

Load Ranger 2.4 GHz RF Quick Start Guide

This document provides the information necessary to quickly setup the Load Ranger wheel weigh pads and pair them with the Ai-1 Indicator to take weight readings.



NOTE: For more information, see *Load Ranger (RF) Technical Manual (PN 214194)*.

1.0 Unpack Components

1. Remove and set aside the carrying case and wheel pads.
2. Locate the wheel pad power supply between the wheels of the wheel pads and set aside.
3. Locate the carrying case power supply underneath the indicator and printer. Remove it from the case and set aside.



NOTE: To access the carrying case power supply, lift the handle to remove the compartment cover.

2.0 Setup Wheel Weigh Pads

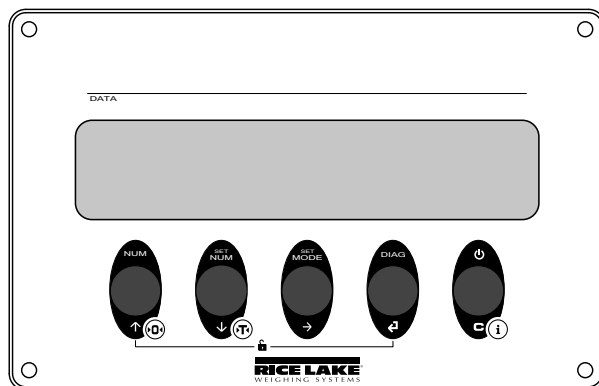


Figure 1. Wheel Weigh Pad Controls

1. Press **⏻** to turn on the first wheel weigh pad.
2. Press **⬇** during startup. *EECh* flashes, then *CHAL* displays.
3. Press **⬇** until *SEr AL* displays.

4. Press **⬅** to enter the **Serial** menu. *id* displays.
5. Press **⬅** to enter the ID settings.
6. Press **⬆** or **⬇** to increase or decrease the selected digit and press **➡** to move between the digits to enter the pad ID number.



NOTE: The first Pad ID number must be 01 and the remaining pad ID numbers must increment in ascending numeric order. Example: 01, 02, 03. Do not configure two pads with the same ID number.

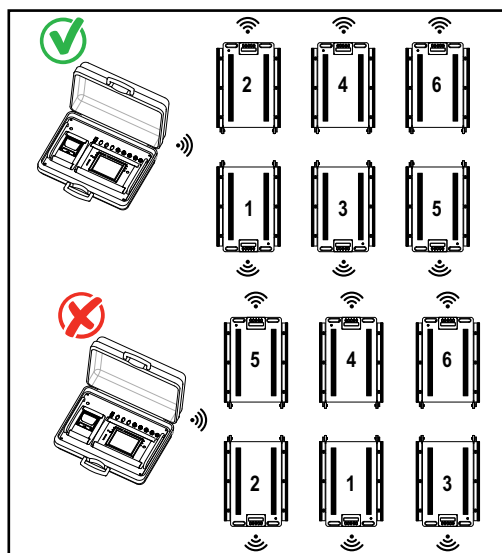


Figure 2. Wheel Weigh Pad Positioning

7. Press **⬅**. *Con rF* displays.
8. Press **⬅** until *bALud* displays.
9. Press **⬇** until *rAd id* displays.
10. Press **⬅**. *rF* displays.
11. Press **⬆** or **⬇** until *0n* displays.
12. Press **⬅**. *r.chAn* briefly displays.
13. Use arrows to enter a channel number.



NOTE: The default channel number is 27. The wheel weigh pad channel number must match the indicator channel number it will pair with. The Ai-1 indicator supports channels 00 - 38. If using multiple groups of indicators and wheel weigh pads, the channel numbers must be unique for each group.

14. Press **⬅**. *OF* briefly displays then *bALud* displays.
15. Press **⏻** twice. *SAUEP* displays.
16. Press **⬅** to save changes.
17. Repeat procedure for all wheel weigh pads in the system.

3.0 Setup Ai-1 Indicator and Pair Wheel Pads

1. Turn off all wheel weigh pads.
2. Press  to turn on the Ai-1 indicator.
3. During startup, press the upper right corner of the screen when the logo displays to enter the **Technical Setup** menu.



Figure 3. Touch Upper Right Corner of the Display

4. Press  to go to second **Setup menu** page.
5. In the second page, press



Serial Port menu displays.

6. Press . **Radio Frequency interface** displays.

7. Press .

8. Enter the required channel number.



NOTE: The default channel number is 27. The wheel weigh pad channel number must match the indicator channel number it will pair with. The Ai-1 indicator supports channels 00 - 38. If using multiple groups of indicators and wheel pads, the channel numbers must be unique for each group.



Figure 4. Channel Keyboard

9. Press . A **Channel** prompt displays.

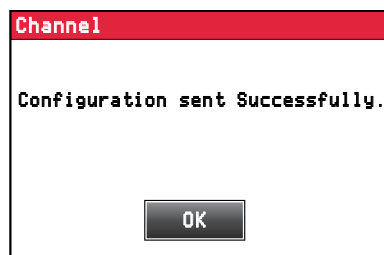


Figure 5. Channel Success Prompt

10. Press  to close the prompt and return to the **Radio Frequency interface** menu.

11. Press  twice.

12. Press .

13. Press . **Calibration** displays.

14. Press . **Scale selection** displays.

15. Press . **Number of Scales** menu displays.

Number of Scales menu displays.

16. Select the number of wheel weigh pads to be used.



NOTE: Up to 16 scales can be configured for wireless connection with each Ai-1 indicator.

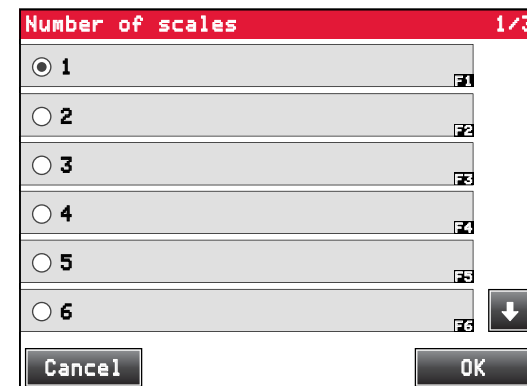


Figure 6. Number of Scales Configuration

17. Press .
18. Ensure all wheel pads that have been configured following the steps in section 1, are turned on.
19. Press . **WMS configuration** displays.
20. Press . **Get WMS configuration** displays.
21. **Gravity value setting** pop-up displays.
22. Enter the gravity value for the area the wheel weigh pads will be used.

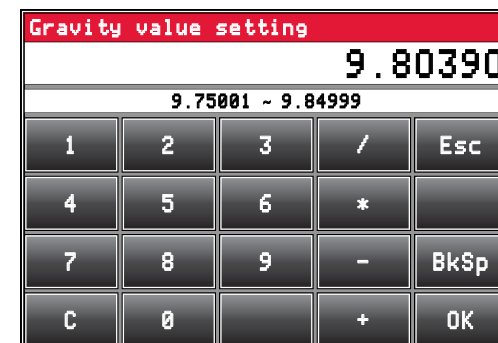


Figure 7. Set Gravity Value

23. Press  to close pop-up and continue.

24. **Get WWS configuration** pop-up displays. Wait while configuration information is retrieved from wheel weigh pads.

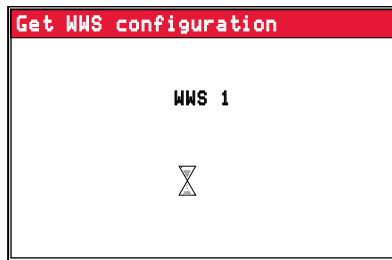


Figure 8. Get WWS configuration Pop-Up

25. Once configuration information is retrieved, the configuration session terminates.

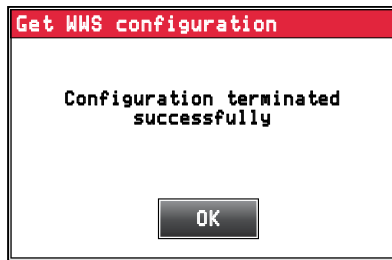


Figure 9. Get WWS configuration Pop-Up

26. Press **OK** to close the pop-up.
27. Press **Esc**.

28. Setup changed pop-up displays.



Figure 10. Setup Changed Pop-Up

29. Press **Yes** to save settings and complete setup.
30. **(Optional)** If indicator and wheel weigh pad units are different, a pop-up may display to update units.

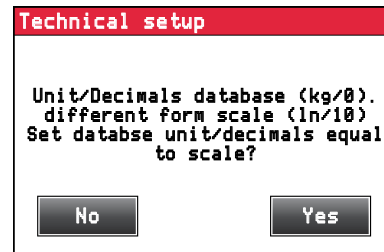


Figure 11. Different Unit Pop-Up

31. Press **Yes** to match units, or **No** to exit without changing.
32. The indicator reboots to **Weigh** mode.

4.0 Initial Setup Parameters

The following parameter windows may display during initial setup before the indicator reboots to **Weigh** mode.

- The **Backup of the Configuration** window — Press **Yes** to backup all settings
- The **Password** window displays — Press **Yes** or **No**, depending on password requirements
- The **Technical Setup** window displays — Press **Yes** to convert the indicator units to match the wheel weigh pad units

5.0 Applications

The Load Ranger wheel weigh pads can be arranged to serve multiple applications. The adjustment from one scenario to another is made quickly and easily with the wireless and portability features of the Load Ranger system. This section highlights several of the arrangements available.

5.1 Wireless Setup

A wireless system allows for weighing with up to 16 connected wheel weigh pads per Ai-1 indicator. The wireless system is connected by following [Section 2.0](#) through [Section 3.0](#)

Typically wireless setup is configured for 2, 3, 4, 5 or 6 pads.



NOTE: Wireless setup with an Ai-1 indicator is not limited to 2 to 6 platforms. The following illustrations show only the most common applications.

Two Platform Applications

Two platform applications include weighing axles of the vehicle individually or trailers with only one axle.

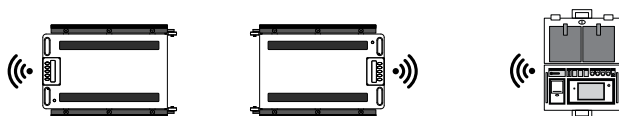
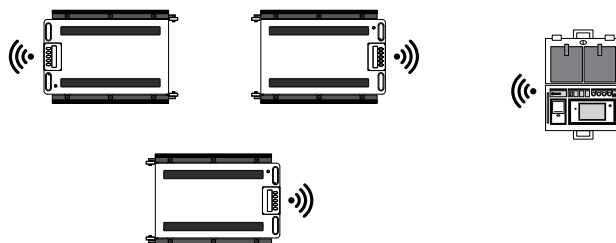


Figure 12. Two Platform Application

Three Platform Applications

Three platform applications include weighing small planes, three-wheeled vehicles or trailers with a support pin.



The size and capacity of the third platform can differ from those of the other platforms

Figure 13. Three Platform Application

Four Platform Applications

Four platform applications include weighing two-axle vehicles, trailers, containers or other items with four support points.

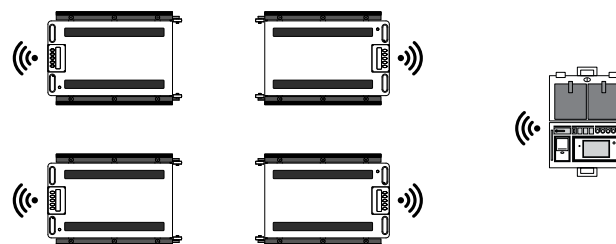


Figure 14. Four Platform Application

Five Platform Applications

Five platform applications include weighing two-axle trailers with a support pin. When weighing both directions, a sixth platform can be used.

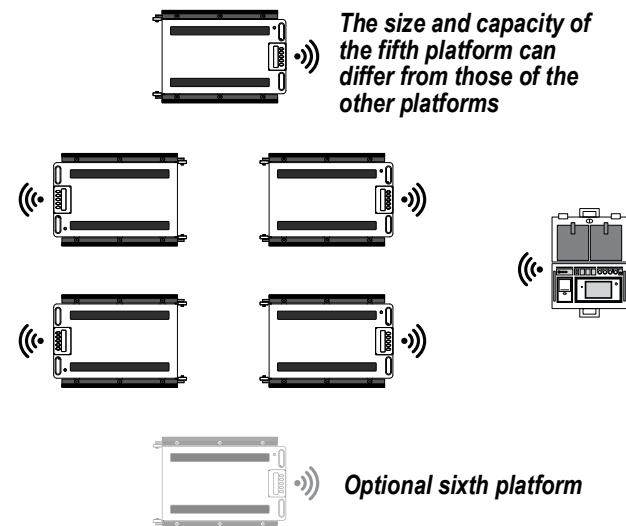


Figure 15. Five Platform Application

Six Platform Applications

Six platform applications include weighing three-axle vehicles or structures with six support points.

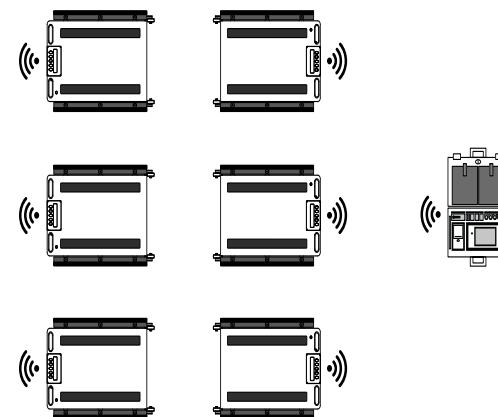


Figure 16. Six Platform Application

5.2 Charging Platforms

The power connection port is located on the underside of the wheel weigh pad. For large weigh pads, the port is located on the black junction box at the wheel side (see [Figure 17](#)). For small weigh pads, the port is located on the junction box at the handle-end of the platform and is the port closest to the handle (see [Figure 18](#)).



Figure 17. Large Weigh Pad



Figure 18. Small Weigh Pad

