Air Weigh

LoadMaxx Plus
QuickLoad Plus

User Guide

For Trailers

Air-Weigh Customer Support: 888-459-3247

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Air-Weigh App

Download the Air-Weigh app and view weight data on any smart device. Available for download in the Apple and Android app stores.

Overview

With an easy to use icon-based interface, you'll find that using your new trailer scale is simple. The Air-Weigh Trailer Scale provides on-the-ground weights with an accuracy of 3% per axle group for mechanical suspensions and 300 lbs (140 kgs) per axle group for air ride suspensions.

In this manual, we will demonstrate how to calibrate your scale, set a PIN number, and set your alarms. If you want to learn more, visit www.air-weigh.com to view our videos or call our customer support department at 888-459-3247.

How to Use the Touch Screen

- Touch a picture icon or menu button to navigate to the screen it represents
- Use the ⬆⬇ arrows to navigate through options or to increase/decrease digit values
- Use ➡ to select the next digit. If you get to the right-most digit, touching ➡ will wrap to the left-most digit.
- Press ✓ₒₖ to confirm your selection
- Return to the previous menu by pressing ↰

Power On/Off

To turn the display on, touch any part of the screen.

To turn the display off:

- Press 🔧 to access the settings menu

- Press ⏲ and select "Display off" or

- Press ⏲ again and select the amount of time you'd like the scale to remain on after start up.

Weight Screen		Accept Selection	
Alarm Menu / Auxiliary Output alarm		Setup Menu	
Display Time-Out entry		Create PIN entry	
Additional Settings Menu		Setup Wizard	
Scroll up or increase the selection digit		Previous Screen	
Scroll down or decrease the selection digit		Full Trailer	
No Previous items		Dual HCV Trailer	
No further items		Single HCV Trailer	
Next digit (during data entry)		Tandem Axle Trailer	
Alarm Time-Out entry			
Alarm Weights menu			
Alarm Lights menu			
Warning Weight entry			
Alarm Weight entry			
Alarm light disabled and No Auxiliary Output			
Calibration menu			
Weight Adjust entry			
Diagnostic menu			
Language Selection			

Getting Started

Use the setup wizard to set your scale configurations.

1. With power to the scale, turn on the display. Touching the screen will wake the trailer scale up if it has powered down
2. From the main screen, select the wrench icon to enter the Settings menu
3. Select the gears icon
4. Select the wand icon to enter the wizard
5. Selecting **YES** will **erase** previous settings and calibrations before accepting new information
6. Use the arrows to select your language
7. Select LB or KG for weight readings
8. Select to set you PIN now or later

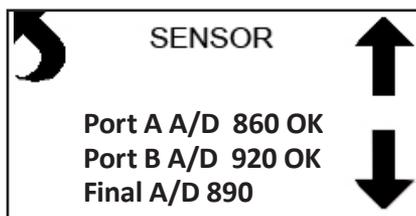**Note:** we recommend setting a PIN to protect your calibration settings

9. Select to accept your PIN
10. Select your trailer configuration. See trailer icon examples on the previous page
11. Select MANUAL CALIBRATION or FACTORY CALIBRATION
12. Manual calibration is recommended in most cases
13. You are now ready to calibrate your scale

Note: If you set a PIN for your scale, you will not have access to calibration, advanced settings, or alarms until the PIN is entered. If you forget your PIN, contact Customer Support at 888-459-3247.

Reading and Adjusting the A/D Values
For Mechanical suspension only

1. With power to the scale, turn on the display. Touching the screen will wake the trailer scale up if it has powered down
2. From the main screen, select the wrench icon 🔧 to enter the Settings menu
3. Select the medical bag icon 🧰 to enter the Diagnostic menu
4. Select the down arrow ⬇

You are now viewing sensors 1 and 2. For empty trailer installs, the sensor values should range from 750-1250 during installation. After the break-in period, a reading of 500-1500 is acceptable when the trailer is empty. If your A/D readings are outside of these ranges, contact our Support Team. Refer to the **Setting the A/D Values** section in the **Installation Guide** to adjust these values.

```
        SENSOR           ⬆

   Port A A/D  860 OK
   Port B A/D  920 OK    ⬇
   Final A/D 890
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Before You Calibrate
- Locate an in-ground scale that will break your weights down per axle group
- It is best to calibrate both empty and heavy weights from the same in-ground scale
- Calibrate and weigh your trailer using only tractors with the same fifth wheel height
- Verify that sensor values or A/D readings are within range
- Using ONLY the tractor brakes, come to a gentle rolling stop on flat, level ground

Note: Air-Weigh is not liable if you load past capacity and overload the sensors.

Break in Period

After final torquing, the sensor will require a break-in period before it can be calibrated. We recommend driving the vehicle in normal operation for at least 100 miles before performing the calibration.

Calibrating
Single, Dual Height Control Valve and Mechanical suspension

Note: In this example, we will first enter the EMPTY calibration. The HEAVY calibration will be entered second. You can start with EMPTY or HEAVY.

Calibrating your Scale

1. With power to the scale, turn on the display. Touching the screen will wake it up if it has powered down
2. From the main screen, select the wrench icon to enter your EMPTY calibration weight
3. Select the calibration icon
4. Select the EMPTY Calibration icon (smaller of the two weight icons)
5. Confirm that the trailer is EMPTY
6. Enter the EMPTY weight you obtained from a certified scale and select OK
7. Repeat the above steps to now enter your HEAVY calibration

NOTE: In order to set multiple calibrations for different trailer configurations, you must have gone through the setup wizard and picked the correct trailer icons during the initial setup. Multiple calibrations is not an option for dual or full trailer setups. Contact the Air-Weigh support team for full details on multiple calibrations.

Calibrating on a Full Trailer

Note: In this example, we will first enter the EMPTY calibration. The HEAVY calibration will be entered second. You can start with EMPTY or HEAVY.

Calibrating your Scale

1. With power to the scale, turn on the display
2. From the main screen, select the wrench icon to enter your front EMPTY calibration weight
3. Select the calibration icon
4. Select the EMPTY calibration icon (smaller of the two weight icons)
5. Choose the <u>front</u> axle group icon (icon on the <u>left</u>)
6. Confirm the trailer is EMPTY
7. Enter the EMPTY weight you obtained from a certified scale and select OK
8. Return to the home screen and select the wrench icon to enter your rear EMPTY weights
9. Select the calibration icon
10. Select the EMPTY calibration icon
11. Choose the <u>rear</u> axle group icon (icon on the <u>right</u>)
12. Confirm the trailer is EMPTY
13. Enter the EMPTY weight you obtained from a certified scale and select OK
14. Repeat the above instructions again to enter your HEAVY weights on both the front and rear axle

The weight screen will automatically load and will show you the full trailer weight. Use the right arrow to view the front and rear axle weights individually.

Setting Your Alarms

The LoadMaxx Plus and QuickLoad Plus Trailer Scales provide two individually programmable alarm settings. The alarm cable may have been provided with your kit or ordered separately.

The alarm cable can be connected to any self-grounded alarm device with a current draw of 1.0 amps or less. The alarm output voltage will be the same as the vehicle voltage. Ensure that the alarm light operates at this voltage level. You must install a relay for any device that draws more than 1.0 amps, or for a device that needs a different voltage from that of the vehicle. Do not disturb the sealed end of the wire if alarm is not installed.

To use the alarm feature, attach the gray alarm output wire stemming from the scale to a user-supplied alarm light. Wire is marked ALARM. Route the ground wire/s for the alarm/s to an existing ground or to the trailer frame. Alarms will activate when a programmed warning weight or alarm weight limit is reached. The limits activating this feature are set by the user.

Warning weight output is a slow flash, while alarm weight output is a fast pulse.

1. With power to the scale, turn on the display. Touching the screen will wake it up if it has powered down.
2. From the main screen, select the bell icon

Alarms are on when the box next to the top left bell is checked

3. To set the alarm time-outs, select the clock/bell icon
4. To set the alarms weights, choose the weight icon
5. Select the light/weight icon on the right, the icon on the left is used for the warning weight alarm
6. Enter your desired target weights and select

Limited Warranty

Air-Weigh warrants (the "Limited Warranty") that the Products will be free from defects in material and workmanship under normal use and service with proper maintenance for the following time periods:

> (a) for new Scale kits, the Limited Warranty period will be 3 years;
>
> (b) for new parts and accessories sold separately, the Limited Warranty period will be 1 year; and
>
> (c) for repaired or refurbished items, including repaired or refurbished Scale kits and repaired or refurbished parts and accessories sold separately, the Limited Warranty period will be 90 days.

If any Product is determined to not conform to this Limited Warranty during its applicable Limited Warranty period, Air-Weigh will, at its exclusive option, either repair or replace the Product.

Limitations of Limited Warranty. Air-Weigh will have no obligation under the Limited Warranty with respect to any product if (a) Buyer fails to notify Air-Weigh in writing during the warranty period of a non-conformity, or (b) Buyer or any other person, entity, or governmental authority uses, misuses, or neglects the product in a manner inconsistent with the product's specifications or directions for use or maintenance, modifies the product or improperly installs, handles, or maintains the product.

No Repair or Modification of the products. Except as explicitly authorized or in a separate written agreement with Air-Weigh, Buyer will not service, repair, modify, alter, replace, reverse engineer, or otherwise change any of the products.

Disclaimer of All Other Warranties. EXCEPT FOR THE LIMITED WARRANTIES SET OUT ABOVE, NEITHER AIR-WEIGH NOR ANY PERSON OR ENTITY ON AIR-WEIGH'S BEHALF HAS MADE OR MAKES FOR BUYER'S BENEFIT ANY EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY WHATSOEVER, INCLUDING ANY WARRANTIES OF: (i) MERCHANTABILITY; (ii) FITNESS FOR A PARTICULAR PURPOSE; (iii) TITLE; OR (iv) NON-INFRINGEMENT; WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. BUYER ACKNOWLEDGES THAT IT HAS NOT RELIED ON ANY OTHER REPRESENTATION OR WARRANTY MADE BY AIR-WEIGH, OR ANY OTHER PERSON OR ENTITY ON AIR-WEIGH'S BEHALF.

Limitation of Liability.

IN NO EVENT WILL AIR-WEIGH BE LIABLE FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, PUNITIVE, OR ENHANCED DAMAGES, LOST PROFITS OR REVENUES, OR DIMINUTION IN VALUE, ARISING OUT OF OR RELATING TO ANY BREACH OF THESE TERMS, REGARDLESS OF WHETHER OR NOT THE DAMAGES WERE FORESEEABLE, WHETHER OR NOT AIR-WEIGH WAS ADVISED OF THE POSSIBILITY OF THE DAMAGES, OR THE LEGAL OR EQUITABLE THEORY (CONTRACT, TORT, OR OTHERWISE) ON WHICH THE CLAIM IS BASED.

IN NO CASE WILL AIR-WEIGH'S AGGREGATE LIABILITY ARISING OUT OF OR RELATED TO THESE TERMS, WHETHER ARISING OUT OF OR RELATED TO BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, EXCEED THE TOTAL OF THE AMOUNTS PAID TO AIR-WEIGH FOR THE PRODUCTS.

THE FOREGOING LIMITATIONS APPLY EVEN IF BUYER'S REMEDIES UNDER THESE TERMS FAIL OF THEIR ESSENTIAL PURPOSE.

Procedure For Warranty Claims

ALL customers should first contact Air-Weigh Customer Support Department at (888) 459-3247 for questions regarding the use, operation, repair or return of any Air-Weigh product.

In the event Air-Weigh requests to examine the product prior to disposition OR for repair or replacement, Air-Weigh requires a Return Material Authorization (RMA) number be issued before the item is returned. Customer Support will issue the RMA number. Please reference this RMA number in all correspondence.

Claimed items shall be shipped freight pre-paid to:
Air-Weigh
Customer Support Department
1720 Willow Creek Circle, Suite 510
Eugene, Oregon 97402, USA

The Air-Weigh RMA number **must** appear on the outside of the return packaging. Air-Weigh shall examine returned material within 30 days after receipt, or sooner if mutually agreed upon. If Air-Weigh determines that the part or assembly was defective in material or workmanship and within the warranty period, Air-Weigh will repair or replace the part or assembly and return freight pre-paid. In the event Air-Weigh determines that the part or assembly cannot be repaired or replaced and is within the warranty period, a credit not to exceed the purchase price will be issued to the Air-Weigh customer.

For our customers using purchase orders Air-Weigh will process a credit memo and notify the customer by email or fax. The customer will process a corresponding debit memo and notify Air-Weigh accordingly.

If the part or assembly received by Air-Weigh does not meet the requirements of the warranty program set forth above, at the Air-Weigh customer's request the part or assembly will either be discarded, returned freight collect, or repaired or replaced at the Air-Weigh customer's expense and returned freight collect.

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