260-10-1

Bariatric Handrail Scale Software Version 11525

Operation Manual





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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 | | |
|---------------|-----------------|--|--|--|
| Α | August 17, 2022 | Established a revision history; formatted content to match other medical manuals; software version 11525 | | |
| | | | | |

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.

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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 260-10-1 bariatric handrail scale is efficiently designed to provide accurate, reliable and repeatable weight measurements. A non-skid platform paired with side rails assists individuals needing extra support for safety reasons. The weight is displayed on the indicator in pounds or kilograms.



Manuals, resources and warranties are available from Rice Lake Weighing Systems website at www.ricelake.com/health

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:



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.



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.



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



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.

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.



2.0 Assembly

2.1 Unpacking

A minimum of two people should transport, unpack and assemble the scale for their own personal safety and ensure the integrity of the scale. Place the unopened box in an open area that has ample room for unpacking the scale. Use caution while removing packaging and unpacking the scale. After unpacking, visually inspect the 260-10-1 bariatric handrail scale to ensure all components 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:

- Scale platform with handrail center post
- Indicator
- Handrails
- · Parts kit including hardware for assembly
- · Six AA non-rechargeable batteries

2.1.1 Repackaging

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 bariatric handrail scale.

- 1. Move the scale to the area where the weighing process will occur. Place the scale on a hard, level surface for the most accurate weighments. A 3/8 inch socket wrench (or equivalent) and a Phillips screwdriver are required for assembly.
- A minimum of two people should carefully remove the scale by lifting it out of the box by the scale base.

IMPORTANT

Do not lift the scale out of the box by the handrail post as this may cause damage.

- 3. Place the scale on the floor or other hard level surface.
- 4. Remove the screw knob at the base of the handrail center post



Figure 2-1. Scale in Shipping Position

5. Lift the handrail center post until it is perpendicular to the base.

6. Insert and tighten the screw knob on the base until the handrail center post is rigid and does not move.

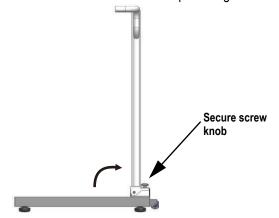


Figure 2-2. Scale in Upright Position

7. Roll back the rubber grip from each handle.



Figure 2-3. Scale Handrail

8. Insert the handles into the handrail post (Figure 2-4).

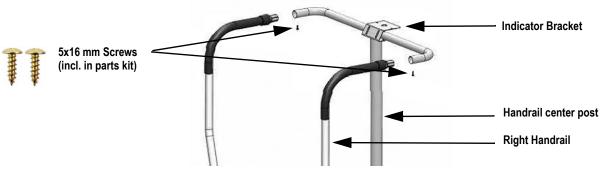


Figure 2-4. Handrail to Post Assembly

The right handrail is denoted by a red dot sticker on the base end of the handrail (Figure 2-5). This sticker may be removed after assembly.



Figure 2-5. Right Handrail Designation

9. Insert the screws and tighten with a Phillips screwdriver to secure the handles to the handrail base.



10. Roll the rubber grips back into position.



Figure 2-6. Rubber Grips in Proper Position

- 11. Gently tip the scale and lay it down so that the handrail center post is touching the floor.
- 12. Insert the bolts and washers, in the order shown, from underneath the platform and into the handrails. Tighten with a 3/8 inch socket wrench.

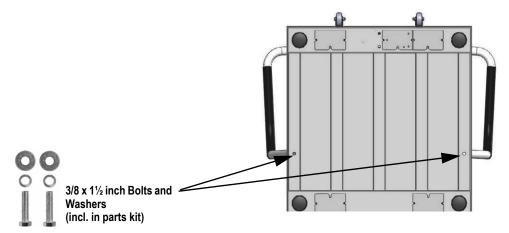


Figure 2-7. Handrail to Base Assembly

- 13. Secure the indicator to the handrail center post by inserting two screws and washers, in the order shown, from the top plate of the indicator and through the bracket.
- 14. Tighten with a Phillips screwdriver.

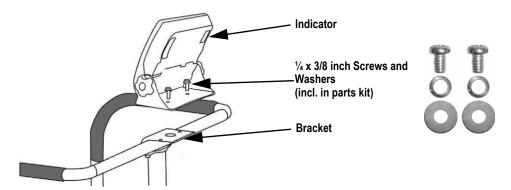


Figure 2-8. Indicator Assembly

15. Remove the four screws securing the back cover to the indicator with a Phillips screwdriver.

- 16. Connect the cable to the indicator by plugging it into the load cell connection port.
- 17. Replace the back cover of the indicator and the four screws and secure with a Phillips screwdriver.

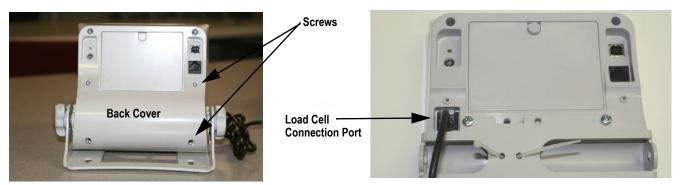


Figure 2-9. Indicator to Load Cell Cable Connection

2.2.1 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 2-10. Battery Chamber

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



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



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.



2.2.2 Power Connection

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



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.

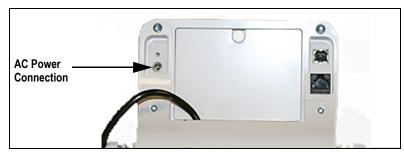


Figure 2-11. Power Connection Site



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 | |
| | | 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 | |
| Only functions if the current weight is stable and less than 2% of the capa a recalibration | | Only functions if the current weight is stable and less than 2% of the capacity of the scale. Anything over 2% requires a recalibration | |
| | | 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 ((F)) | TARE | Used to remove the weight initially of anything on the scale that shouldn't be included in the total weight of the 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.
- 4. Press and hold **(b)** 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.



Pressing () will not work while using Hold/Release function.



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.



Note Not removing the additional item(s) prior to patient weighing will also work.

- 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.



Tare weight is also canceled when the scale is turned off.

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] 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 pro | | | |
| | 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 leve 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



Communication 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 (Q) 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



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.



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).
- 2. Turn the indicator on.



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.

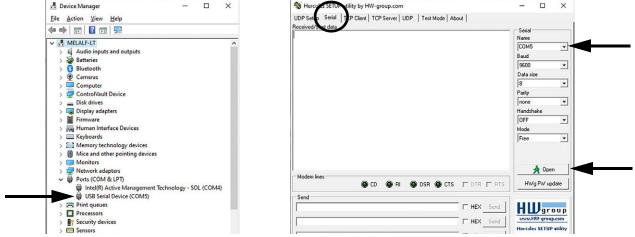


Figure 4-2. Connecting to a Serial Port

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.

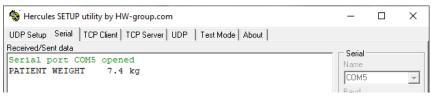


Figure 4-3. Patient Weight Displayed



5.0 Maintenance

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



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

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

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



6.0 Optional Accessories

6.1 Height Rod (PN 172958)

The optional height rod can be attached to the 260-10-1 bariatric handrail scale and the combination provides a single, convenient multi-purpose station for obtaining height and weight on individual patients.

6.1.1 Unpacking the Height Rod

Parts contained in the shipping box include:

- · Height rod with attached bracket
- · Bracket insert
- · Two screw knobs



Figure 6-1. Height Meter Parts

After unpacking, visually inspect the height rod to ensure all components are included and undamaged. Contact Rice Lake Weighing Systems and the shipper immediately if the height rod was damaged during shipping.

6.1.2 Assembling the Height Rod

The height rod must be attached to the 260-10-1 scale handrail center post using the following steps.

1. Insert the bracket insert into the bracket. The bracket insert is slightly more flared on one side and this must be placed toward the height rod. If the bracket insert is inserted incorrectly, there will be a gap between the bracket insert and the bracket on the outside edge. When inserted correctly, the outside edges of the bracket and the bracket insert will fit snugly and be flush.



Figure 6-2. Bracket Insert Placement

2. Insert the screw knobs through the holes in the bracket and the bracket insert. See Figure 6-2.

- 3. Working from the back of the scale and facing the handrail center post, tilt the top edge of the height rod assembly and insert the height rod between the handrail and the handrail center post. Raise the top edge of the height rod so it runs parallel to the handrail center post. See Figure 6-3.
- 4. Position the bracket and the screw knobs to line up with the holes in the back of the handrail center post.
- Tighten the screw knobs until the bracket is rigid and does not move.



Figure 6-3. Secure Height Meter Assembly to Scale

6. Verify the height rod by measuring an object of known height and adjust, if necessary.

The Rice Lake 260-10-1 Bariatric Handrail Scale and height rod assembly is now ready for use.

6.1.3 Using the Height Rod

The height rod can measure persons from 25½ - 83 inches (65 - 211 cm). The inner section of the height rod slides through the outer section, raising and lowering the headpiece to easily accommodate persons of different heights.

- 1. Raise the headpiece until it is perpendicular to the height rod and snaps into place.
- 2. Raise the inner section of the height rod until the person can easily walk under the headpiece.

For persons shorter than 55 in (139 cm)

- 3. Lower the inner section of the height rod until the headpiece just touches the top of the persons head.
- 4. Read the height measurement at the red line underneath the headpiece next to the meter.

For persons taller than 55 in (139 cm)

- 5. Lower the inner section of the height rod until the headpiece just touches the top of the persons head.
- 6. Read the height measurement at the red line on the outer section of the height rod.

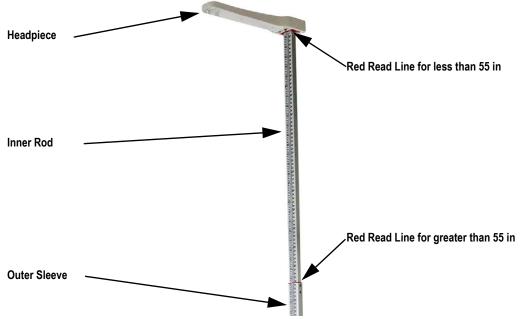


Figure 6-4. Height Rod Measurement Parts



7.0 Specifications

Power

Optional AC Adapter - 120 VAC-9VDC-60Hz or 230 VAC

Battery Type

6 AA size non-rechargeable alkaline batteries

Battery Use

25 hours continuous use

Automatic power-off can be configured

Data Communications

RS-232 with RJ-45 jack

USB connection

Selectable baud rate, default - 9600

8 bits

No parity

1 stop bit

No handshaking

Environmental

Operating Temperature 50°F to 104°F (10°C to 40°C)
Storage Temperature 32°F to 158°F (0°C to 70°C)
Humidity 85% relative humidity

Capacity

800 lb x 0.2 lb (360 kg x 100 g)

Dimensions

Platform Dimensions 23½ in W x 23½ in L x 2¾ in H

Overall Height $33\frac{1}{2}$ in Height w/ Height Rod (optional) $87\frac{1}{2}$ in







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