

Load Ranger Wheel Weigh Pads

Quick Start Guide

This document provides the procedures necessary to quickly setup the Load Ranger Wheel Weigh Pads and pair them with the Ai-1 Indicator to take weight readings.

Wheel Weigh Pad Configuration

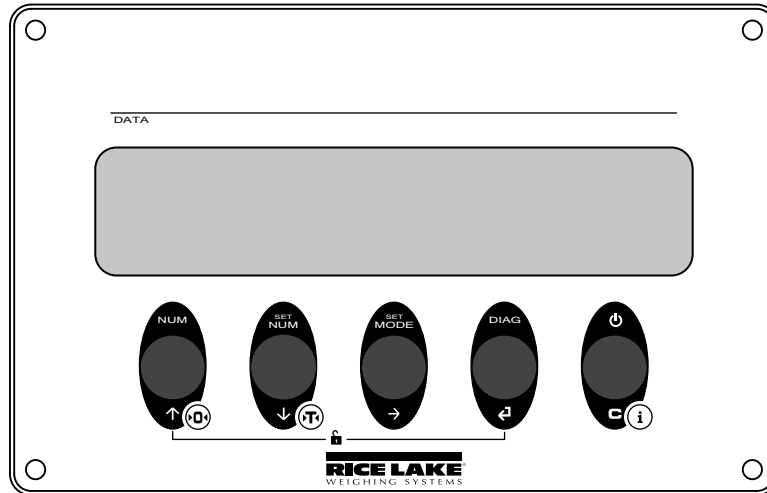


Figure 1. Wheel Weigh Pad Display

1. Press to power on the indicator then press during startup. $\angle RL$ displays.
2. Press three times. $SEr \angle RL$ displays.
3. Press to enter the **Serial** menu. $\angle d$ displays.
4. Press to enter the ID settings.
5. 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, etc.

6. Press to confirm. $bE \angle m \angle t$ displays.
7. Press to enter the **WPAN Initialization** menu. $bE \angle m \angle p$ displays.
8. Press to confirm. $HA \angle t$ displays followed by $bE \angle o f \angle t$. $\angle o n \angle b E$ displays.
9. Press twice. $SAUEP$ displays.
10. Press to confirm. $StoRE$ briefly displays and all the changed parameters are saved.
11. Repeat steps for all wheel weigh pads in the system.

Pairing Ai-1 Indicator with Wheel Weigh Pads

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



Figure 2. Touch Upper Right Corner of the Display

3. Press  **Calibration** .
4. Press  **Scale selection**
1 scale/s .
5. Press  **Number of scales**
1 .

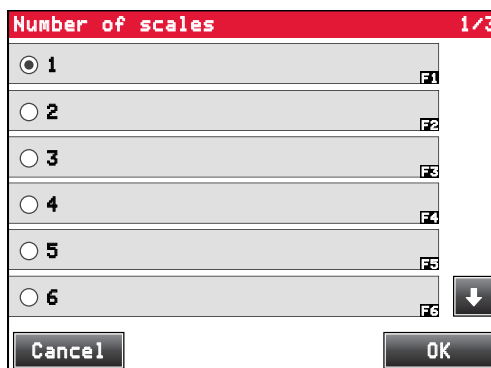


Figure 3. Select Scales

6. Select the number of wheel weigh pads to be used.
7. Press .
8. Press  **WWS configuration** .
9. Press  **WWS pairing** .

10. Press **PAIR** to start pairing process. A prompt displays (Figure 4). Do not press anything at this time.

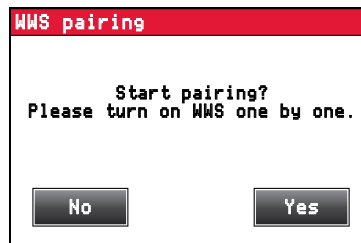


Figure 4. Start Pairing

11. Turn off all of the wheel weigh pads.
 12. Turn on the first weigh pad only (pad assigned ID 01).
 13. Press **Yes** in the prompt window (Figure 4 on page 3) to start the pairing process. **Connecting...** displays alongside the ID number.
 14. Once the serial number of the first wheel weigh pad displays, turn on the second wheel weigh pad (assigned ID 02).

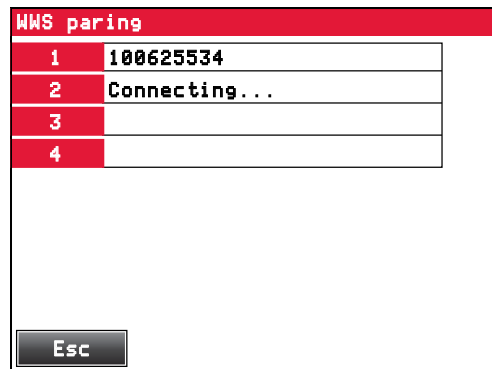


Figure 5. Pairing

15. Repeat this process until all of the weigh pad pin numbers in the desired system are displayed. Once the last wheel weigh pad is paired, a prompt displays.

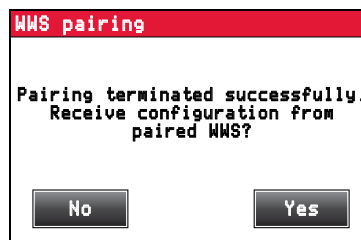


Figure 6. Pairing Successful

16. Press **Yes** to confirm the completion of pairing. The **Gravity Value Setting** keyboard displays.

17. This should save loading weights on all eight scales.

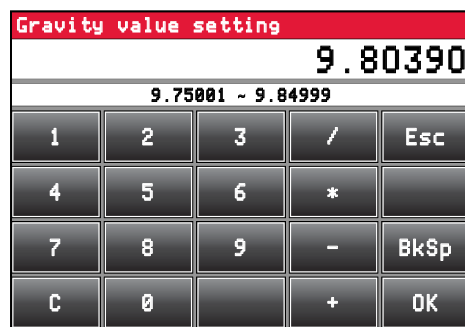


Figure 7. Set Gravity Value

18. Enter the gravity value for the area the wheel weigh pads are to be used in.

19. Press **OK**.

20. Press **←** three times to get back to the **Technical Setup** menu.

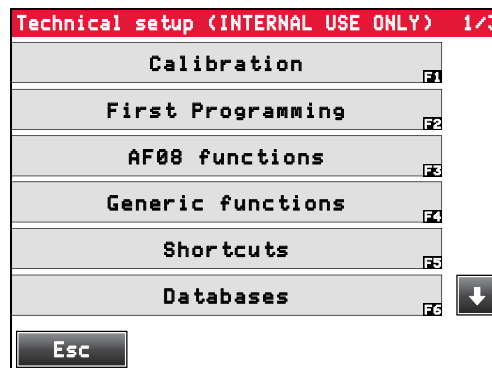


Figure 8. Technical Setup Menu

21. Press **Esc**. Setup changed box displays.



Figure 9. Setup Changed

22. Press **Yes** to save settings and complete setup. Indicator reboots to **Weigh** mode.

Initial Setup Parameters

The following parameter windows 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 if a password is needed
- The **Technical Setup** window displays — Press **Yes** to convert the indicator units to match the weigh pad units

Applications

The Load Ranger 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.



NOTE: For additional Load Ranger Wheel Weigh Pad System information, see the Load Ranger Wheel Weigh Pad System Technical Manual (PN 189612).

Wireless Setup

A wireless system allows for weighing with up to seven connected wheel weigh pads.

Connection Procedure

1. Assign ID numbers to the weigh pads and initialize WPAN.
2. Pair the Ai-1 indicator with the weigh pads.
3. Turn off the weigh pads and the Ai-1 indicator.
4. Connect RS485 cables to the weigh pads data communication ports.
5. Connect the other ends of each RS485 cable to one of the Ai-1 indicator communication ports.



NOTE: The wheel weigh pads can be connected to any of the RS485 ports on the Ai-1 indicator. The pad ID assigned within the weigh pad dictates the scale number and it does not need to match the Ai-1 indicator channel number.

6. Turn on all of the weigh pads.
7. Turn on the Ai-1 indicator. *485 H* briefly displays on weigh pads (*H* represents the assigned pad ID number). *PL.H* then displays on the weigh pads and they are ready for use.

Wired Setup

A wired system allows for weighing up to four connected wheel weigh pads.

The data communication port is located on the underside of the wheel weigh pad. For the RF-MD the port is located at the handle end of the platform and is the port further from the edge. For the RF-WD and RF-XWD the port is located at the end opposite of the platform handles.

Hybrid Wireless Setup

A hybrid system allows for weighing up to 14 connected wheel weigh pads.

A hybrid wireless system allows for the weighing of vehicles with four to seven axles. These larger applications are possible by connecting each axle set of weigh pads together with a cable, so that one weigh pad is able to transfer both sets of weigh data wirelessly to the indicator.



NOTE: Seven wireless and seven wired wheel weigh pads can be connected together for a total of 14 wheel weigh pads.



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