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› Mxmoonfree Digital Thickness Gauge LS-7 User Manual

## Mxmoonfree LS-7

# Mxmoonfree Digital Thickness Gauge LS-7 User Manual

Model: LS-7 | Brand: Mxmoonfree

## INTRODUCTION

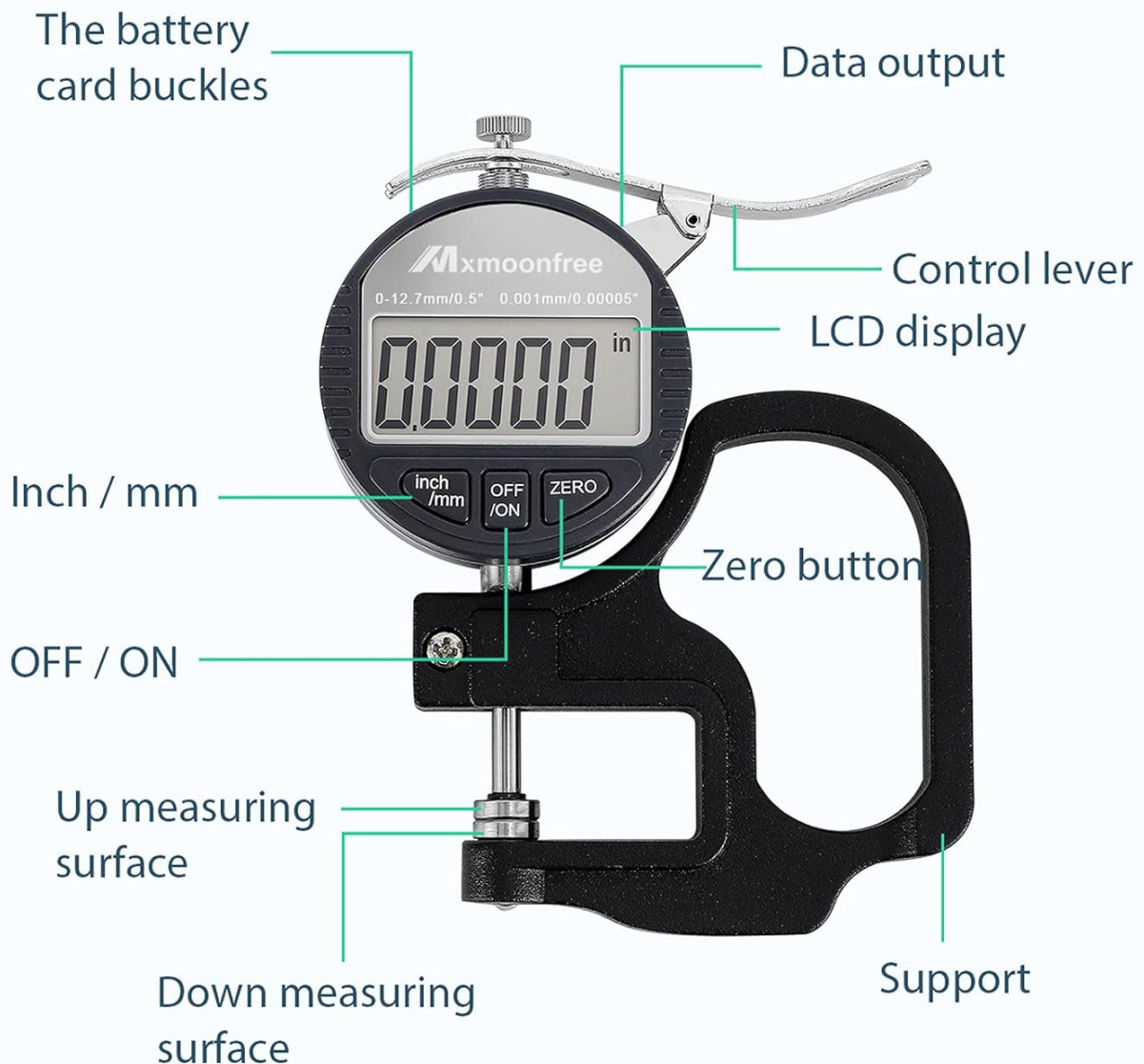
Thank you for choosing the Mxmoonfree Digital Thickness Gauge LS-7. This precision electronic micrometer is designed for accurate measurement of material thickness, offering high resolution and ease of use. This manual provides detailed instructions for the proper setup, operation, and maintenance of your device to ensure optimal performance and longevity.

The gauge features a measurement range of 0-12.7 mm (0-0.5 inches) with a resolution of 0.001 mm (0.00005 inches), making it suitable for various applications including measuring paper, film, leather, sponges, and wires.

## PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main components of your digital thickness gauge:

# PRODUCT STRUCTURE



**Image:** Product Structure. This image displays the digital thickness gauge with labels pointing to its various parts, including the LCD display, control lever, data output port, battery compartment, Inch/mm button, OFF/ON button, Zero button, up measuring surface, down measuring surface, and support frame.

- **Control Lever:** Used to open and close the measuring jaws.
- **LCD Display:** Shows measurement readings, units (mm/inch), and battery status.
- **Inch / mm Button:** Toggles between metric (mm) and imperial (inch) units.
- **OFF / ON Button:** Powers the device on or off.
- **Zero Button:** Resets the display to zero at any position.
- **Up Measuring Surface:** The upper contact point for measurement.
- **Down Measuring Surface:** The lower contact point for measurement.
- **Support:** The frame that holds the measuring components.
- **Data Output Port (Port A):** RS232 interface for data transfer (requires a separately purchased data output tool).
- **Battery Compartment (Port B):** Houses the LR44 button cell battery.

### Battery Installation

The device requires one LR44 1.5V button cell battery. Two batteries are typically included with the gauge.



**Image:** Convenient Ports. This image highlights the RS232 data output interface (Port A) and the LR44 battery compartment (Port B) on the digital thickness gauge, with the battery cover removed and a battery visible.

1. Locate the battery compartment (Port B) on the side of the gauge.
2. Carefully remove the battery compartment cover.
3. Insert one LR44 battery with the positive (+) side facing upwards.

4. Replace the battery compartment cover securely.

## Initial Power On

Press the **OFF/ON** button to power on the device. The LCD display should light up and show a reading.

## OPERATING INSTRUCTIONS

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### Power On/Off

- To turn on the gauge, press the **OFF/ON** button.
- To turn off the gauge, press and hold the **OFF/ON** button for a few seconds, or the device will automatically shut off after 5 minutes of inactivity to conserve energy.

### Zeroing the Gauge

Before taking a measurement, it is crucial to zero the gauge for accuracy.

1. Ensure the measuring surfaces are clean and free of dust or debris.
2. Gently close the measuring jaws until the measuring surfaces are in full contact.
3. Press the **ZERO** button. The display should now read "0.000" or "0.00000".

### Taking a Measurement

The ergonomic design with a grip handle and thumb trigger facilitates easy operation.

# EASY TO OPERATE

GRIP HANDLE AND THUMB TRIGGER MAKE THE THICKNESS METER EASY TO OPERATE AND HOLD.

Measured object A



Measured object B



**Image:** Easy to Operate. This image shows a hand holding the digital thickness gauge and measuring the thickness of two different objects (Object A and Object B), illustrating the grip handle and thumb trigger mechanism.

1. Hold the gauge comfortably with one hand, using the grip handle.
2. Use your thumb to press the trigger, opening the measuring jaws.
3. Place the material to be measured between the up and down measuring surfaces.
4. Release the trigger gently, allowing the jaws to close onto the material.
5. Read the thickness measurement directly from the LCD display.

## Unit Conversion (mm/inch)

The gauge allows for instant conversion between millimeters (mm) and inches (in) without needing to re-zero.

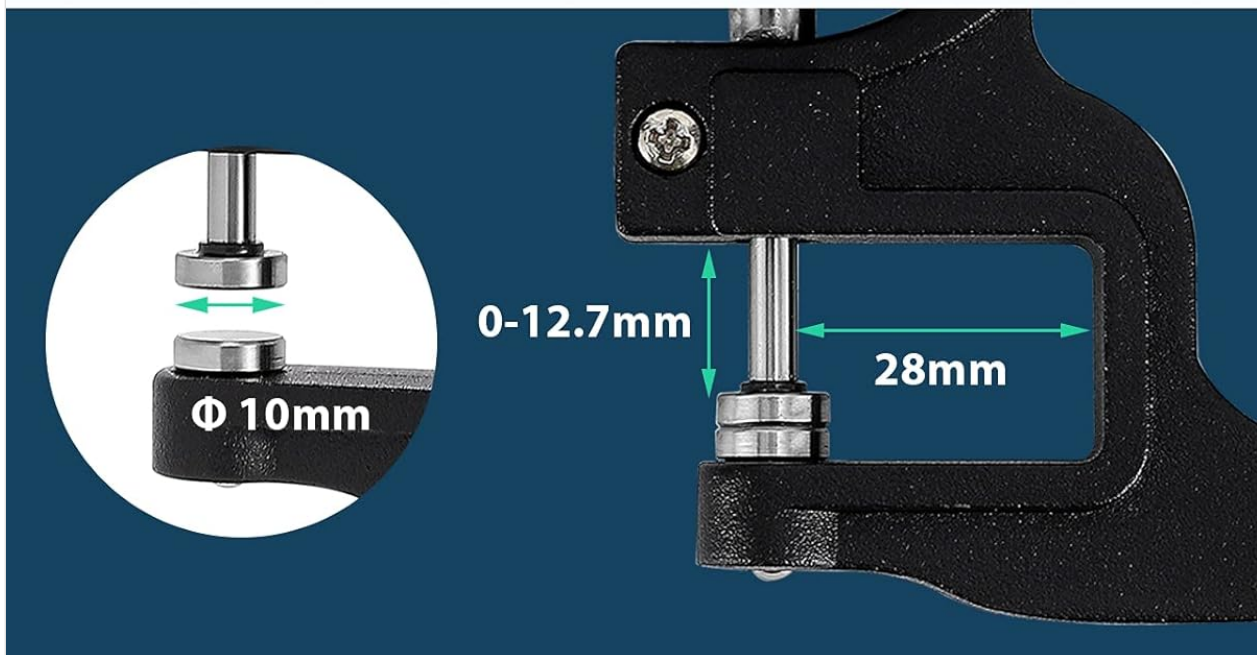
# INCH/METRIC CONVERSION



**MM**



**INCH**



**Image:** Inch/Metric Conversion. This image displays two instances of the digital thickness gauge, one showing a measurement in millimeters (mm) and the other showing the same measurement converted to inches (in), demonstrating the unit conversion feature.

- After taking a measurement or at any time, press the **Inch / mm** button.
- The display will switch between millimeters and inches.

## MAINTENANCE

### Cleaning

- Regularly clean the measuring surfaces with a soft, dry cloth to ensure accurate readings.

- Avoid using solvents or abrasive cleaners, as these can damage the display or the gauge's finish.

## Storage

When not in use, store the digital thickness gauge in its protective case to prevent damage.

# WITH STORAGE BOX

Each gauge comes with 2 Pcs LR44 battery



**Image:** With Storage Box. This image shows the digital thickness gauge neatly placed inside its custom-fit protective storage box, along with an after-sales service card and spare LR44 batteries.

- Store the gauge in a dry environment, away from direct sunlight and extreme temperatures.
- Ensure the measuring jaws are slightly open to avoid putting continuous pressure on the surfaces.

## Battery Replacement

When the display becomes dim or erratic, it's time to replace the LR44 battery. Follow the battery installation steps outlined in the Setup section.

## TROUBLESHOOTING

- **Display Not Working:** Check if the battery is correctly installed and has sufficient power. Replace the battery if necessary.
- **Inaccurate Readings:** Ensure the measuring surfaces are clean. Re-zero the gauge before taking measurements. Avoid applying excessive force during measurement.
- **Display Flashing/Erratic:** This may indicate a low battery. Replace the LR44 battery.
- **Gauge Not Powering On:** Verify battery installation and charge. If the issue persists, contact customer support.

## SPECIFICATIONS

Feature	Specification
Measurement Range	0-12.7 mm (0-0.5 inches)
Resolution	0.001 mm (0.00005 inches)
Battery Type	1 x LR44 1.5V Button Cell (2 included)
Operating Temperature	0-40 °C (32-104 °F)
Automatic Power-Off	After 5 minutes of inactivity
Material	Steel Alloy
Model Number	LS-7
Package Dimensions	18.8 x 14.6 x 5.79 cm
Weight	453.59 grams (approx. 1 pound)

## WARRANTY AND SUPPORT

### Warranty

This Mxmoonfree Digital Thickness Gauge LS-7 comes with a 365-day warranty from the date of purchase, covering manufacturing defects.

### Technical Support

For any technical assistance or inquiries, 24-hour online technical support is available. Please refer to the product packaging or the seller's contact information for details on how to reach support.