

### DESCRIPTION

The 1154 Wireless Four-Zone Input Module is designed to convert up to four existing normally closed, hardwired zones (such as motion sensors, door & window contacts, etc.) into wireless zones.

When a DMP panel is installed in a location with an existing non-DMP panel, then the 1154 can be connected to the existing panel's 12 V auxiliary power. Once connected, the 1154 Wireless Input Module converts up to four existing hardwired zones into wireless zones. This allows the new DMP panel to communicate with the existing zones.

### Compatibility

- All DMP 1100 Series Wireless Receivers and burglary panels

### What is Included?

- 1154 Wireless Four-Zone Input Module
- 3 V Lithium CR123A battery
- Hardware pack



## 1 PROGRAM THE PANEL

The 1154 can be programmed with up to four zones. When programming the 1154 in the panel, refer to the panel programming guide as needed.

1. In **ZONE INFORMATION**, enter the zone number. Press **CMD**.
2. Enter the **ZONE NAME** and press **CMD**.
3. Once **ZONE TYPE** appears, select the appropriate zone type. Press **CMD**.
4. At the **NEXT ZONE** prompt, select **NO**. If you see the **WIRELESS ZONE** prompt, select **YES**.



**Note:** This option only displays if the zone number can be programmed as wireless. This option does not appear for hardwire zones.

5. Enter the eight-digit **SERIAL NUMBER**. Press **CMD**.
6. Enter the **CONTACT** number being used.
7. Enter the **SUPERVSN TIME** and press **CMD**.
8. At the **NEXT ZONE** prompt, select **YES** and continue to program up to three more zones.



**Note:** Zones must be entered sequentially.

| PANEL                          | ZONES                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XT30/XT50, XTLplus, & XTLtouch | The zone numbers begin with the 1154 address and are followed by the particular zone from the 1154. For example, an 1154 at keypad address 4 would provide zones 41, 42, 43, and 44. |
| XR150                          | Zone numbers are valid from 500-599. Zones must still be programmed sequentially (i.e. 551, 552, 553, and 554).                                                                      |
| XR550                          | Zone numbers are valid from 500-999. Zones must still be programmed sequentially (i.e. 551, 552, 553, and 554).                                                                      |

## 2 USE THE LED SURVEY TO SELECT A LOCATION

The transmitter provides a Survey LED capability to allow one person to confirm communication with the wireless receiver or panel while the cover is removed.

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



**Confirmed:** If communication is confirmed, 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.



**Faulty:** If communication is faulty, the LED remains on for about 8 seconds or flashes multiple times in quick succession. Relocate the transmitter or receiver until the LED confirms clear communication.

# 3 MOUNT THE 1154

The 1154 should be placed close to the existing non-DMP panel.

Mount the device on a flat surface such as a wall or single-gang box. When using the optional Model 376L plug-in power supply, mount the device near a wall outlet. See Figure 2 for an example of all mounting holes on the housing base. Use any combination.

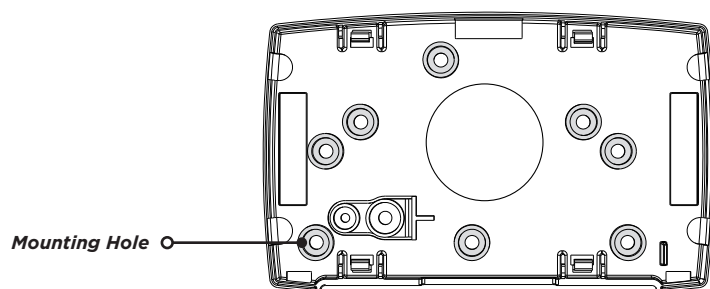


Figure 2: Mounting Hole Locations

# 4 WIRE THE 1154 ZONES

Wire the zones and connect the receiver before installing the battery or connecting a power supply to the 1154.

1. Locate the existing contacts that you want to connect to the 1154. These contacts should be within 100 feet of the 1154.
2. Use 18-22 gauge wire to connect a zone device to terminals **Z1+** and **Z1-**.
3. Repeat step 2 for the remaining zones as needed.



**Note:** When wiring normally closed contacts, EOL resistors do not need to be changed or removed.

# 5 POWER THE 1154

## Option A: Power from an Existing Panel

Use power from an existing panel to connect the 1154 to powered zones such as PIRs or glassbreak detectors. The existing panel must be connected to AC power. The powered zones must be connected to the existing panel or another power supply for power.

1. Place the jumper on the two power source selector pins labeled **EXT** to enable external power supply operation.
2. Using 18-22 gauge wire, connect a black wire to the ground terminal on the existing panel, and a red wire to a terminal on the panel with 12 VDC power. See Figure 3.
3. Connect the black wire to the negative terminal on the input power terminal block on the 1154, and the red wire to the positive terminal.
4. Snap the housing cover into place.

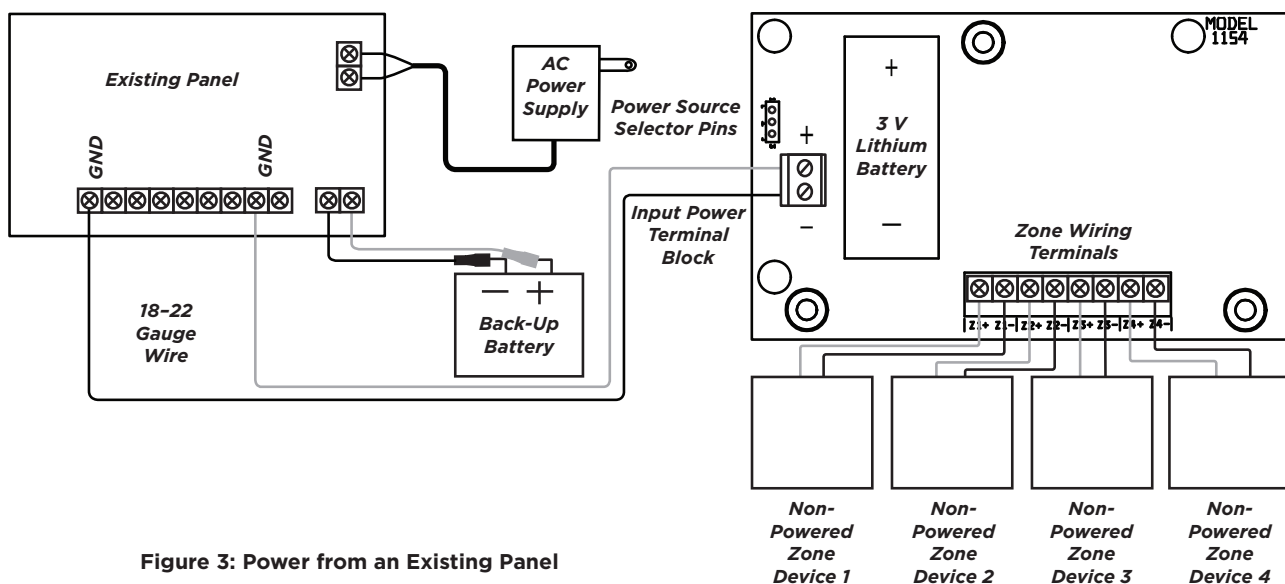


Figure 3: Power from an Existing Panel

### Option B: External DC Plug-In Power Supply

Use power from the optional Model 376L plug-in DC power supply to connect the 1154 to powered zones. The 1154 must be mounted near a wall outlet or other power source.

1. Place the supplied jumper on the two power source selector pins labeled **EXT** to enable external power supply operation.
2. Connect the wiring from the power supply to the input power terminal block. Connect the black wire to the negative terminal and the black and white wire to the positive terminal. See Figure 4.
3. Plug the Model 376L power supply into a 110 VAC outlet.
4. Snap the housing cover into place.

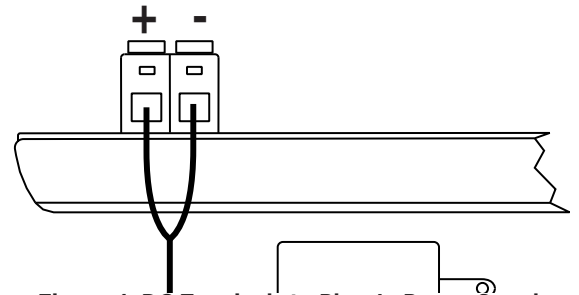


Figure 4: DC Terminals to Plug-In Power Supply

### Option C: External 12 VDC Power Supply

Power the 1154 and powered zones from the DMP Model 505-12 power supply or other external 12 VDC power supply with battery backup to remove the existing non-DMP panel from the setup. Use 18-22 gauge wire to connect the 1154.

1. Place the supplied jumper on the two power source selector pins labeled **EXT** to enable external power supply operation.
2. Observing the polarity of all wired connections, use 18-22 gauge wire to connect the 1154's input power terminal block to the **+ DC -** terminal on the 505-12 power supply. See Figure 5.
3. Snap the housing cover into place.

### Option D: Battery Power

Use a single CR123A 3 V battery to connect the 1154 to non-powered zones such as door or window contacts or battery-powered contacts. Observe polarity when installing the battery into the module.

**⚡ Caution:** Do not connect the 1154 to an external power supply (existing panel, plug-in power supply, 505-12) if there is a CR-123A 3 V battery installed in the module.

1. If needed, remove the old battery and properly dispose of it.
2. Place the supplied jumper on the two power source selector pins labeled **BAT** to enable battery operation.
3. Place a new battery into the holder and observe polarity.
4. Snap the housing cover into place.

**⚡ Caution:** Properly dispose of used batteries. Do not recharge, disassemble, heat above 212°F (100°C), or incinerate.

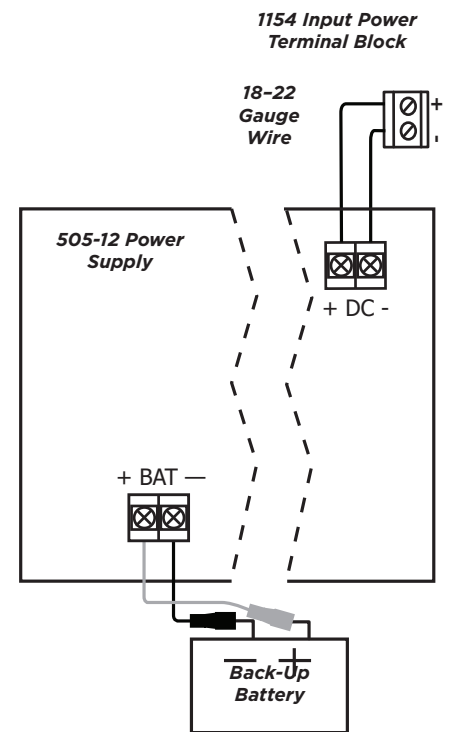


Figure 5: External 12 VDC Power Supply

## 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 (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.

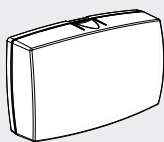
This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General 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.*

## 1154 WIRELESS FOUR-ZONE INPUT MODULE



### Specifications

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| Battery          |                                                             |
| Life Expectancy  | 3 years                                                     |
| Type             | 3 V Lithium CR123A                                          |
| Frequency Range  | 905-924 MHz                                                 |
| Dimensions       | 4.65" L x 3.10" W x 1.40" H<br>11.81 L x 7.87 W x 3.56 H cm |
| Color            | White                                                       |
| Housing Material | Flame Retardant ABS                                         |

### Accessories

|        |                         |
|--------|-------------------------|
| CR123  | DMP 3 V Lithium Battery |
| 376L   | DC Plug-in Power Supply |
| 505-12 | 12 VDC Power Supply     |

### Compatibility

- XT30 panels with 1100D Series Wireless Receiver with Version 105 or higher
- XT50 panels with integrated wireless receiver or 1100D Series Wireless Receiver with Version 105 or higher
- XR150/XR550 Series panels with 1100X Series Wireless Receivers with Version 105 or higher
- XTLplus panels with integrated wireless receiver
- XTLtouch panels with integrated wireless receiver

### Patents

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

### Certifications

FCC Part 15 Registration ID CCKPC0101  
IC Registration ID 5251A-PC0101



Designed, engineered, and  
manufactured in Springfield, MO  
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2500 North Partnership Boulevard  
Springfield, Missouri 65803-8877  
800.641.4282 | DMP.com

