

# LSS SERIES

Large Shipping Scale



LSS 200 / LSS 400

# **Operating Manual**

Professional Weighing Equipment

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# **Declaration of Conformity**

Declaration of conformity for apparatus with CE mark

We hereby declare that the product to which this declaration refers conforms to the following standards.

Electronic scale: LSS-Large Shipping Scales

#### **Available Models**

LSS 200 LSS 400

Mark Applied	EU Directive	Standards
CE	2004/108/EC	EN 61326-1: 2006

Signature:

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Date: 14. 11. 2012

LW Measurements, LLC, 620 Carlson Court, Rohnert Park, CA 94928

### **Customer Service**

#### **USA**

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USA

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### **Introduction**

#### What you should know about this Operation Manual:

Tree® Professional Weighing Equipment products are simple to operate. Nevertheless, you should read through these operating instructions in their entirety, so that you can make optimum use of the full potential of the weighing scale in your daily work activities.

These operating instructions contain guidance in the form of pictograms and keyboard diagrams, which should help in finding the required information:

For the labeling of potential hazards, please refer to the safety proportion of this operation manual.

# **Safety**

#### Representations & Symbols

Note: Important instructions which involve safety are highlighted with the appropriate mark:

# **M** DANGER

#### **Safety Recommendations**

When using the weighing equipment in surroundings with increased safety requirements, the corresponding regulations must be observed.

The weighing scale may only be used with the power adapter supplied.

Before connecting the power adapter to the scale, the user must ensure that the operating voltage stated on the power adapter is compliant with the mains voltage. If not, please contact Customer Service at the address above.

If the power adapter or its cable is damaged, the weighing scale must immediately be disconnected from the electricity supply (unplug the power adapter).

If there should be any reason to believe that it is no longer safe to operate the scale, it should be immediately unplugged from the electricity supply (unplug power adapter) and secured against inadvertent operation.

During maintenance work, it is essential to follow the recommendations set out in maintenance and servicing.

The weighing scale must not be operated in an area subject to explosion risks.

Care must be taken when weighing liquids to ensure that no liquid is spilled inside the scale, into connections on the rear of the equipment, or the power adapter. If liquid is spilled on the scale, it must immediately be unplugged from the main electricity supply (unplug power adapter).

The weighing scale may be operated after it has first been inspected by a service technician.

These operating instructions must be read by each user and should always be easily accessible at the workplace.

# Weight Scale

#### **Construction & Functions**

The weighing scale consists of the following parts.

- 1. Indicator
- 2. Scale Base
- 3. AC Adapter
- 4. Operating Manual

1



2





4

### **Functions**

The LSS Series are high-quality electronic precision weighing scales with counting function and the following specifications.

Model Number	Capacity	Graduation	Weighing Pan Size
LSS 200	200lb	0.05lb	14 x16in / 355 x 405 mm
LSS 400	400lb	0.1lb	14 x16in / 355 x 405 mm
Net/Gross Weight	2.8 kg/4.2 kg		
Package (Standard Carton)	21 x 18 x 5 inches		
Package (Master Carton)	5 units in one box: 274 x 22 x20 inches		
Operating Temp.	15-30°C (62-90°F)		
Power Source	6 x AA dry cells (not included) or AC/DC		
	Adapter: 9V / 100mA		

#### **Features**

- 1. Auto shut off (selectable)
- 2. Auto zero tracking
- 3. Large LCD
- 4. Large square weighing pan
- 5. AC power
- **6.** Hold function
- 7. AnyCal software
- 8. Auto backlight (selectable)
- **9.** Error message indication

### Details of your weighing scale



### **Application & Conformity**

The following are instructions on how to correctly use the scale:

The scale may only be used for the weighing of solid materials and of liquids contained in secure containers.

The maximum capacity load of the weighing scale must be correctly entered in the scale program, otherwise the weighing scale may be damaged.

In using the scale in combination with other devices including those produced by other manufacturers, the appropriate regulations for the safe use of the relevant attachments and their application in accordance with instructions must be observed.

The scale has been manufactured and tested in accordance with the standards and recommendations set out in the declaration of conformity.

The power adapter supplied for the scale complies with the appropriate electrical protection class.

#### The following applies to the LSS series.

#### Power supply:

Input: 110V AC 50Hz to 60Hz

Output: 9v 400mAh

#### Allowable ambient conditions:

Temperature: 32°F - 104°F / 5°C. 40°C

#### **Relative humidity:**

25% - 85%, non-condensing

\*\*\* NOTE: If you have any questions on the technical data or require detailed technical information on your balance, please contact your technical representative. \*\*

### **Getting Started**

The scale is packaged in an environmentally friendly carton, which provides optimum protection for scale during transportation.

We suggest that you keep the original packaging to avoid damage if you are shipping or transporting the scale to a different location. It is also the best way to keep it in the best condition if it will not be used for an extended period.

To avoid damage, please follow the instructions provided below, when unpacking the scale:

- I. Unpack the scale carefully.
- II. When outside temperatures are very low, the indicator should be stored for a couple hours in its box in a dry room at normal temperature. This prevents condensation from settling on the unit when opening the box.
- III. Check the scale immediately after unpacking for any external visual damage. If there is any damage to the scale, contact customer service immediately.
- IV. If the scale is not to be used immediately after purchase, it should be stored in a dry place where fluctuations in temperature are low. (reference pg.18).
- V. Read through these operating instructions before you work with the unit and pay attention to the safety recommendations (reference Safety pg. 5).

# **Delivery**

Inspect delivery for completeness immediately upon unpacking all components.

#### **Checklist for complete delivery**

Component	Present Yes / No
Scale Base	
Indicator Unit	
Power Adapter	
Operating Manual	

### **Assembly & Installation**

The indicator is delivered in a partly dismantled condition. Assemble the individual components in the following sequence:

 Mount your machine on a clean and dry surface to ensure you get the best visibility of your readings.

#### **Connecting the AC Adapter**

The following safety recommendations must be observed when connecting the balance:

# **⚠** DANGER

The scale should only be connected to the mains voltage socket with the power adapter supplied. Before connecting the power adapter to the mains socket, check that the operating voltage stated on the power adapter complies with the local mains voltage.

If the operating voltage is not the same as the mains voltage, the power adapter must not be connected to the mains socket and contact customer service.

#### **Placement of Scale**

The location in which the scale is placed is very important for the scale to work to its full potential. Certain conditions can affect the capabilities of the scale, such as presence of air flow, variations in temperature, and direct sunlight. Please follow the recommendations given below when choosing a location to place your scale.

- Place the indicator on a solid, firm, and preferably vibration-proof surface.
- Make sure that the indicator cannot be shaken or knocked over.
- Protect from direct solar radiation.
- Avoid drafts and excessive temperature fluctuations.
- Avoid placing the indicator near or on any magnetic surfaces.

# **Key Functions**

- wey is to turn the balance on or off
- HOLD key is used to hold the weight value
- key sets display to zero
- key is to toggle between different units of measurement
- LARE key is for subtracting the container weight



# **Function Settings**

#### **Auto Shutoff**

• Press and hold HOLD key then press Rey to turn on the scale, the display will show **A-ON** or **A-OFF**, press Rey to select (**A-ON** means auto power off function activate, **A-OFF** means auto power off function inactivate). Press the HOLD key to continue to the backlight setting.

#### **Backlight**

• Press LINIT key, the display will show **L-ON**, **L-OFF**, or **L-Au**, press Lero key to select (**L-ON** means auto backlight function is **active**; **L-OFF** means auto backlight function is **inactive**, and **L-Au** means backlight under **auto** mode). Press the HOLD key to continue to the auto hold setting.

#### **Auto Hold Setting**

• Press HOLD key, the display will show **H-ON** or **H-OFF**, press Zero selection, display will show **H-ON**, this means **AUTO-HOLD** function active, press Zero again, the display will show **H-OFF**, this means **AUTO- HOLD** function inactive.

#### **Return to Weighing Mode**

• Return to weighing mode. Press only to turn the power off, press again, to turn on the power and the scale return to the weighing mode.

### **Calibration**

Calibration is done in the factory. Don't recalibrate the machine unless it is not accurate.

Calibration may be required when the weighing scale is initially installed or if the scale is moved a substantial distance from the original location. The weighing machine should be allowed to warm up for 10 minutes before calibration.

#### What you need:

- 1. Using a calibration or test weight that is **2/3** of the max capacity is strongly recommended for recalibration.
- 2. If you do not have a test weight or calibration weight. You can use any object of "known weight" to calibrate with our scales **AnyCal** Calibration software.

\*\*\*NOTE: When calibrating even if you use a "known weight" the more exact the weight is the more precise the calibration will be. \*\*\*

#### Prepare for calibration by following these steps:

- Press and hold Zero key, then press key to turn on the scale, the display will show **XXX.XX kg**.
- Press the with key to select setting unit between kg and lb.
- Press Hold key to **move flashing digit** to the **right**, press zero key to **increase** flash digit.
- Press Key, the display will show **CAL** and **AD value**.
- Press weight key, the display will show flashed calibration weight. Place the shown weight then press weight key, the display will show "----" then **AD value**.
- Take off calibration weight then turn **off** the scale.
- Calibration is finished.

#### **Maintenance & Service**

# **⚠** DANGER

- For maintenance work, the balance must be disconnected from the power supply (remove power adapter plug from socket). Also, ensure that the balance cannot be connected to the power supply during the work by a third party.
- Make sure that no liquid spills into the scale while performing maintenance work. If liquid is spilled on the scale, it must be inspected by a service technician.
- Regularly maintain the weighing pan and the weighing pan holder by removing any dirt or dust from under the weighing pan and on the weighing scale housing. Use a soft brush or a soft, lint-free cloth moistened with a mild soap solution.
- <u>Never</u> use solvents, acids, alkalis, paint thinners, scouring powders, or other aggressive or corrosive chemicals for cleaning; these substances can cause damage to the surfaces of the scale housing.

### **Transportation & Storage**

Your weighing machine is a precision instrument, treat it carefully. Avoid shaking, severe impacts, and vibration during transportation. Make sure that there are no marked temperature fluctuations during transportation and that the weighing machine does not become damp (condensation).

If you would like to take the weighing machine out of service for an extended period, disconnect it from the electricity supply, clean it thoroughly (refer to Maintenance & Service) and store it in a place that meets the following conditions:

- No violent shaking or vibrations
- Minimum temperature fluctuations
- No direct solar radiation
- Minimum moisture

The weighing machine should preferably be dispatched and transported in the original packaging to avoid transportation damage.

# **CAUTIONS**

- Do not place the scale in direct sunlight, as this may cause discoloration or affect functionality.
- Avoid using the scale on carpeted surfaces, as this can result in inaccurate measurements and may require recalibration.
- Replace all batteries at the same time Replacing only some of the batteries may cause the scale to malfunction.
- If the scale will not be used for an extended period, remove all batteries from the battery compartment to prevent leakage and potential damage.
- Never exceed the scale's maximum capacity. Overloading the scale may cause permanent damage and void the warranty.
- Keep the scale away from water. This scale is not water resistant. Using it in wet or damp environments may result in electric shock, injury, or equipment failure.

# **Troubleshooting**

Error Code	Issue	Troubleshoot	Solution	
ERR-O/0	Overload error	Turn scale off, then back on, and try weighing using weight under max capacity to verify loadcell still functions.	If scale still registers accurate weight refrain from continued over loading. If error continues loadcell may be damaged.	
ERR-Z/2	Exceeded zero tracing range when powered on.	I platform Turn scale back on and		
ERR-S/5	Scale not stable when powered on.	Scale not stable when powered on.  Make sure scale is stable when powered on. Do not touch, shift, or place anything on the weighing platform until after the countdown.		
ERRC	Calibration weight was not entered during calibration	Enter calibration weight during calibration process.	If error persists, call support.	
ERRP	Counting set error	Place sample before entering counting settings.	If error persists, call support.	
ERRL	Calibration weight was not placed during calibration.	Be sure to place weight when recalibrating.	If error persists, call support.	
ERR-E	Software issue	If error persists, call support.	If error persists, call support.	
ERR-B/6	RRB/6 Low battery error Attempt to charge battery		If error persists, battery will need to be replaced. Make sure to not leave scale with rechargeable battery plugged in constantly.	
For any error that is not shown on this list or that persists after troubleshooting you will need to contact support.				



Your support enables us to continue creating and providing highquality products and services. We hope you enjoy your new scale and that it brings you as much satisfaction as it brings us to serve customers like you.

We would love to know what you think of our TREE products and your experience with us. If you have a chance, please visit <a href="https://www.lwmeasurements.com">www.lwmeasurements.com</a> and leave a review.

Thank you for choosing LW Measurements family.

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