RP0
Bluetooth
Signal Booster
USB Dongle
User Guide
2026

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Introduction

RP0 USB Signal Booster

The RP0 is a Bluetooth signal booster that plugs into any USB Type-A power source to extend wireless range during commissioning and system updates. It provides long-range communication with the addition of an external antenna, ensuring enhanced connectivity. The RP0 ensures reliable connectivity in challenging environments-from high-ceiling installations to parking structures with sparse fixture layouts.

RP0 with 1dBi antenna. It can be inserted into a USB Type-A port on a power bank. USB Type-A connector on RP0 is only for power supply.

Features

- Bluetooth signal booster tool for commissioning and configuration
- Enhances Bluetooth signal for applications with long distances between nodes or weak signals due to environmental interference
- Threaded antenna connection allows use of 5dB antenna (model TX5, included) or 1dB antenna (model TX1)

Commissioning Best Practice

Bring fully charged power banks to the jobsite to keep both your RP0 and mobile device powered throughout commissioning.
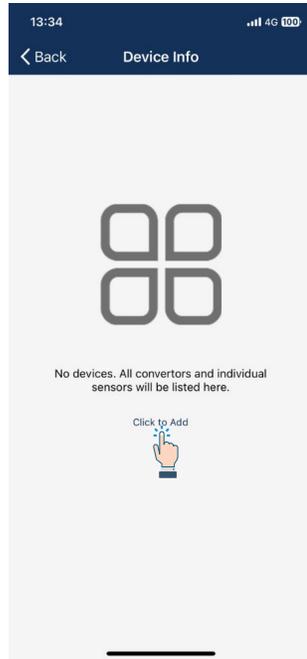*Note: Power banks must support continuous operation with low-power devices (~10mA).*
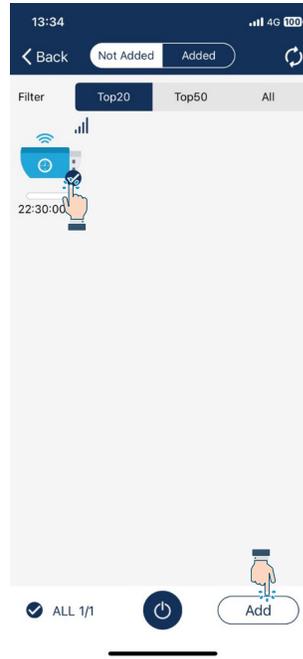
Adding RP0 to a Zone

Before using the RP0 for commissioning or updates, add it to your zone so it can relay signals throughout the mesh network.
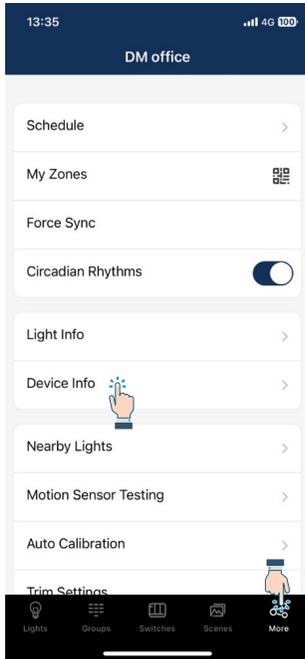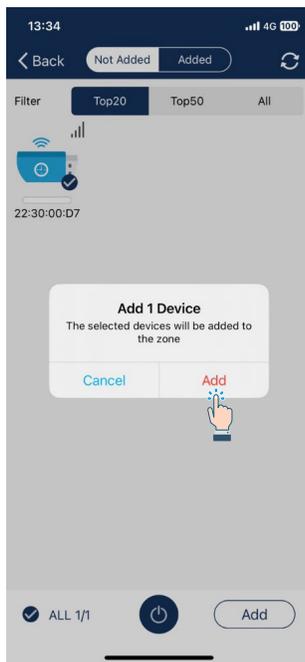
1. Navigate to the '**More**' page, then select '**Device Info**'.
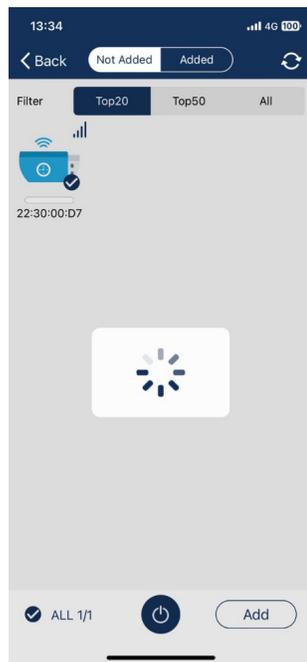
2. Select '**Click to Add**' to scan for nearby devices.

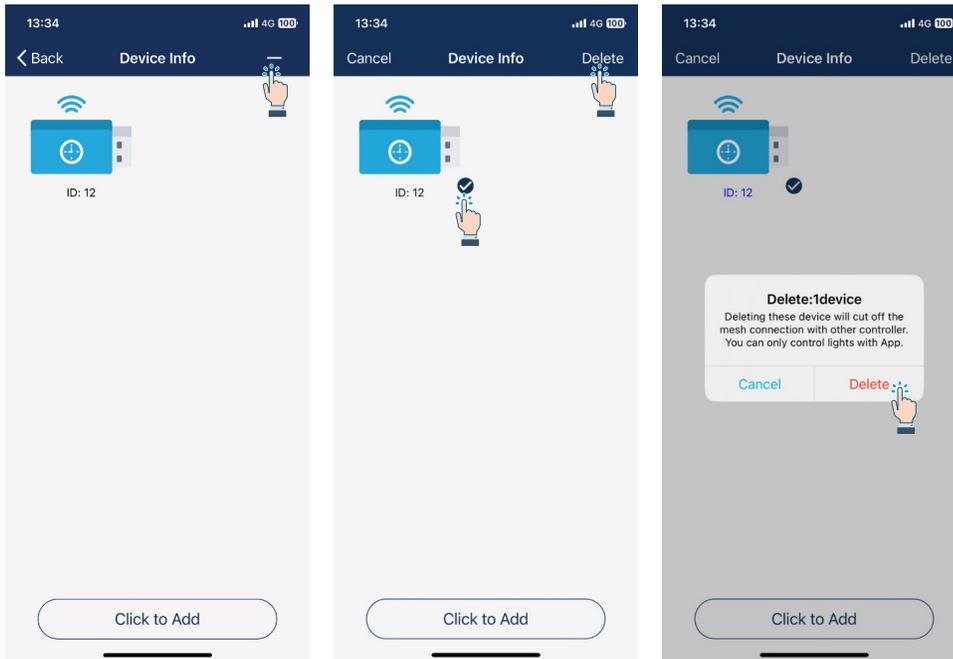**3.** When the RP0 appears, check the circle next to it, then select '**Add**'.

4. Select '**Add**' to confirm. The RP0 is now part of your zone's mesh network.

Resetting RP0 to Factory Settings

You may need to reset the RP0 when moving between zones or troubleshooting connectivity issues. There are three reset methods:
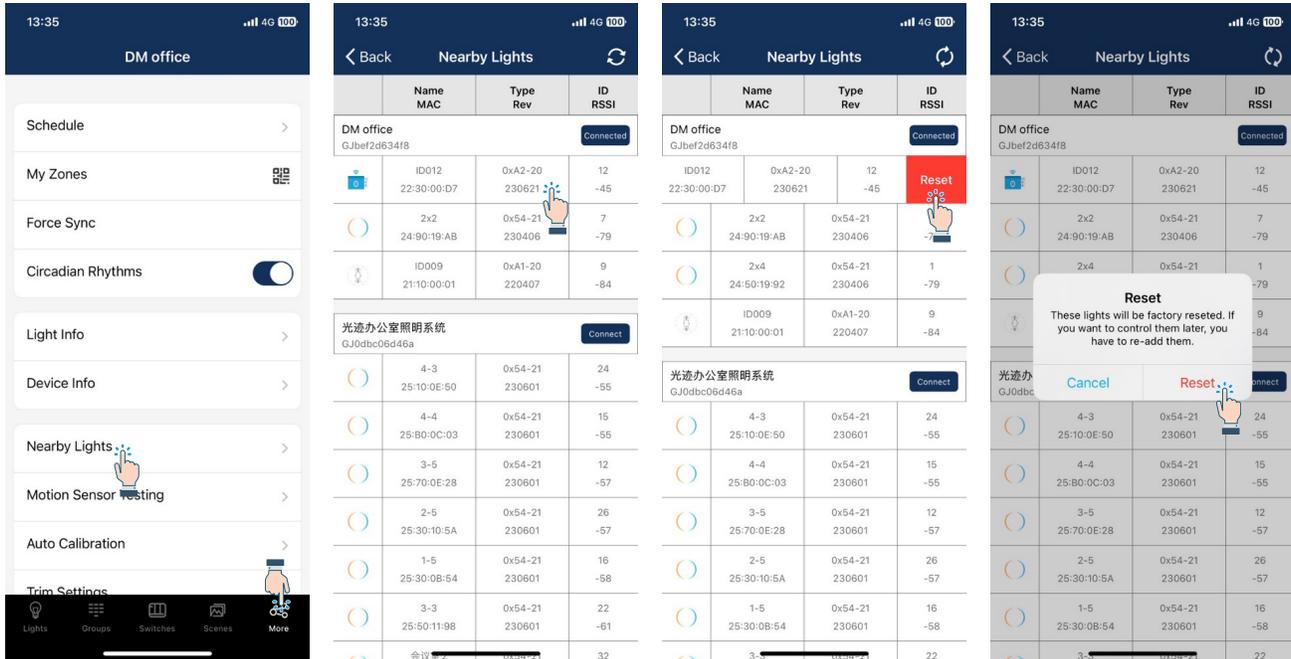
Method 1

1. In the '**Device Info**' page, select the '**-**' button in the top-right corner.

2. Select the RP0 to be reset, then select '**Delete**' in the top-right corner.

3. Select '**Delete**' on the confirmation prompt. The RP0 will be reset to factory settings after being removed from the zone.

Resetting RP0 to Factory Settings

Method 2

1. Navigate to the '**More**' page, then select '**Nearby Lights**'.

2. Find the RP0 device and swipe left, select '**Reset**' , then select '**Reset**' again on the confirmation prompt to restore factory settings.

> *Note: The zone must show as '***Connected***' before you can reset the RP0. Select the '***Connect***' button next to the zone name if needed.*

Resetting RP0 to Factory Settings

Method 3
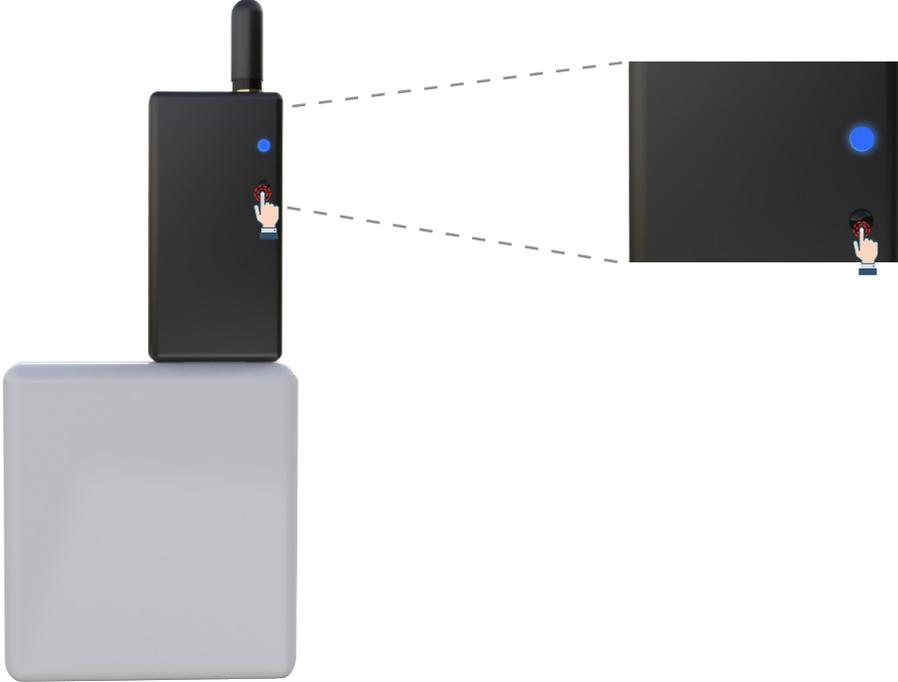
Press and hold the reset button for 3 seconds to restore factory settings.

This method is fastest when you need to quickly reset multiple RP0 devices without accessing the app.

Typical Application - Adding Lights

⊗ Fixture with Keilton sensors.

Use the RP0 when commissioning fixtures in challenging signal environments.

When to Use:
- Fixtures are mounted high (20+ feet) or spread far apart, making direct phone-to-fixture communication difficult

Setup Process:
1. Power on the RP0
2. Reset the RP0 to factory settings (see pages 7-9)
3. Keep the RP0 within 3 feet of your mobile device
4. Leave the RP0 powered throughout commissioning-it acts as a relay between your phone and distant fixtures

Typical Application - Configuring Lights

⊗ Fixture with Keilton sensors.

After commissioning, use the RP0 to ensure configuration changes (groups, scenes, schedules, switch programming) reach all fixtures reliably.

When to Use:
- Configuration commands fail to reach some fixtures due to weak signals or interference

Setup Process:
1. Power on the RP0
2. Add the RP0 to the zone you're configuring (see page 6)
3. Bring the RP0 with you and keep it near the mobile phone
4. Leave the RP0 powered throughout the configuration process

Typical Application - Mesh OTA Firmware

⚅   Fixture with Keilton sensors.

Use the RP0 to ensure firmware updates propagate successfully across large mesh networks.

When to Use:
- Multiple fixtures require firmware updates, and mesh OTA is the most efficient update method

Update Process:
1. Using the engineering app, update one fixture with strong Bluetooth signal. This fixture becomes the initial update distributor.
2. Position yourself near the updated fixture for the remainder of the mesh OTA process.
3. Power on the RP0
4. Ensure the RP0 is in the appropriate state:
   - For pre-commission updates: RP0 should be in factory settings (not added to any zone).
   - For in-service updates: RP0 should be added to the zone being updated.
5. Start the mesh OTA process in the engineering app
6. Leave the RP0 powered throughout the entire update process. If some fixtures fail to update, repeat the mesh OTA process-the RP0 will help the update propagate to unreached fixtures.

Need Help?

Technical Support For installation, configuration, and troubleshooting assistance
Support Center: https://autani.zendesk.com/hc/en-us | Email: support@autani.com
Phone: +1 (443) 320-2233 | Hours: Monday-Friday, 9 AM - 5 PM EST

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