

RL-650 Neonatal Scale

650-10-1

Technical Manual



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1.0 Introduction

The RL-650 Series Neonatal Scale provides precise weighing of infants and neonates. The scale is equipped with Motiontrap™, a special motion sensing weighing technology, which compensates for involuntary movement caused by an active infant. The infant's weight can be displayed in pounds/ounces or in kilograms/grams. The weight is displayed until reweighing is performed or until the scale zeros out.

There are precautions that must be taken to prevent injury to the baby and damage to the scale. See [Section 1.2 on page 2](#). Follow all instructions for installation and usage, included in this manual. The manufacturer is not responsible for any damage or injury from incorrect operation or manipulation by the user.



Figure 1-1. RL-650 Series Neonatal Scale

1.1 Standard Features

- Movement compensation technology
- Two-sided tray with built in measuring tape
- Hold function
- Reweigh
- lb/kg toggle key
- RS-232 or USB output
- Auto power-off
- Low battery indicator
- Six AA Lithium Ion batteries, included, offer an average of 25 hours of continuous use.

1.1.1 Options

- AC Adapter

1.2 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.



Failure to heed could result in serious injury or death.

Never leave an infant unattended on the scale

Ensure weighing tray is secured to scale base prior to placing a neonate/infant on weighing tray.

Do not transport the scale with the infant in the weighing tray.

Do not use around flammable materials.

Scale should only be used to determine weight of babies/neonates. It is not intended to diagnose, prevent and monitor diseases.

To avoid cross contamination, the scale plate must be cleaned after each use. Avoid direct skin contact during weighing. Use disposable paper towels or bed pads for each scale.

Operation at other voltages than specified could damage the equipment.

Rice Lake Weighing Systems offers optional adapters. Utilizing an adapter not supplied by us voids all warranties.

Do not modify this scale without authorization of the manufacturer.

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

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

For accurate weighing, verify proper operation according to the procedure described in this manual before each use.

1.3 Information Symbols

The International Electro-Technical Commission (IEC) has established a set of symbols for medical electrical equipment, which classify a connection or warning as a potential hazard.

The classification of symbols is as follows.



Type BF (Body Protected)

This means that the unit complies with the specified requirements of this standard to provide protection against electric shock.



Waste Electrical and Electronic Equipment (WEEE).

The device can be sent back to the manufacturer for recycling or proper disposal. Alternatively, the device must be disposed in accordance with national laws when scale is no longer used.

1.4 RL-650 Display

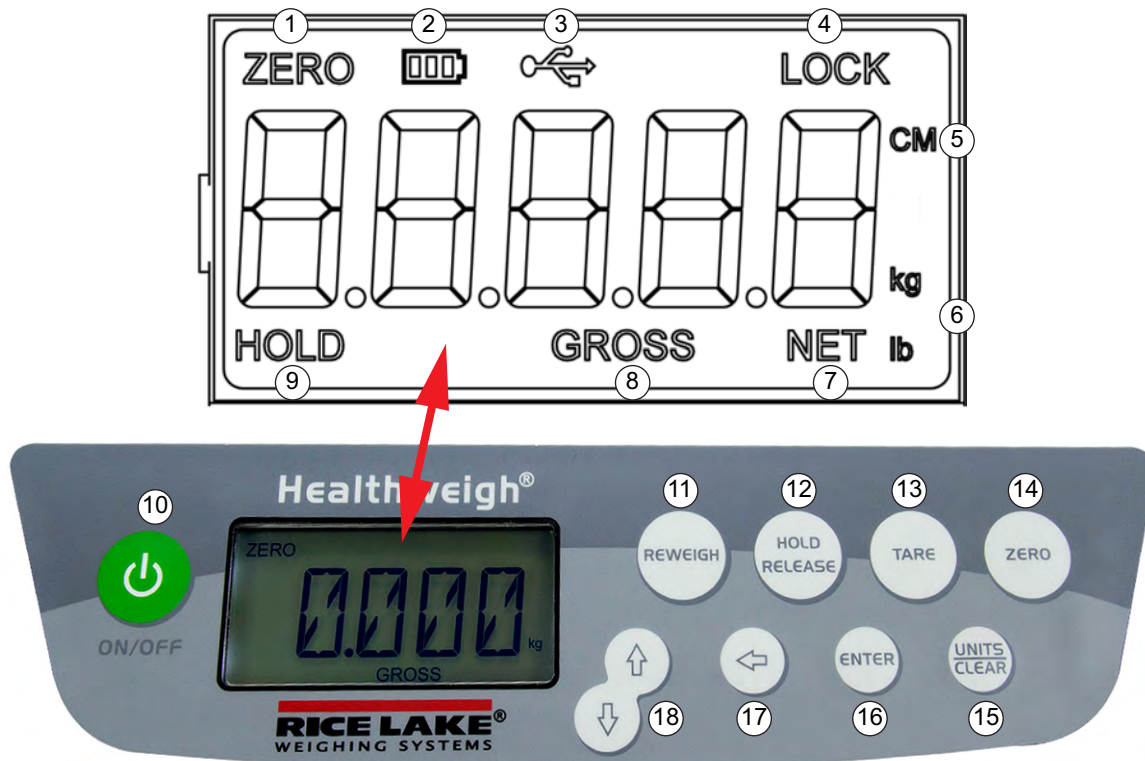


Figure 1-2. RL-650 Display


Item No.	Description	Function
1	Zero	Zeros display; enables tare of weight for weighing accessories.
2	Battery Icon	Indicates scale is running on battery power
3	USB	Indicates USB port is available
4	Lock	Indicates scale weight is locked and will remain on display
5	Unit length	Displays baby's length; inches or centimeters
6	Unit weight	Displays baby's weight; pounds or kilograms
7	Net	Indicates net weight of infant after blankets/accessories have been tared off
8	Gross	Indicates gross weight of infant including blankets/accessories
9	Hold	Displayed weight remains on display after removing infant from scale
10	On/Off	Turns scale on/off
11	Reweigh	Allows repeated reweighing of an infant; a long key press activates the print function
12	Hold/Release	First press holds current weight on display; a second press releases it
13	Tare	Removes weight of items used to place baby on scale; scale zeros and NET displays
14	Zero	Returns scale to zero, only works if the weight is stable
15	Units/Clear	Toggles between lb and kg on display; Clear function is used in setup mode only
16	Enter	Used in setup mode only
17	Shift Left	Press to shift the flashing digit to the left when entering a preset tare.
18	Up/Down Arrows	Adjusts the value of the flashing digit/number during menu setup; also used for adjusting a preset tare value.

Table 1-1. RL-650 Display




1.5 Operation

1.5.1 Before Using the Scale

Use the following steps for initial setup.

1. Press  to turn on scale. After self test, **0** displays.
2. Place weight (maximum 33 lb/15 kg) on the scale. ===== flashes on the displays until weight calculation is complete.

The weight calculation is complete once the motion indicator turns on.

3. Press  to select the weight mode, lb or kg.
4. Press . Remove the weight, the weight continues to display.
5. Press  to remove hold. **0** displays.






Note

If the setup procedure failed, see [Section 6.1 on page 15](#). If the problem is not resolved, contact a qualified service provider.

1.5.2 Weighing

Use the following steps to weigh on the scale.

1. Press  to turn the scale on. After self test, **0** displays.
2. Place a pad or other accessory to be used on the weighing tray.
3. Press  to remove the weight of a pad or other accessory, **0** displays.
4. Place the infant on the scale. Infants weight displays.
5. Press  to weigh the infant again, for more accurate results.
6. Remove the infant from the scale. **0** displays.






Note

If the scale is not used for two minutes, it turns off.


1.5.3 Hold and Release Function

Use the following steps to use the **HOLD/RELEASE** function.

1. Press  to turn the scale on. After self test, **0** displays.
2. Place the infant on the scale. Infants weight displays.
3. Press .
4. Remove infant from the scale, the weight remains on the scale and **HOLD** displays.
5. Press  to return to zero.






Note

 *can be pressed with infant still on the scale. Once infant is removed, 0 displays.*






1.5.4 Manual Tare

Use the following steps to manually tare the scale.

1. Press  to turn the scale on. After self test, **0** displays.
2. Place the item to tare (blanket, accessories) on the scale.
3. Press  until scale zeros and **NET** displays. If item is removed from the scale a negative weight displays.
4. Place the infant, with item tared, on the scale. The infant's weight and **NET** displays.
5. Remove the infant and item tared. The tared weight is stored in memory.
6. To cancel the tare weight, press  until display returns to **0** and **GROSS** displays. The tare weight cancels when the scale is turned off.

1.6 Preset Tare

Use the following steps to set the preset tare.

1. Press  to turn the scale on. After self test, **0** displays.
2. Press . The default tare value is displayed (default is programmed to be 33.0 lb/15.0 kg) while the zero is flashing.
3. Press  and  to adjust the value.
4. Press  to start the tare function. **NET** displays.

2.0 Assembly

2.1 Unpacking

Open in an area that has room for unpacking the scale. The RL-650 comes with the following pieces:

- Weighing tray
- Base assembly
- USB and RS-232 cable.
- Six AA Lithium Ion batteries

Remove parts from the carton and unwrap the packing material carefully to prevent scratching the parts.

If the RL-650 must be returned or shipped to a different location, it must be properly packed with sufficient packing materials. If possible, retain the original carton for shipping or moving the scale.

IMPORTANT *Damage caused by improper packaging is not covered by the warranty.*

2.2 Powering the Scale

The scale operates on batteries (included) or an AC adapter, available from Rice Lake Weighing Systems.

The scale will automatically switch to battery operation when an AC power source is not available.

2.2.1 Install Batteries

1. Set the scale on a sturdy, flat surface.
2. Tip the unit on its side to access the battery chamber.

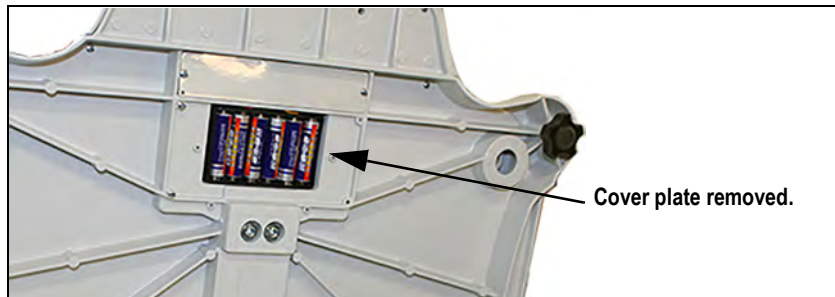


Figure 2-1. Battery Chamber Location

IMPORTANT *Do not tip the scale completely up side down, this could damage the load cells.*

3. Remove four screws from the cover plate. Cover plate will come off at the same time. Retain for re-installation.
4. Insert six batteries into the battery chamber according to the diagram inside.
5. Replace the cover plate and secure with screws.
6. Set the scale up right on a flat surface.

2.2.2 Battery Status

Battery status	Flag indicator
Maximum charge	
Medium 2 charge	
Medium 1 charge	
Low charge	
Minimum charge	Flashing
Auto shut off imminent	Scrolls LOW bat



*If when using AC adapter or USB power, the battery icon is off.
When using battery or USB power supply, the back-light power is reduced to 60%.*

Table 2-1. Battery Indicator Status

2.2.3 AC Power Supply – Optional

An optional 120 VAC or 230 VAC adapter is available from Rice Lake Weighing Systems. To operate the unit using the AC adapter, plug the cable into the back of the scale and the AC adapter plug into a power source.

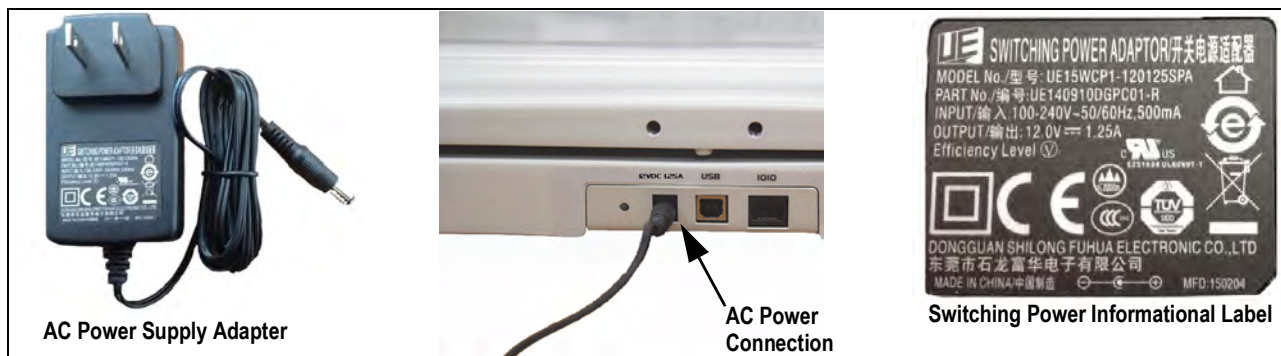


Figure 2-2. AC Power Connection

IMPORTANT Utilizing an adapter not supplied by Rice Lake voids all warranties.

2.2.4 Scale Setup

1. Ensure the scale is placed on a sturdy, flat surface.
2. Remove the transport support tabs from each corner of the scale base.

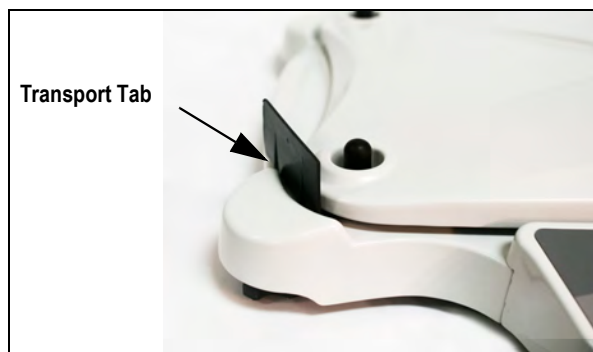


Figure 2-3. Support Tab Corners

3. The scale is equipped with four level adjusting feet. Rotate the adjustable feet located under the scale base to level the scale.
4. Place weighing tray on the base assembly ensuring it is securely resting on the four corner posts.

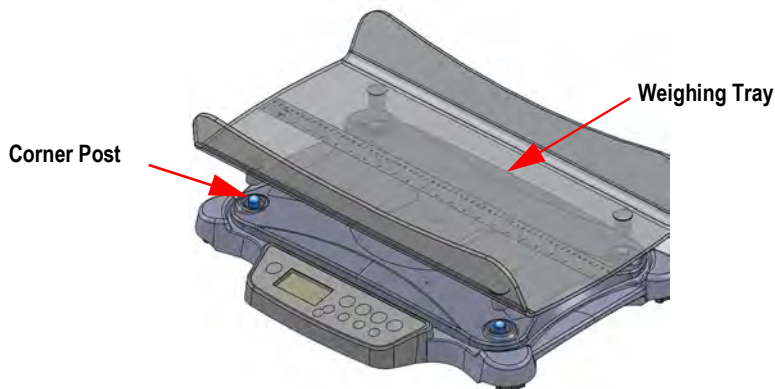


Figure 2-4. Attach Weighing Tray

3.0 Scale Configuration

Use the scale configuration to set up the scales parameters and options, that are essential for the functioning of the scale.

Access to the setup switch is located on the underside of the unit. Use a non-conductive object and gently press the internal setup switch.








Figure 3-1. Setup Switch Location

3.1 Menu Parameters

The measuring unit of the menu will be according to the measuring unit of the last calibration.

3.1.1 User Menu

1. Press  to turn the scale on, when **START** displays press and hold  until **ID** and firmware ID number flashes on the display.
2. Press . **TEST** displays.
3. Press  to enter menu or  to scroll to next parameter.



Parameter	Settings	Description
TEST		Test menu
	RID xxxxx	Internal ID number
	VER xx.xx	Development internal sub version
	A2D	Raw weight data
	VALUE	Processed weight in live display
	BAT	Raw bat value[BAT/16]
USER		Access some of the parameters from the PROG menu.
	BAUD	(96) - UART baud rate. Values: 48, 96, 144, 192, 288, 384, 576, 1152
	TOFF	(5) - Auto off timer in minutes (0 = Always on) - maximum 9 When using external power supply this parameter is irrelevant
	LIVE	(OFF) OP0 – Live weighing (0=Disable, 1=Enable, Default is Disable).
	MAIN	Communication protocol (0=ESC, 1=Maintenance, Default is ESC). Default – OFF
	OP1	SPACE (7) Number of new lines after print (hex: 0x0d 0x0a)
	SAVE	Programming done, parameters save to EEPROM.

Table 3-1. User Menu Parameters

Parameter	Settings	Description
GRAV		Gravity settings
	G-CAL	gravity at calibration location, read only
	G-LOC	gravity at user location GUPDAT: <ul style="list-style-type: none"> • if ON, value can be updated; • if OFF, value is read only • after value is changed the first time, it is set to OFF.
RTC		??? (settings only displayed when option is on)
	Time	HH.MM set minutes, press enter , set hour
	Date	DD.MM set month, press enter , set day
	Year	YY set last two digits of year (example: 2017 enter 17)
DONE		Reboots scale

Table 3-1. User Menu Parameters (Continued)




3.1.2 Verification Menu

1. From ID display, press  to scroll to the verification menu.
2. Press  to enter the menu.

Parameter	Description and Settings
MONT	Set the next verification date in month. Default – 11 If set to zero no verification message (CNTL) will be displayed. On entering this menu will always show 11 month. The CNTL message is displayed on startup for 10 seconds
SAVE	Saving will indicate verification was done and the next verification date was saved.
DONE	Reboots scale after 3 seconds.

Table 3-2. Verification Menu Parameters

3.1.3 Maintenance Menu

1. From ID display, press the OnBoard key to scroll to the maintenance menu. The OnBoard key is position on the under the keypad and has a seal on the opening
2. Press  to change sub-menu and  to choose the required menu.
3. Press  to enter the menu.

Parameter	Description and Settings
PROG	Programming menu, see
CALIB	Calibration process
DEF	Load default menu, select No or Yes
DONE	Reboots scale

Table 3-3. Maintenance Menu Parameters

3.1.4 Programming Menu

Parameter	Default	Description and Settings
FULL	20 kg\40 lb	Full capacity*
LOAD	10 kg\20 lb	Calibration Load – can be changed from the calibration menu; max full capacity*
ASTART	0.030 kg\0.060 lb	Weight Process Start Limit – determines when weight algorithm starts (===== displays), below this value the scale displays live weight; max (full capacity)/10* Also used to determine manual or function tare on the 38 model.
ARW	0.050 kg\0.100 lb	Auto-Reweigh – restarts weigh algorithm if weight changes by more than set value; max full capacity*
SAL	0.005 Sec	Semi-Auto-Live – interval between weight displays during algorithm process; max 0.9 sec
ROUND	0.005 kg\0.010 lb	Scale resolution – Displays the high round if in dual range <ul style="list-style-type: none"> values in kg: 1, 1, 2, 5, 10, 20, 50, 100 values in lb: 1, 2, 5, 10, 20, 50, 100, 200 The decimal point location is set according to DISP parameter
BAUD	96	UART baud rate – settings: 48, 96, 144, 192, 288, 384, 576, 1152 Value entered is multiplied by 100 <i>example: 96 x 100 = 9600</i>
ATOL	2 0-255	Algorithm Initial Tolerance – if value is above 255, doesn't proceed and returns to previous value
ALEN	8 0-10	Algorithm Initial Exponent – if value is above 10, it returns to previous value
ATOUT	11 0-15	Algorithm Maximal Exponent – if value is above 15, it returns to previous value.
TOFF	5	Auto Off Timer 0-9 minutes (0 = always on) only applies when battery powered
TLOC	3	Auto Release Lock Timer – in seconds (0 = NO RELEASE, can have values from 0 to 9) Every x seconds the lock is released and the weighing algorithm restarts.
LANG	1	Print Language – 0 = English, 1 = French
SPACE	7	Number of new lines after print (hex: 0x0d 0x0a)
UNITS	kg\lb	Units of Measure displayed (kg, lb or kg\lb)
OP	--	Binary options: <ul style="list-style-type: none"> OP0 – Live weighing (0=Disable, 1=Enable, Default is Disable). OP1 – Communication protocol (0=ESC, 1=Maintenance, Default is ESC). OP2 – Reserved OP3 – RTC power (0=Disable, 1= Enable, Default is Enable). OP4 – SEMI-AUTO-LIVE (0=Disable, 1= Enable, Default is Enable). OP5 –full calculation (0= Spatial, 1=multiply by 2, Default is multiply by 2). OP6 – TARE (0=Disable, 1=Enable, Default is Enable). OP7 – BAT type (0=Dry batteries, 1= rechargeable batteries, Default is rechargeable). OP8 – OIML Mode (0=Disable, 1=Enable, Default is Enable). OP9 – USB boost (0= Disable, 1= Enable, Enable). OP10 – OZ display (0= Disable, 1= Enable, Disable). OP11 – Gravity Update - GUPDAT (0= Disable, 1= Enable, Disable). OP12 – Enable Print function - (0= Disable, 1= Enable, Disable).
SAVE	--	Press to save parameters to EEPROM (only displays if changes have been made)
DONE	--	Scale reboots

Table 3-4. Programming Menu Parameters

* The lb menu values will be multiplied by 2. (example: full 250.0 kg = 500.0 lb)

* The decimal point location is fixed in this program to 0.000

4.0 Calibration

Use the following steps to enter into the calibration mode and calibrate the unit.







1. Press and hold  and then press  until **ID** is displayed.
2. Using a non-conductive instrument, press the setup switch located under the unit. **PROG** displays.









Figure 4-1. Setup Switch Location

3. Press the left arrow until **CALIB** is displayed.
4. Press .
5. Use  or  to select 20 lb or 10 kg.



Note If using a different weight value other than those listed in Step 5, press  again and the far right digit flashes. Press the up or down arrows to change the weight value. The left arrow moves to the next digit on the left, allowing changes to the value.

6. Press  to save that weight value. **CLEAR** displays.
7. Make sure the platter is empty and press . ===== displays.
8. **PUT** is displayed. Put the entered value (ie: 20 lb) onto the platter. ===== displays.
9. Press . The scale calibrates that weight. Once calibrated, **SAVE** is displayed.
10. Press . The scale displays **DONE**.
11. Press  so goes back to **DONE**, then press . The scale reboots and returns to weigh mode.

5.0 RS-232 Communication

The scale comes with an RS-232 port which enables weight data to be transmitted to other equipment, such as a computer or printer. The RS-232 cable with DB-9 connector (PN 100719) is available from Rice Lake Weighing System. [Figure 5-1](#) shows where the RS-232 connection is.

The RS-232 parameters are 9600 baud (selectable in the programming mode), 8 data bits, 1 stop bit, no parity and no handshaking.

The method to access weight data from the computer is:

- Pushbutton keypad print - Done by pressing and holding the **REWEIGH** key.

5.1 Pushbutton Keypad Print

With a stable, in-range weight, press and hold the **REWEIGH** key for at least three seconds. Note that if the scale does not beep after five seconds, then release the button as the weight was either in motion, or out of range. The print will show on the display when it is transmitting data.

If displaying weight, the scale will send out the following 21 character string:

```
xxxxxxxx<SP>uu<SP>mmmmm<SP><CR><LF>
```

Where:

xxxxxxxx is the weight with decimal point and (-) neg sign, if negative uu is the unit (lb or kg).

mmmmm is the mode (gross or net)

Examples:

```
-10 Lb net = <SP><SP><SP><SP>-10.0<SP>lb<SP><SP>Net<SP><SP><SP><CR><LF>
```

```
10 Lb gross = <SP><SP><SP><SP><SP>-10.0<SP>lb<SP>Gross<SP><CR><LF>
```

5.2 USB Connection

The RL-650 has the capability of connecting to a PC using a USB connection and a USB cable. That connection location is shown in [Figure 5-1](#).

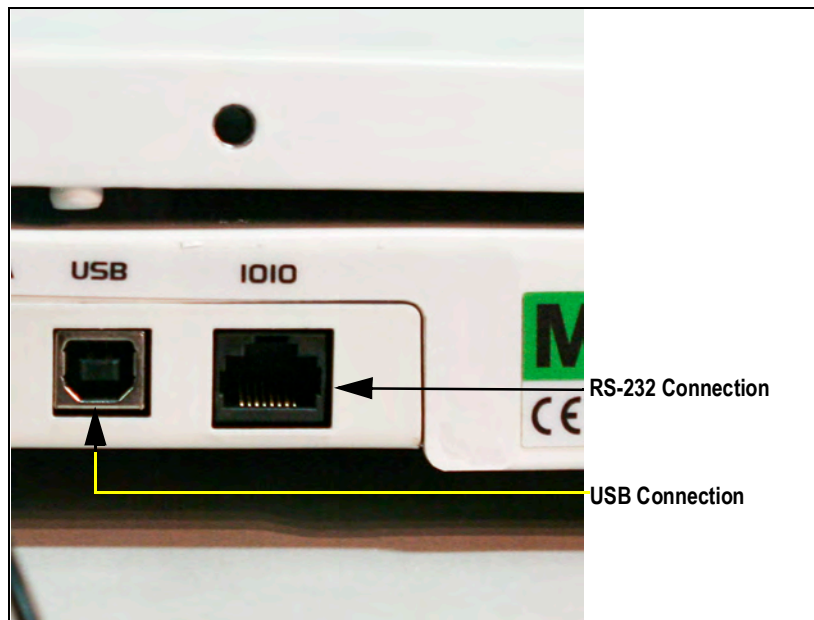


Figure 5-1. USB Connection Port and RS-232 Connection Port

Connecting software and downloads should be addressed by an IT professional, and can vary depending on the computer platform used. Basic information on USB driver installation using Windows[®] is described in the following steps and serves only as an example.

1. Search for **Titanium USB Driver**.

Rice Lake Weighing Systems > Resources > Software / Firmware

Software / Firmware

Software / Firmware landing page

Search all columns:

Title	Version	Size	Download	Email
Titanium USB Driver	1	967 B	Download	Email

Showing 1 to 1 of 1 entries (filtered from 211 total entries) Previous Next

Show entries

Figure 5-2. Software/Firmware Page

2. Click on **Download** to open and download the driver to a local computer.
3. When the USB cable is connected to the indicator and the scale is turned on, a display prompts to navigate through the software install process.



Figure 5-3. Hardware Wizard Menu

4. Select **No, not this time**, and then click **Next**.
5. Select **Install the software automatically**, then select **Next**. A file transfer screen displays as the file downloads and installs to the computer.
6. Click on **Finish** when the completion screen displays.

- To verify the installation, view the driver by looking at the device manager of the system.

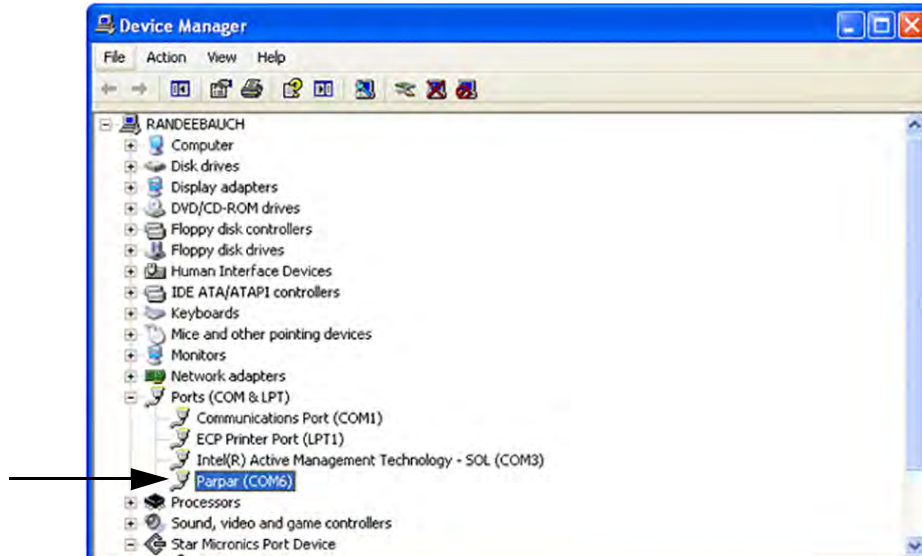


Figure 5-4. Device Manager

- To configure a printer using the USB driver, open the software driver **Parpar** in the device manager (Figure 5-4). The port assigned to that driver is displayed.
- Ensure the USB cable is properly connected and the unit is on.
- Open and connect a terminal emulation program, such as Hyperterminal, via the USB driver. Select the port assigned to the software driver **Parpar** to establish a port. The terminal emulation program is necessary to view information transmitted from the indicator to the PC.
- Press . The following example tickets print.

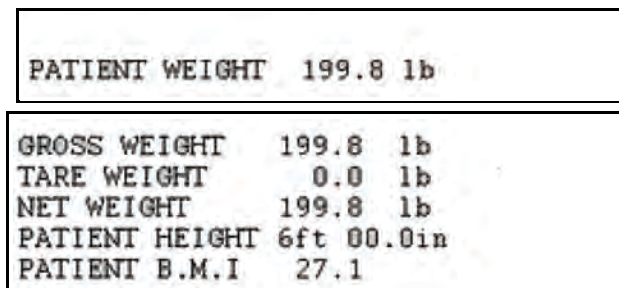


Figure 5-5. Example Tickets



A single print ticket has four spaces after the “patient weight” and only one space between weight and lb in the examples shown above. Then seven <CR><LF> after.

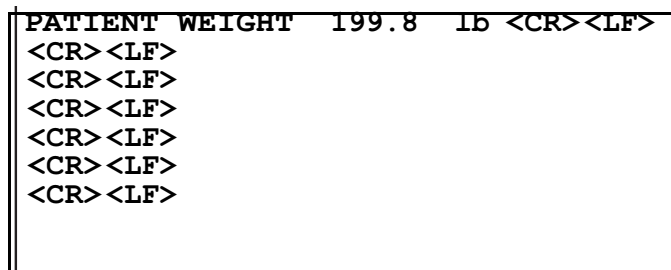


Figure 5-6. IT Example Ticket

IMPORTANT Figure 5-6 is for IT information only. The tickets print as in Figure 5-5.

6.0 Troubleshooting and Maintenance

6.1 Troubleshooting & Testing

Refer to the following instructions to check and correct any failure before consulting service personnel.

Symptom	Possible Cause	Corrective Action
Scale does not turn on when using just batteries	Dead batteries	Connect the scale to a power source or change batteries
Scale does not turn on	Dead battery	Connect the scale to a power source
	Faulty electrical outlet	Use a different electrical outlet
	Bad power supply	Replace optional adapter
Questionable weight or the scale does not zero	External object is interfering with the scale	Remove the infant/interfering object from the weighing tray from the scale
	Display did not show 0.0 before weighing	Remove the infant, zero the scale and begin the weighing process again
	Scale is not placed on a level surface	Place the scale on a stable surface and begin the weighing process again
	The weighing tray is not placed properly	Place the weighing tray in its proper place
	Scale is out of calibration	Check the scale with a known weight value
The display shows o_Ld message	The load on the scale exceeds the capacity	Remove the excess weight and use the scale according to its stated limit
The display show Err	The RECALL key was pressed with insufficient weight on the scale.	Place more than 2 lb, 30 Oz on the scale

Table 6-1. Troubleshooting Table

6.2 Maintenance

The following section provides instructions for maintaining and cleaning the RL-650 Series neonatal scale. Maintenance operations other than those described in this section should be performed by qualified service personnel.

6.2.1 Basic Maintenance

Before the first use of the scale and after periods of non-use, check the scale for proper operation and function. If the scale does not operate correctly, contact qualified service personnel.

Go through the following steps for basic maintenance:

1. Check the overall appearance of the entire scale for any obvious signs of damage, abuse, etc.
2. Inspect the condition of the optional AC adapter for cord cracking or fraying, or for broken or bent prongs.

6.2.2 Cleaning

Proper care and cleaning is essential to ensure a long life of accurate and effective operation.



WARNING

Before beginning the cleaning process, disconnect the scale from the AC power source.

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



IMPORTANT

Do not immerse the scale into cleaning or other liquid solutions.

Do not use Isopropyl alcohol or other solutions to clean the display surface.

7.0 Specifications

Capacity

33 Lb x 0.5 oz (15 x 0.01 Kg)

Power Requirements

2 VDC provided by six AA Lithium-Ion batteries (included) or AC adapter (optional)
Optional adapter is UL and C-UL approved

Battery Type

AA Lithium-Ion disposable

Nominal Voltage: 1.5 V

Rated capacity: 2900 mAh

Working voltage: 1.30V @ 200 mA discharge

Environmental

Operating temperature: 50 to +95°F (10 to +35°C)

Tray Dimensions

23.5" (L) x 11" (W) (60 x 28 cm)

Weight

25 Lb (11.3 Kg)

Warranty

Two-year Limited Warranty

Approvals



E113986

8.0 RL-650 Series 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 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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