



RICE LAKE RL-DBS-2 Dual-Range Digital Baby Scale Instruction Manual

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RL-DBS-2 Dual-Range Digital Baby Scale Technical Manual



para ver todos los materiales
RLWS disponibles en Español

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The most current version of this publication, software, firmware, and all other product updates can be found on our website: www.ricelake.com

Revision History

This section tracks and describes the current and previous manual revisions for awareness of major updates and when the updates took place.

Revision	Date	Description
F	06/08/2020	Rev history established after RevF
G	04/15/2022	Updated calibration procedure

Table i. Revision Letter History
RL-DBS-2 Dual-Range Digital Baby Scale

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Introduction

The Rice Lake Dual-Range Digital Baby Scale (RL-DBS-2) provides precise weighing of babies for accurate, reliable, and repeatable weighments. Movement compensation technology eliminates errors caused by a spontaneous movement of the baby and the weight can be displayed in pounds/ounces or in kilograms.



Manuals and additional resources are available from Rice Lake Weighing Systems at www.ricelake.com/manuals

Warranty information can be found on the website at www.ricelake.com/warranties



Figure 1-1. RL-DBS-2 Dual-Range Digital Baby Scale

1.1 Safety

Safety Signal Definitions:



DANGER Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Includes hazards that are exposed when guards are removed.



WARNING Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Includes hazards that are exposed when guards are removed.



CAUTION Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.

IMPORTANT Indicates information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

General Safety



Do not operate or work on this equipment unless this manual has been read and all instructions are understood. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing Systems dealer for replacement manuals.



WARNING Failure to heed could result in serious injury or death.

Ensure every individual operating or working with this unit has read and understands the following safety information.

Do not transport the scale with an infant on the weighing tray.

Clean the scale regularly to avoid cross-contamination.

Do not allow minors (children) or inexperienced persons to operate this scale.

Do not use in the presence of flammable materials.

Do not use this product if any of the components are loose or cracked.

Do not drop the scale or subject it to violent shocks.

For accurate weighing, the scale must be placed on a level, stable surface.

Weight exceeding the maximum rated scale capacity may damage the scale.

Avoid contact with excessive moisture.

Do not make alterations or modifications to the scale; any alterations void the warranty.

For accurate weighing, verify the proper setup is complete prior to first use. See Section 3.2 on page 4.

Operation at voltages and frequencies other than specified could damage the scale.

Utilizing adapters not supplied by Rice Lake Weighing Systems voids all warranties.

Setup

The RL-DBS-2 comes fully assembled and includes the scale and a 120 V or 230 V AC adapter. Immediately after unpacking, visually inspect the RL-DBS-2 to ensure all components are included and undamaged. If parts were damaged in shipment, notify Rice Lake Weighing Systems and the shipper immediately. Use the following instructions for scale setup:

1. Place the scale on a sturdy, level surface.
2. Connect the 120 V or 230 V AC adapter to the back of the scale.
3. Plug the AC adapter into a power source.

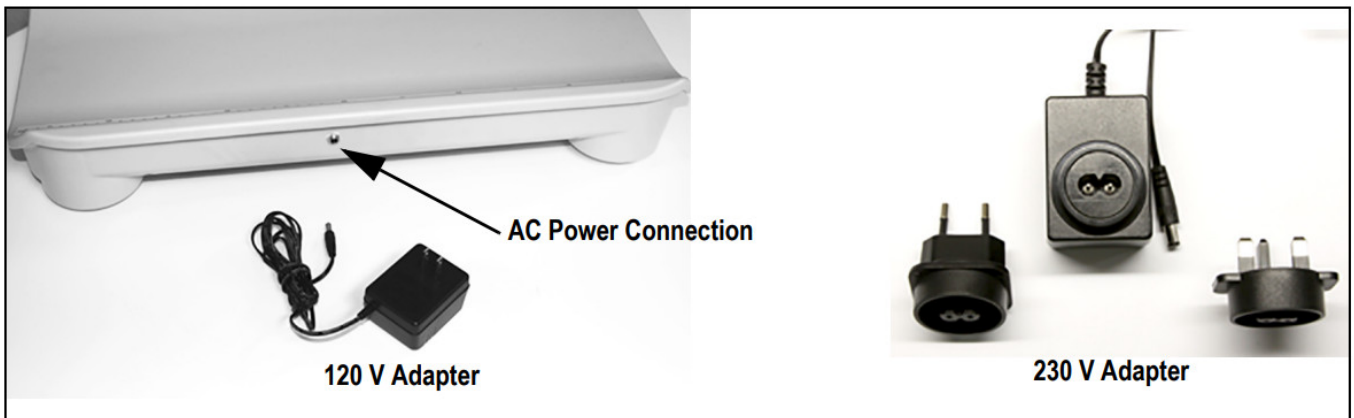


Figure 2-1. AC Power Connection Site

The RL-DBS-2 can also be powered by four AA alkaline batteries if an additional power source is not available. A battery-powered scale automatically turns off after two minutes of not being used to save battery life. Replace the batteries or connect to an AC power source as soon as possible if the low battery indicator (Lo) displays.

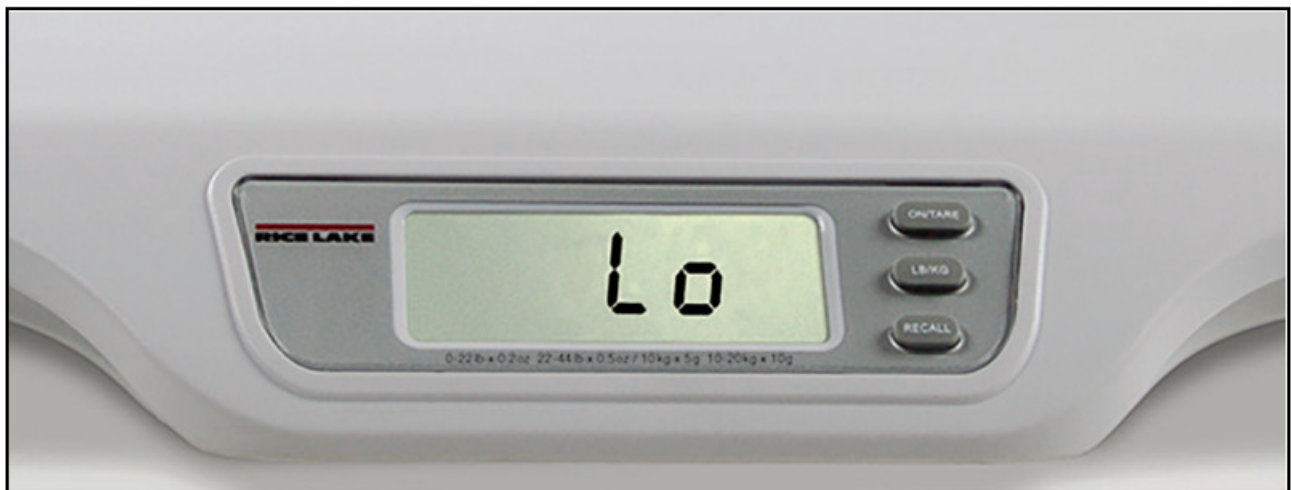


Figure 2-2. Low Battery Indicator

Operation

The RL-DBS-2 accurately weighs babies up to 44 lb (20 kg) and features a dual-range capacity for increased precision from 0-22 lb (0-10 kg). The weighing surface also includes a ruler for measuring the length of the baby. The built-in ruler can measure babies up to 22.5 in (57 cm).

**Note**

If the scale is battery-powered and has not been used for two minutes, it automatically turns off to save battery life.

3.1 Display Descriptions

The following section describes the RL-DBS-2 operating keys and their functions.

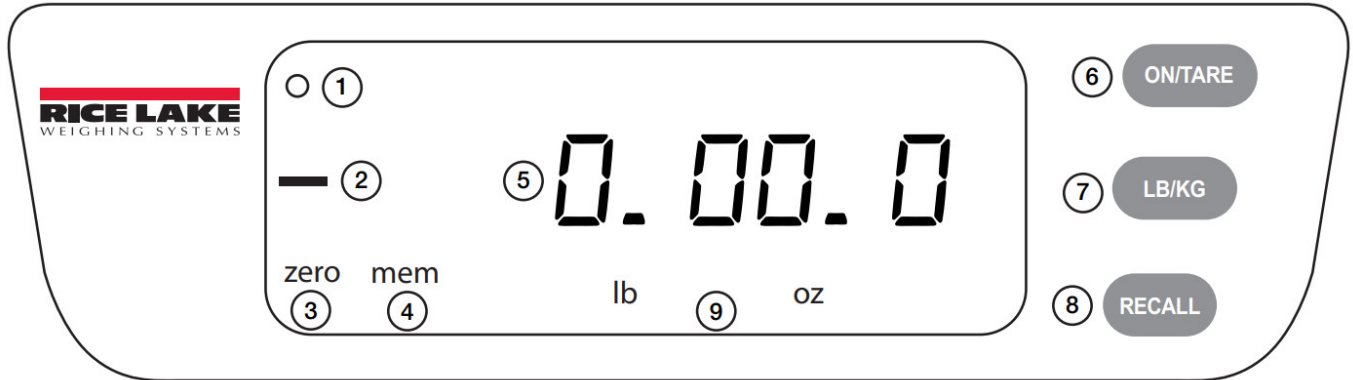


Figure 3-1. RL-DBS-2 Display

Item	Description	Function
1	Motion annunciator	Displays when a weight reading is complete
2	Negative/Minus annunciator	Indicates a negative weight reading
3	Zero annunciator	Indicates the scale is stable and ready for use
4	Memory annunciator	Indicates the last weight measurement is displayed after pressing RECALL
5	6-Digit LCD digital display	Displays the weight in pounds/ounces or kilograms
6	On/Off	Press to turn On Press and hold to turn Off
	Tare	With weight on the scale, short press to tare off the weight, 0 displays
7	LB/KG	Selects pounds/ounces or kilograms
8	RECALL	Recalls the last weight measurement Example: Weigh a baby on the scale and then remove the baby Press RECALL and the baby's weight displays again
9	LB/OZ annunciator	Indicates the scale is weighing in pounds/ounces
	KG annunciator	Indicates the scale is weighing in kilograms

Table 3-1. Front Panel with Annunciators Displayed




Note

The RL-DBS-2 comes pre-calibrated from the factory.

3.2 Initial Setup

Use the following steps to set up and verify the RL-DBS-2 upon initial power-up and periodically thereafter.

1. Plug AC adapter cable into the back of the scale (Figure 2-1 on page 2) and the AC adapter plug into a power source.
2. Turn on the scale. A self-test runs and 0.00.0 lb or 0.00 kg displays when complete.
3. Place a weight, not exceeding 40 lb, on the scale. The weight measurement is complete when 0 displays.
4. Press  to select a unit of measure, lb/oz or kg.

5. Remove the weight from the scale. To display the weight again, press **RECALL**.



If the setup procedure fails, see Section 5.3 on page 8. If the problem is not resolved, refer to a qualified service provider.

3.3 Set Units

The RL-DBS-2 can be set to display weights in lb/oz only, kg only, or to toggle between lb/oz and kg units on the scale.

3.3.1 KG Units Only

Lock the weight units to display in kg only.

1. Ensure the scale is turned on.
2. Press **LB/KG** to change the displayed units to kg.
3. Press and hold **LB/KG** for five seconds until kg flashes.
4. Release **LB/KG**. The weight units are now locked in kg. Pressing **LB/KG** does not switch units to lb/oz.

3.3.2 LB/OZ Units Only

Lock the weight units to display in lb/oz only.

1. Ensure the scale is turned on.
2. Press **LB/KG** to change the displayed units to lb/oz.
3. Press and hold **LB/KG** for five seconds until lb oz flashes.
4. Release **LB/KG**. The weight units are locked in lb/oz. Pressing **LB/KG** does not switch units to kg.

3.3.3 Unlock Units


Unlock the weight units to toggle between lb/oz and kg.

1. Ensure the scale is turned on.
2. Press and hold **LB/KG** for five seconds until kg or lb oz flashes.
3. Release **LB/KG**. Pressing **LB/KG** toggles units between lb/oz and kg.

3.4 Weigh With A Tare


The tare function removes the weight of additional items on the scale, such as a pad or blanket, at the time the baby is weighed.

1. Turn on the scale. 0:0.0 lb oz or 0.00 kg displays.
2. Place a pad on the weighing tray, ensuring the edges of the pad are not touching the stand. O displays when the weight reading is complete.
3. Press **ON/TARE** to remove the weight of the pad or any other accessory on the weighing tray.
4. Place a baby on the scale. O displays when the weight reading is complete.

5. Remove the baby from the scale.
6. Press  to display the weight again, if necessary.

3.5 Weigh Without A Tare

Use this procedure when there are no additional items on the scale at the time the baby is weighed.

1. Turn on the scale. 0:0.0 lb oz or 0.00 kg displays.
2. Place a baby on the scale. O displays when the weight reading is complete.
3. Remove the baby from the scale.
4. Press  to display the weight again, if necessary.

Calibration

This section contains procedures on how to calibrate the RL-DBS-2 based on the year of the firmware version.

4.1 Firmware Version 2016 and After

Use the following instructions to calibrate the RL-DBS-2 with a newer version of the firmware.



Ensure the scale is installed on a level surface.







The scale needs to be off at the start of the calibration procedure.

Calibration is performed using two 10 lb calibration weights or two 10 kg calibration weights.





4.1.1 Toggling Calibration between Pounds and Kilograms

IMPORTANT The RL-DBS-2 must be configured to calibrate in pounds or kilograms. Ensure that the correct calibration units have been selected before calibrating.

Perform the following steps to select and toggle calibration units from pounds to kilograms.

1. Press  to turn the scale on.
2. Press  and  (at the same time). UNIT 1 displays.
3. Press . CAL displays and lb lights.
4. Press  to switch to kg. CAL displays and kg lights.
5. Press  and hold to turn the scale off.

4.1.2 Calibrating with Pounds

1. Press  and  (at the same time). The raw ND counts display.
2. Press  again. CAL10 displays.
3. Load the scale with a 10 lb test weight.
4. Press  CAL20 displays.
5. Load the scale with the second 10 lb test weight to equal a total of 20 lb.
6. End briefly displays and the scale returns to weigh mode. 20.00 displays.
7. Place a known weight onto the scale to confirm the correct calibration. If not correct, repeat the calibration procedure.

4.1.3 Calibrating with Kilograms

1. Press **LB/KG** and **ON/TARE** (at the same time). The raw A/D counts display.
2. Press **ON/TARE** again. CAL10 displays.
3. Load the scale with a 10 kg test weight.
4. Press **ON/TARE**. CAL20 displays.
5. Load the scale with the second 10 kg test weight to equal a total of 20 kg.
6. End briefly displays and the scale returns to weigh mode. 20.00 displays.
7. Place a known weight onto the scale to confirm the correct calibration. If not correct, repeat the calibration procedure.

4.2 Firmware Version Prior to 2016

Use the following instructions to calibrate the RL-DBS-2 with an older version of the firmware.

1. Ensure the scale is installed on a level surface.



The scale needs to be off at the start of the calibration procedure.

2. If using kg weights, the scale needs to be set up using the following instructions (skip to step 3 if using lb weights).

- Press **LB/KG** and **ON/TARE** hold and (at the same time) until the scale displays CAL.
- Release the keys. The scale displays the raw A/D counts.
- Press **RECALL**. CAL displays and lb lights.
- Press **LB/KG** to switch to kg. CAL displays and kg lights.
- Press and hold **ON/TARE** to turn the scale off.

3. Press **LB/KG** and **ON/TARE** hold and (at the same time) until CAL displays.
4. Release the keys. The raw A/D counts display.
5. Press **ON/TARE**. 0.00 displays.
6. Load the scale with a 40 lb or 20 kg test weight.
7. Press **ON/TARE** again. 40.00 (lb) or 20.00 (kg) displays.
8. Press **ON/TARE** again. Pass displays and the scale turns off automatically.
9. Remove weight from the scale.
10. Turn on the scale.
11. Place a known weight onto the scale to confirm the correct calibration. If it is not correct, repeat the calibration procedure.

Maintenance

The following section provides instructions for maintaining, cleaning, and troubleshooting the RL-DBS-2.

IMPORTANT Maintenance operations not described in this section must be performed by qualified service

personnel.

5.1 Basic Maintenance

- Check the scale for proper operation and function before first use and after periods of non-use.
- Inspect the scale. If the scale does not operate correctly, contact qualified service personnel.
- Check the overall appearance of the entire scale for any obvious signs of damage.
- Inspect the condition of the AC adapter for cord fraying or for broken or bent prongs.

5.2 Cleaning

Proper care and cleaning are essential to ensure a long life of accurate and effective operation. Disconnect the scale from the AC power source before beginning the cleaning process.

Do not immerse the scale into cleaning solutions or other liquids. Do not use Isopropyl alcohol or other solutions to clean the display surface.

IMPORTANT

1. Clean all external surfaces with a clean, damp cloth or tissue. Mild soap and water solution can be used.
2. Dry with a clean, soft cloth.

5.3 Troubleshooting

Use the following instructions to troubleshoot any errors with the scale.

Symptom	Possible Cause	Corrective Action
Scale does not turn on	Batteries are dead	Replace batteries or connect scale to a power source
	Electrical outlet is faulty	Use a different electrical outlet
	Power supply is faulty	Replace the adapter NOTE: Utilizing adapters not supplied by Rice Lake Weighing Systems voids all warranties
	There is weight on or an object interfering with the scale	Remove baby, weight or interfering object from scale
	Weight was placed on the scale before 0.0 was displayed	Remove baby or weight from the scale; zero scales and begin weighing process again

Scale displays questionable weight or does not zero	Scale is not on a level surface	Place the scale on a stable surface and begin the weighing process again
	Weighing tray is not placed properly	Ensure the weighing tray is properly installed
	Scale is out of calibration	Check scale calibration with a known weight value; perform a new calibration if the calibration is incorrect (see Section 4.0)
o_Ld message is displayed	Load on the scale exceeds the capacity	Remove excess weight and use scale according to its stated limit
Err message is displayed	RECALL key was pressed with insufficient weight on the scale	Place more than 2 lb 30 oz on the scale

Table 5-1. Troubleshooting Table

Limited Warranty

Rice Lake Weighing Systems (RLWS) warrants that all RLWS equipment and systems properly installed by a Distributor or Original Equipment Manufacturer (OEM) will operate per written specifications as confirmed by the Distributor/OEM and accepted by RLWS. All systems and components are warranted against defects in materials and workmanship for two years.

RLWS warrants that the equipment sold hereunder will conform to the current written specifications authorized by RLWS. RLWS warrants the equipment against faulty workmanship and defective materials. If any equipment fails to conform to these warranties, RLWS will, at its option, repair or replace such goods returned within the warranty period subject to the following conditions:

- Upon discovery by Buyer of such nonconformity, RLWS will be given prompt written notice with a detailed explanation of the alleged deficiencies.
- Individual electronic components returned to RLWS for warranty purposes must be packaged to prevent electrostatic discharge (ESD) damage in shipment. Packaging requirements are listed in a publication, Protecting Your Components From Static Damage in Shipment, available from RLWS Equipment Return Department.
- Examination of such equipment by RLWS confirms that the nonconformity actually exists, and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair, or improper testing; RLWS shall be the sole judge of all alleged non-conformities.
- Such equipment has not been modified, altered, or changed by any person other than RLWS or its duly authorized repair agents.
- RLWS will have a reasonable time to repair or replace the defective equipment. Buyer is responsible for shipping charges both ways.

- In no event will RLWS be responsible for travel time or on-location repairs, including assembly or disassembly of equipment, nor will RLWS be liable for the cost of any repairs made by others.

These warranties exclude all other warranties, expressed or implied, including without limitation warranties of merchantability or fitness for a particular purpose. Neither RLWS nor distributor will, in any event, be liable for incidental or consequential damages.

RLWS and buyer agree that RLWS's sole and exclusive liability hereunder is limited to repair or replacement of such goods. In accepting this warranty, the buyer waives any and all other claims to the warranty.

Should the seller be other than RLWS, the buyer agrees to look only to the seller for warranty claims.

No terms, conditions, understanding, or agreements purporting to modify the terms of this warranty shall have any legal effect unless made in writing and signed by a corporate officer of RLWS and the Buyer.

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Compliance

EU DECLARATION OF CONFORMITY

EU-KONFORMITÄTSERKLÄRUNG DECLARATION UE DE CONFORMITE

Rice Lake Weighing Systems 230

West Coleman Street

Rice Lake, Wisconsin 54868

United States of America

Type/Typ/Type: RL-DBS, RL-DBS-2 baby scale

We declare under our sole responsibility that the products to which this declaration refers to, is in conformity with the following standard(s) or other regulations document(s).

EU Directive	Certificates
2014/30IEU EMC	—
2014/35IEU low voltage directive	—
2011/65/EU RoHS	—

Signature: Brandi Harder

Type Name: Brandi Harder

Quality Manager

Place: Rice Lake, WI USA

Date: April 16, 2020

Specifications

Capacity:

0-22 lb x 0.2 oz (0-10 kg x 5 g)

22-44 lb x 0.5 oz (10-20 kg x 10 g)

Power Requirements:

Four AA alkaline batteries (included)

120 V or 230 V AC adapter (included)

Adapter is UL and C-UL approved

Environmental:

Operating temperature: 50 to +104° F (10 to +40° C)

Storage temperature: -4 to +140° F (-20 to +60° C)

Humidity: < 80% relative humidity

Dimensions (L x W x H):

23.6" x 15.0" x 3.9" (60.9 x 38.1 x 9.9 cm)

Weight:

5.26 lb (2.5 kg)

Warranty:

Two-year limited warranty



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230 W. Coleman St. • Rice Lake, WI 54868 • USA

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www.ricelake.com

April 15, 2022

PN 168522 Rev G



Technical training seminars are available through Rice Lake Weighing Systems.



Course descriptions and dates can be viewed at www.ricelake.com/training

or obtained by calling 715-234-9171 and asking for the training department.

Rice Lake continually offers web-based video training on a growing selection of product-related topics at no cost. Visit www.ricelake.com/webinars







Visit our website www.RiceLake.com

Documents / Resources

 <p>RL-DBS-2 Dual-Range Digital Baby Scale</p> <p>Technical Manual</p>	<p>RICE LAKE RL-DBS-2 Dual-Range Digital Baby Scale [pdf] Instruction Manual</p> <p>RL-DBS-2, Dual-Range Digital Baby Scale, RL-DBS-2 Dual-Range Digital Baby Scale</p>
 <p>RL-DBS-2 Dual-Range Digital Baby Scale</p> <p>Technical Manual</p>	<p>RICE LAKE RL-DBS-2 Dual Range Digital Baby Scale [pdf] User Manual</p> <p>RL-DBS-2, Dual Range Digital Baby Scale, RL-DBS-2 Dual Range Digital Baby Scale, Digital B aby Scale, Baby Scale, Scale</p>

References

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