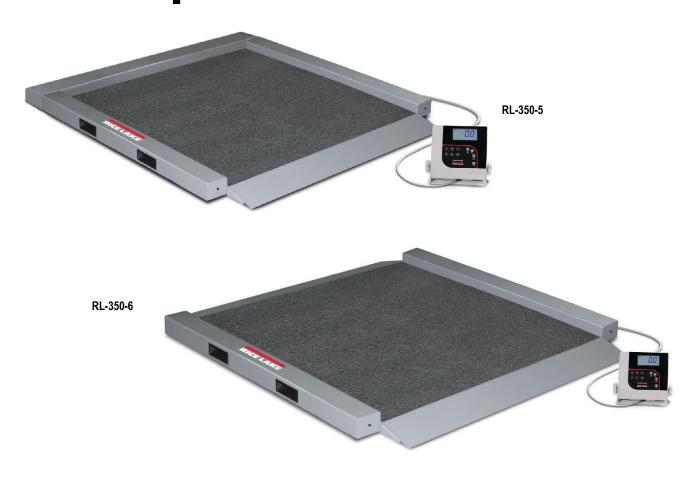
RL-350 Series

Portable Bariatric Wheelchair Scales Software Version 11525

Operation Manual





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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		Description
D	August 18, 2022	Established a revision history; formatted content to match other medical manuals; software version 11525
Е	August 6, 2025	Updated Specifications

Table i. Revision Letter History



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.

Contents

1.0	Intro	Introduction				
	1.1 1.2	FCC Compliance	6			
	1.3	Disposal	7			
2.0	Asse	embly	3			
	2.1	Unpacking				
	2.2	Scale Setup	3			
	2.3	Cable Connections				
	2.4	Load Cell Connections	6			
		2.4.1 Insert Batteries				
		2.4.2 Power Connection	7			
3.0	Ope	ration	8			
	3.1	Key Descriptions	8			
	3.2	Weighing				
	3.3	Hold/Release Function	9			
	3.4	Preset Tare	9			
	3.5	Toggle Tare	9			
	3.6	Using the Body Mass Index (BMI) Function				
		3.6.1 LB Mode	10			
		3.6.2 KG Mode	10			
	3.7	Troubleshooting	11			
4.0	Communications					
	4.1	Push-button Keypad Print	12			
	4.2	USB Connection				
5.0	Main	ntenance	4			
	5.1	Basic Maintenance	14			
	5.2	Cleaning				
	5.3	Transporting and Storing the Scale.				
6.0			۵۱			



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

1.0 Introduction

The RL-350 Series wheelchair scales are heavy-duty scales that easily accommodate wheelchairs with its large platform size and easy-access ramp in either a single ramp (RL-350-5) or dual ramp (RL-350-6). It provides exceptional performance in applications where typical wheelchair scales are not large enough to meet the needs of the patient.

The RL-350 Series wheelchair scale is a fully electronic, low profile floor scale that measures 34 in x 34 in (.86 m x .86 m) and has the capacity up to 1000 lb (450 kg). The RL-350 Series wheelchair scale uses four corner-mounted, alloy steel shear beam load cells, with the cells recessed into the frame channels for protection. The RL-350 Series wheelchair scale offers two integrated handles and wheels for ease of portability.

Load cell cables are run through the main channels and held down with replaceable cable ties near each corner, eliminating the possibility of cable damage in portable applications.

The adjustable feet are used to allow leveling the scale to make up for minor floor irregularities. Two of the four feet sit inside the foot keeper plates located on the front of the ramp.

The RL-350 Series wheelchair scale comes equipped with an anti-slip rubber surface on the scale platform and a large one inch LCD indicator display. The indicator comes with six, AA batteries and has an optional AC adapter available.

The scale is set up to use motion sensing technology, to determine actual weight of a moving patient. The weight can be displayed in either pounds or kilograms and a tare weight can be entered. Section 3.0 on page 8 of this manual explains the scale operation and how to obtain a tare weight.



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

Warranty information is available at www.ricelake.com/warranties

1.1 FCC Compliance

United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class A prescites dans le Règlement sur le brouillage radioélectrique edicté par le ministère des Communications du Canada.



1.2 Safety

Safety 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 who operates or works with this unit has read and understands all safety information.

Do not transport the scale while someone is on the scale.

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 use near water.

Do not use the scale on slippery surfaces, such as a wet floor.

Do not use this scale when a person's body or feet are wet, such as after taking a bath.

Do not place fingers into slots or possible pinch points.

To avoid cross contamination, the scale should be cleaned regularly.

Prior to cleaning, make sure the scale is disconnected from the power source.

People with disabilities, or who are physically frail, should always be assisted by another person when using this scale.



IMPORTANT

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

Do not jump on the scale.

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

Operating at voltages and frequencies other than specified could damage the equipment.

Avoid contact with excessive moisture.

Do not make alterations or modifications to the scale.

Rice Lake Weighing Systems offers optional AC adapters; utilizing an adapter not supplied by Rice Lake Weighing Systems voids all warranties and approvals.

Weight exceeding the maximum capacity may damage the scale.



1.3 Disposal



Product Disposal

The product must be brought to appropriate separate waste collection centers at the end of its life cycle.

Proper separate collection to recycle the product helps prevent possible negative effects on the environment and to health, and promotes the recycling of the materials. Users who dispose of the product illegally shall face administrative sanctions as provided by law.

Battery Disposal

Dispose of batteries at appropriate waste collection centers at the end of their life cycle in accordance with local laws and regulations. Batteries and rechargeable batteries may contain harmful substances that should not be disposed of in household waste. Batteries may contain harmful substances including but not limited to: cadmium (Cd), lithium (Li), mercury (Hg) or lead (Pb). Users who dispose of batteries illegally shall face administrative sanctions as provided by law.



WARNING: Risk of fire and explosion. Do not burn, crush, disassemble or short-circuit batteries. Do not replace battery with incorrect type.



2.0 Assembly

The following section provides assembly instructions for the RL-350 Series wheelchair scale.

2.1 Unpacking

The RL-350 Series wheelchair scale comes shipped in a wooden two piece box. Place the unopened box in an open area that has ample room for unpacking the scale.

Using scissors or a box cutter, cut the strapping bands that secure the box together. Lift off the top cover. Immediately after opening the box, visually inspect the scale to ensure all parts are included and undamaged. If parts were damaged in shipment, notify Rice Lake Weighing Systems and the shipper immediately.

Parts contained in the shipping box include:

- · The scale
- · This manual
- · Parts box which contains the indicator display

2.1.1 Repacking

Retain the packaging for use in the event that the scale must be returned or moved. The product must be properly packed with sufficient packing materials. Whenever possible, use the original carton and packing materials when shipping the scale back.



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

2.2 Scale Setup

Use the following steps to set up the RL-350 Series wheelchair scale.

- 1. Locate the manual and set it aside as it will provide instructions on the proper scale setup.
- 2. Using two people, remove the scale off the shipping platform that it came in as shown in Figure 2-1.



Figure 2-1. Unbox the Scale

3. Move the scale into the area where the weighing process will occur. It's recommended to place the scale on a hard, level surface for the most accurate weighments. Thin carpeting is often acceptable, but not recommended.



4. Stand the scale on its side so that the plastic packaging material can be removed.



Figure 2-2. Remove Plastic Wrapping off of Scale

2.2.1 Scale Feet Adjustment

The scale feet are shipped attached to the scale. Adjustments need to be made in order for the scale to sit properly on the floor.

1. There must be adequate clearance between the scale base and the floor, so screw each foot out counter clockwise, two full turns. This will ensure that there is enough clearance between the scale base and the floor.



Figure 2-3. Backing out the Scale Feet

2. Carefully unwrap the load cell cable located on the underside of the scale. It will run out the underside of the scale.



Figure 2-4. Unwrap the Cable from the Underside of the Scale



3. Gently set the scale base down to the floor. There should be minimal clearance between the scale base and the floor without having the scale base actually touching the floor.



NOTE: Not having clearance around the scale base will create inaccurate weighments.

4. It's also important to make sure that the scale is completely level. Gently press down on all four corners of the scale base to ensure that there are no high spots or rocking of the scale base.



NOTE: An un-level scale base will produce inaccurate weight readings.

2.3 Cable Connections

Ten feet of 4-wire cable to connect the scale to the weight indicator is supplied with each scale.



NOTE: The cable is pre-installed from the factory.

The cable must be routed to the indicator in a manner that will protect the cable from damage.

When planning cable routing, leave a loose coil of excess cable under the scale to facilitate future lifting of the scale for servicing or cleaning.



NOTE: Cabling should exit the underside of the scale on the portable wheel side of the scale and not the ramp side(s).

When the interface cable is protected and in its final position, complete the connections to the indicator. When planning cable routing, leave a loose coil of excess cable under the scale to facilitate future lifting of the scale for servicing or cleaning.



Figure 2-5. Indicator Cable Exiting the Side of the Scale Platform



2.4 Load Cell Connections

The indicator and scale comes factory installed with a load cell cable connection. Follow the procedure below if the load cell cable needs to be replaced or reconnected to the indicator.

1. Unscrew and remove the tilt stand bracket from the indicator to gain access to the load cell connection.

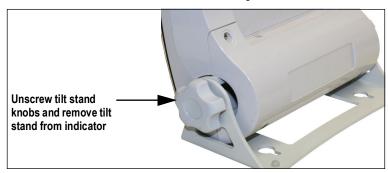


Figure 2-6. Remove Tilt Stand

2. Remove the four back retaining screws to remove the back cover to the indicator.

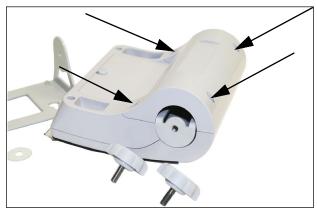


Figure 2-7. Remove Back Cover

3. Plug the end of the load cell cable into the load cell connection. When it clicks the load cell cable is properly seated into the connection.

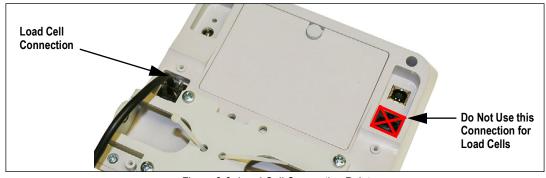


Figure 2-8. Load Cell Connection Point

4. Reinstall the back cover and attach to the tilt stand.

2.4.1 Insert Batteries

The six AA batteries supplied with the scale provide an average of 25 hours of continuous use.

To install the batteries:

- 1. Turn thumbscrew counterclockwise then remove battery cover.
- 2. Insert batteries into the battery chamber as illustrated.



Figure 2-9. Battery Chamber

3. Put the cover in place and turn the thumbscrew clockwise to secure.



NOTE: Remove the batteries prior to storing if the product is not going to be used for an extended period of time.



NOTE: If the LO BAT indicator activates, for accurate weighing, replace the batteries or connect the scale to an AC power source as soon as possible.

2.4.2 Power Connection

An optional AC power adapter can be used when a power outlet is available.



IMPORTANT: Only use power adapters supplied by or purchased from Rice Lake Weighing Systems. The use of a power adapter not from Rice Lake Weighing Systems voids the warranty.



Figure 2-10. Power Connection Site



 ${\it NOTE:}\ The\ battery\ annunciator\ on\ the\ display\ turns\ off\ when\ using\ an\ AC\ power\ connection.$

The brightness of the backlight is reduced to 60% when using battery power.



3.0 Operation

This section describes the front panel and includes procedures for operation of the scale.



Figure 3-1. Front Panel Keypad

3.1 Key Descriptions

The display has 10 front panel keys. Key functions are described in the table below.

IMPORTANT: The front panel keys are very sensitive, so only a gentle press is required.

Key	Name	Function	
On/Off	On/Off	Powers the scale on or off	
Print LB/KG	Print LB/KG	Sends data out from the RS-232 port; Allows to toggle between kilograms and pounds providing that it is enabled in <i>Configuration</i> mode; Cannot toggle while in the <i>BMI</i> mode	
→0÷ Zero	Zero	Only functions if the current weight is stable and less than 2% of the capacity of the scale. Anything over 2% requires a recalibration	
Hold Release Displays most current weight value on the display and holds that value when the patient is off the press releases the weight value. Not active while in <i>BMI</i> mode		Displays most current weight value on the display and holds that value when the patient is off the scale. A second press releases the weight value. Not active while in BMI mode	
BMI	ВМІ	Pressing the BMI key enables access to the BMI (Body Mass Index) mode (defaults when scale is turned on). The patient is gets on the scale, weight stabilizes and press the BMI key. The display then asks for the patient height to calculate out the patient BMI.	
TARE (4)	TARE Used to remove the weight initially of anything on the scale that shouldn't be included in the total patient on the scale		
CLEAR	CLEAR	When using the BMI function, the display looks for a height entry. Pressing Clear changes this entry back to 190.0 cm (default) or 5 ft, 7.5 in.Once BMI is displayed, pressing the Clear key exits BMI	
ENTER 4-1	ENTER	Used to accept height in BMI mode; accepts the value of the parameter last entered and moves to the next stage Pressing and holding Enter during startup will display ID. This is the first setup on entering into configuration mode	
	Up Arrows	Adjusts the value of the flashing digit/number Adjusts height input (0.5 in/0.5 cm) while in BMI mode	
	Down Arrows	Adjusts the value of the flashing digit/number Adjusts height input (0.5 in/0.5 cm) while in BMI mode	

Table 3-1. Key Functions



3.2 Weighing

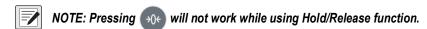
Use the following steps to weigh.

- 1. Press (b) to turn on the scale. **0.0** appears on the display along with the **ZERO** annunciator.
- Place the patient on the scale. The patient's weight is displayed, the LOCK annunciator is on and the indicator beeps to indicate the end of the weighing process.
- 3. Press on to change the display from lb to kg and vice-versa.
- Press and hold until OFF displays to turn off the scale.

3.3 Hold/Release Function

Use the following steps to use the Hold/Release function.

- 1. Press to turn on the scale. **0.0** prompts along with **ZERO** on the display.
- 2. Press once the patient's weight stabilizes. The patient's weight and the *HOLD* and *LOCK* annunciators remain on the display when the patient is off the scale.
- 3. Press again to return the scale to zero.



NOTE: Pressing prior to the patient getting on the scale will also hold the weight display.

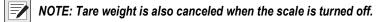
3.4 Preset Tare

Use the following steps for the Preset Tare function prior to patient weighing if additional items are being used by the patient.

- 1. Press to turn on the scale. **0.0** appears on the display along with the **ZERO** annunciator.
- 2. Place additional item(s) on the scale.
- 3. Press until the display returns to **0.0** and **NET** annunciator appears on the display.
- 4. Remove additional item(s) from the scale. The weight displays with a negative symbol to the left of it.



- Position the patient and additional item(s) on the scale. The display identifies the patient weight. The NET annunciator
 is still active. The weight of the additional item(s) remains stored in memory for the duration of this weigh in.
- 6. To cancel the tare weight, remove patient from the scale and press until **NET** disappears from the display and the display turns back to **0.0** and **GROSS** appears.



3.5 Toggle Tare

Use the following steps to use the Toggle Tare function when the additional item to be weighed is known.

- 1. Press when the scale is empty and **0.0** displays. The default values prompts while **0.0** is flashing on the display (default is programmed to be 33.0 lb/15.0 kg).
- 2. Use and to adjust the value. Press to start the tare function. The **NET** annunciator turns on instead of the **GROSS** annunciator.



3.6 Using the Body Mass Index (BMI) Function

Use the following steps in determining the BMI.

3.6.1 LB Mode

- 1. Ensure that the scale is at zero.
- 2. Place the patient on the scale to obtain a weight. The **LOCK** annunciator appears on the display.
- 3. Press BMI and FT/IN annunciators appear on the display and a default height value of 5 feet 7.5 inch (5 07.5) is flashing.
- 4. Use and to adjust the height value.
- 5. Press ENTER.
- 6. The BMI value and **BMI** annunciator are shown on the display. Press to return to the **Weighing** mode and the BMI function will be turned off.

3.6.2 KG Mode

- 1. Ensure that the scale is at zero.
- 2. Place the patient on the scale to obtain a weight. The **LOCK** annunciator appears on the display.
- 3. Press [BM] . The **BMI** and **CM** annunciators appear on the display and a default height value of 170.0 cm (170.0) is flashing.
- 4. Use and to adjust the height value.
- 5. Press ENTER.
- 6. The BMI value and **BMI** annunciator are shown on the display. Press to return to the **Weighing** mode and the BMI function will be turned off.



3.7 Troubleshooting

Refer to the following table to check and correct any failure before contacting service personnel.

Symptom	Possible Cause	Corrective Action	
Scale does not turn on	Dead batteries	Replace batteries or connect to AC power	
	Faulty electrical outlet	Use a different electrical outlet	
	Bad power supply	Replace adapter	
Questionable weight or the scale does not	External object is interfering with the scale	Remove the interfering object from the scale	
zero	Display did not show 0.0 before weighing	Help the patient off the scale, zero the scale and begin the	
		weighing process again	
	Scale is not placed on a level floor	Ensure scale is level and begin the weighing process again	
	Scale is out of calibration	Check the weight with a certified calibration weight	
	Scale base is touching floor during a weighment	Adjust height of feet so fingers can slide between the base of scale and the floor all the way around the platform	
The display shows a STOP message	The load on the scale exceeds the capacity of the scale	Remove the excess weight and use the scale according to manufacture specifications	
The display shows LO Bat message	The battery is low	Replace batteries	
The display shows E and Err messages as d	etailed below		
E06	Identifier - ADC	AD too high	
E07		AD too low	
E10	Overload	Scale has been overloaded. Remove load from scale	
E4L	BAT	Battery low, but still usable- one bar left on indicator display	
E4U		Battery low and unstable - no bars left on indicator display	
E11	CAL	Calibration Error - recalibrate scale	
Err 1	Load cell cable may be plugged into wrong connection port	Ensure cable is connected to the load cell connection port. Note: Load cell connection point is located underneath the curved plastic cover of the indicator. Remove four back retaining screws, remove curved back cover to access load cell connection point.	
Err 2	Low saturation state (low A/D)	The load cell is not connected properly; Check the cables and mechanical connections; if the problem persists, replace the set of load cells	
Err 3	High saturation state (high A/D)	See Err 2	
Err 6	Unstable weight; Cannot calibrate	Check the load cell mechanical surroundings and ensure nothing is contacting the load cell and that the cables are properly welded	
Err 7	Scale isn't moving	Make sure feet are installed on the scale. Turn the feet all the way in and then back them out three full turns, then level the scale	
SAT	Damaged load cell cable	Replace load cell cable	
	Load cell cable may be plugged into wrong connection port	Ensure cable is connected to the load cell connection port. Note: Load cell connection point is located underneath the curved plastic cover of the indicator. Remove four back retaining screws, remove curved back cover to access load cell connection point.	

Table 3-2. Troubleshooting Table



Communications 4.0

The unit comes with an RS-232 port that 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 Systems. That connection is shown in USB Connection section on the next page.

The RS-232 parameters are:

- 9600 baud (selectable in the programming mode)
- 8 data bits
- 1 stop bit
- no parity
- · no handshaking

There are three methods of communication:

- Push-button keypad print
- · Standard remote protocol
- · Escape protocol

4.1 **Push-button Keypad Print**



With a stable, in-range weight, press and hold on for at least three seconds, or until the scale emits two quick beeps.



NOTE: If the scale does not beep after five seconds, release () as the weight was either in motion or out of range.



If displaying weight and not BMI, the scale will send out the following 21 character string:

xxxxxxxxx<SP>uu<SP>mmmmm<SP><CR><LF>

Token	Description
XXXXXXXX	Weight with decimal point and "-" sign
<sp></sp>	Space
uu	Unit - lb or kg
mmmmm	Mode - gross or net
<cr></cr>	Carriage return
<lf></lf>	Line feed (moves cursor down to the next line)

Table 4-1. Print Format Tokens

Example:

-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>10.0<SP>lb<SP>Gross<SP><CR><LF>

• The scale will send out the following data while in **BMI** mode (displaying the BMI value):

Setting	Value
Gross Weight	215 Lb
Tare Weight	0.0 Lb
Net Weight	215 Lb
Patient Height	6-01.0 ft
Patient BMI	28.4

Table 4-2. BMI Data



4.2 USB Connection

The scale has the capability of connecting to a Windows® computer (PC) using a USB cable (not included) and a terminal emulation program. A terminal emulation program allows the transfer of data between the scale and PC using a serial port.



Figure 4-1. Connection Ports



NOTE: Apple® and Macintosh® computers are unable to transfer the necessary data to the scale. Only use a PC for data transfer.

Connecting software and downloads should always be addressed by the IT department for safety reasons and can vary depending on what type of computer platform is being used.



NOTE: Consult the IT department if driver protections are preventing the use of the USB driver. Driver protections may need to be temporarily disabled on Windows 10 or later computers to allow for the installation of the USB driver.

- 1. Connect the scale's indicator to a PC using a USB-Type B to USB-Type A cable (not included).
- Turn the indicator on.



NOTE: In most cases, the PC should find the driver and automatically configure the driver when the scale is plugged into a USB port.

- 3. Open a terminal emulation program, such as Advanced Serial Port Terminal, pUtty or Hercules (used in this example).
- Connect to the serial port assigned by the PC (COM5 in example). This can be found in Device Manager. Once selected, press Open.

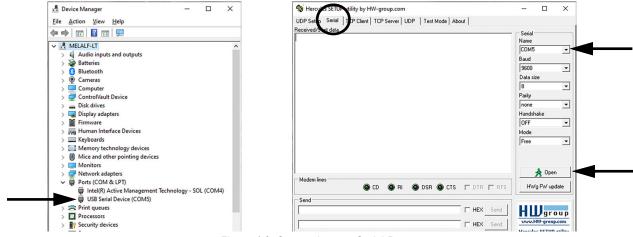


Figure 4-2. Connecting to a Serial Port

5. With weight on the scale, press and hold the **Print** button on the indicator for three seconds. The patient's weight is sent to the PC.



Figure 4-3. Patient Weight Displayed



5.0 Maintenance

The following section provides instructions for maintaining and cleaning the unit.

5.1 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 a qualified service personnel.

Go through the following steps for basic maintenance.

- · Check the overall appearance of the entire scale for any obvious signs of damage
- Inspect the condition of the AC power adapter cord for cracking, fraying or for broken or bent prongs

5.2 Cleaning

Proper care and cleaning is essential to ensure a long life of accurate and effective operation. 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
- Do not immerse the scale into cleaning or other liquid solutions
- Do not use isopropyl alcohol or other solutions to clean the display surface



5.3 Transporting and Storing the Scale

For ease of portability, the RL-350 Series wheelchair scale comes with two built-in handles and wheels. This allows the user to transport the scale from one location to another. Use the following steps to transport the scale or to store it.

1. Carefully pick up the scale by standing on the side opposite of the wheels, where the cabling comes out from the bottom of the scale platform.



Figure 5-1. Pick up the Scale Using Handles

- 2. With the scale upright, wrap the cable around brackets on the underside of the scale and hang indicator on bracket.
- 3. The scale can now be rolled to another location.



Figure 5-2. Roll Away for Transport or Storage



6.0 Specifications

Power

120 VAC-9 VDC-50 Hz / 230 VAC-9 VDC-50 Hz

Battery Type

6 AA Alkaline

Battery Use

25 hours of continuous use

Automatic power-off can be configured

Environmental

Operating Temperature 50°F to 104°F (14°C to 40°C)
Storage Temperature 32°F to 158°F (0°C to 70°C)
Humidity 85% relative humidity

Load Cell Excitation

Rated Excitation 10 VDC Maximum Excitation 15 VDC

Grade Level Requirements

The supporting surface for the four feet of the scale must be level within 1/4 inch of horizontal.

Nominal Scale Height

3.0 inch (76 mm)







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