

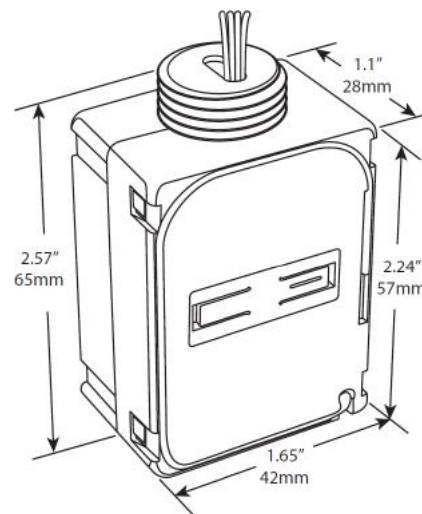
# Wireless Repeater

## Product Description

The Wireless Repeater (P/Ns 814-3560 and 814-3570) is the recommended repeater to be used with the Wireless Module System. If a Wireless Module is placed more than 100 feet from the Wireless Gateway, a Wireless Repeater should be added to optimize the wireless range between devices. The Repeater should be placed between the Gateway and the Module. The best location is a clear line-of-sight between the two units if possible.

## Specifications

Part Number	Power Supply	Weight
P/N 814-3560	9V to 30VAC, 12 to 40VDC	1.9oz (54g)
P/N 814-3570	120V to 277VAC, 50/60 Hz	3.9oz (90 g)



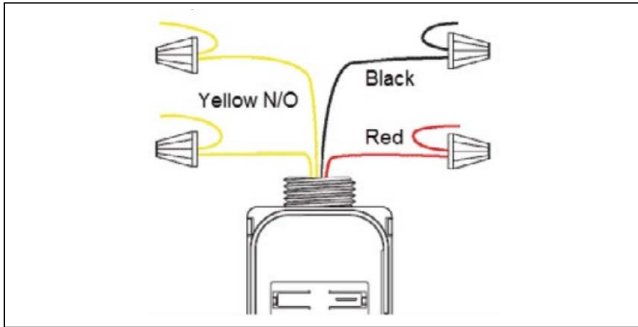
<b>Wireless Frequency</b>	902MHz
<b>Dimensions</b>	2.57" H x 1.65" W x 1.10" D (6.5cm x 4.2cm x 2.8cm)
<b>Temperature Range</b>	Indoor use only 32°F to 104°F (0°C to 44°C)
<b>Relative Humidity</b>	20% to 95% non-condensing

## Mounting and Wiring

- Install outside a standard electrical box.
- Clear line-of-sight between Wireless Gateway and Wireless Module and/or 3rd party wireless transmitters.
- Use the included double-sided adhesive pad to mount the Repeater once configured.

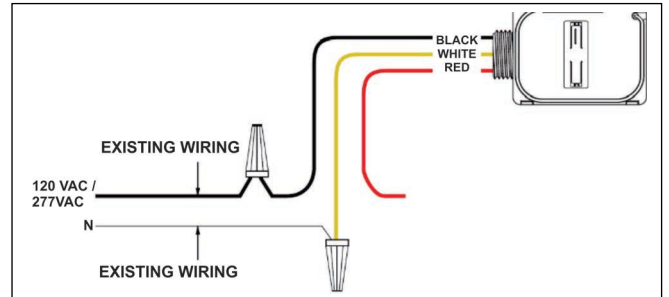
## P/N 814-3560

- **Black/Red:** 9 to 30 VAC; 12 to 40 VDC
- **Yellow:** No Connection



## P/N 814-3570

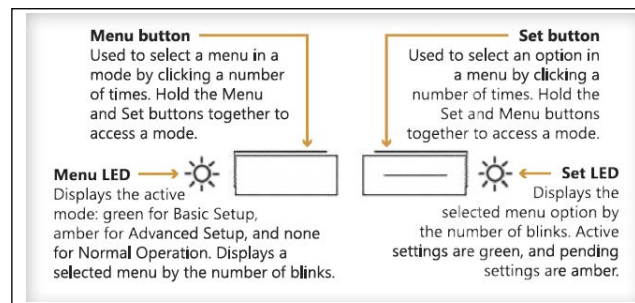
- **Black:** 120V o 277V VAC; 50/60 Hz
- **White:** Neutral
- **Red:** No Connection



**Note:** It may be easier to configure the Repeater and Modules before mounting the devices.

## Set Up the Repeater

- The setup interface has two buttons, **Menu** and **Set**. Each has a corresponding three-color LED (green, amber, red).
- The buttons and LEDs are used to navigate and select linking and setup options through a three-tier menu system consisting of different Modes>Menu>Options.
- The LEDs respond by showing solid or blinking lights of different colors to indicate active options and pending changes.
- The illustration and legend below describe how the buttons are used and the meaning of the LED responses.

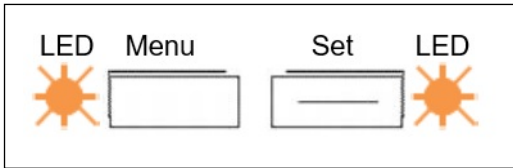


1. Power up the Repeater. It will initiate the startup LED sequence.
2. Configure the device as a Repeater.
3. Link any 3rd party transmitters.

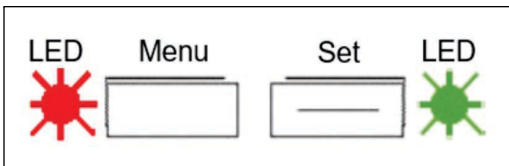
## Configure the Repeater

**Note:** The Wireless Repeater comes pre-configured as a 1 Hop repeater.

1. Access the **Advanced Setup** menu by holding down both buttons for five (5) seconds until both LEDs turn amber.



2. When **Setup** mode is entered, the **Menu** LED blinks red and the **Set** LED blinks green.



3. Select **1 Hop** by quickly pressing the **Set** button twice and the **Set** LED will blink amber twice, or select **2 Hops** by quickly pressing the **Set** button three (3) times and the **Set** LED will blink amber three times.

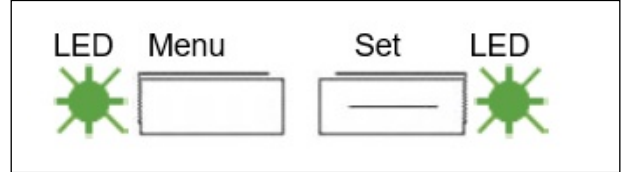
Option	Description
1 Hop	More than 20 Transmitters near a Repeater
2 Hop	Less than 20 Transmitters near a Repeater

4. To exit **Advanced Setup** Mode and return to normal operation, press and hold both buttons for two (2) seconds and both LEDs will blink green to confirm.

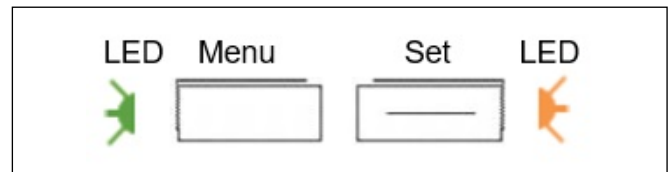
## Link a 3rd Party Transmitter to a Repeater

**Note:** If a Module or Sensor is being used, the Repeater automatically links to the device and repeats the transmission once it is powered up and configured.

1. To access **Basic Setup** Mode, press and hold both buttons for two (2) seconds until both LEDs are green.

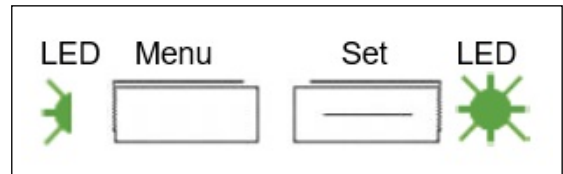


When the Repeater is ready to accept a link, both LEDs blink once per second.

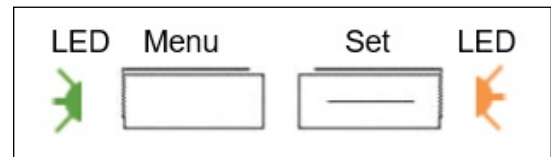


**Note:** Once activated, this option stays active for two (2) minutes to provide time to link multiple devices.

2. For the transmitter to be linked to the repeater, press the **Link** button on that device. The Module is linked successfully when the **Set** LED displays solid green for three (3) seconds.



The Repeater is ready to accept new links when both LEDs blink once per second again.

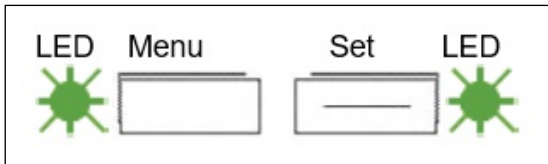


3. To exit **Basic Setup** Mode and return to normal operation, press and hold both buttons for two (2) seconds and both LEDs will blink green to confirm.

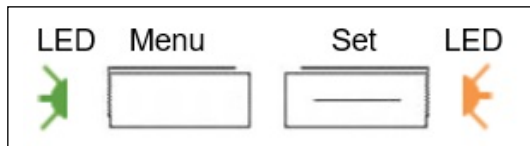
## To Unlink a 3rd Party Transmitter

Follow the same steps as described to link a Module to a Repeater:

1. To access **Basic Setup** Mode, press and hold both buttons for two (2) seconds until both LEDs are green.



2. Press the **Set** button three (3) times to access the **Remove Link** option. When the Repeater is ready to remove links, the **Menu** LED will blink once and the **Set** LED will blink three (3) times.



3. Press the **Learn** button on the Module that is to be removed. The **Set** LED will illuminate red briefly to indicate the link was successfully removed.
4. To exit **Basic Setup** Mode and return to normal operation, press and hold both buttons for two (2) seconds and both LEDs will blink green to confirm.

## To Restore Factory Defaults

Follow the steps below to restore the factory defaults to the Repeater:

1. Press and hold both buttons for 15 seconds until the **Menu** LED is solid red and the **Set** LED is solid amber.

**Note: Both LEDs will turn various colors as the repeater cycles through the resetting process.**

2. Press and hold the **Set** button for three (3) seconds to confirm the reset.
3. The Repeater will reboot and initiate the startup LED sequence.
4. Once the startup sequence is complete, refer to the **Configure the Repeater** section of this document to set up the device again.

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