

Neoteck 0-0.5"/0.0005"

Neoteck Digital Thickness Gauge User Manual

Model: 0-0.5"/0.0005"

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your Neoteck Digital Thickness Gauge. Please read this manual thoroughly before operation and retain it for future reference. This precision instrument is designed for accurate measurement of various materials.

2. SAFETY INFORMATION

- Handle the gauge with care to avoid damage to the measuring surfaces or internal components.
- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Keep the gauge away from strong magnetic fields.
- Avoid dropping the instrument or subjecting it to strong impacts.
- Remove the battery if the gauge will not be used for an extended period to prevent leakage.

3. PRODUCT OVERVIEW

The Neoteck Digital Thickness Gauge is a precision tool for measuring the thickness of various materials. It features a digital LCD display for clear readings and a robust construction for durability.

Multifunctional Digital Thickness Gauge

Achieves full-scene thickness precision measurement from metal substrate to flexible film



Figure 3.1: Labeled diagram of the Neotek Digital Thickness Gauge, indicating components such as the control lever, battery replacement port, LCD display, zero setting button, unit conversion button, power on/off, upper and lower measuring heads, and overall dimensions.

Components:

- **Control Lever:** Used to open the measuring jaws.
- **Battery Replacement Port:** Access point for battery installation.
- **LCD Display:** Shows measurement readings.
- **ZERO Button:** Sets the display to zero.
- **Inch/mm Button:** Toggles between imperial (inches) and metric (millimeters) units.
- **OFF/ON Button:** Powers the device on or off.
- **Upper Measuring Head:** Stationary measuring surface.
- **Lower Measuring Head:** Movable measuring surface.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover, typically on the back or side of the display unit.

2. Open the cover.
3. Insert one LR44 1.5V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

4.2 Initial Zero Setting

1. Ensure the measuring surfaces are clean and free from dust or debris.
2. Gently close the measuring heads by releasing the control lever.
3. Press the "ZERO" button. The display should show "0.0000" or "0.00" depending on the unit setting. If not, repeat the process.

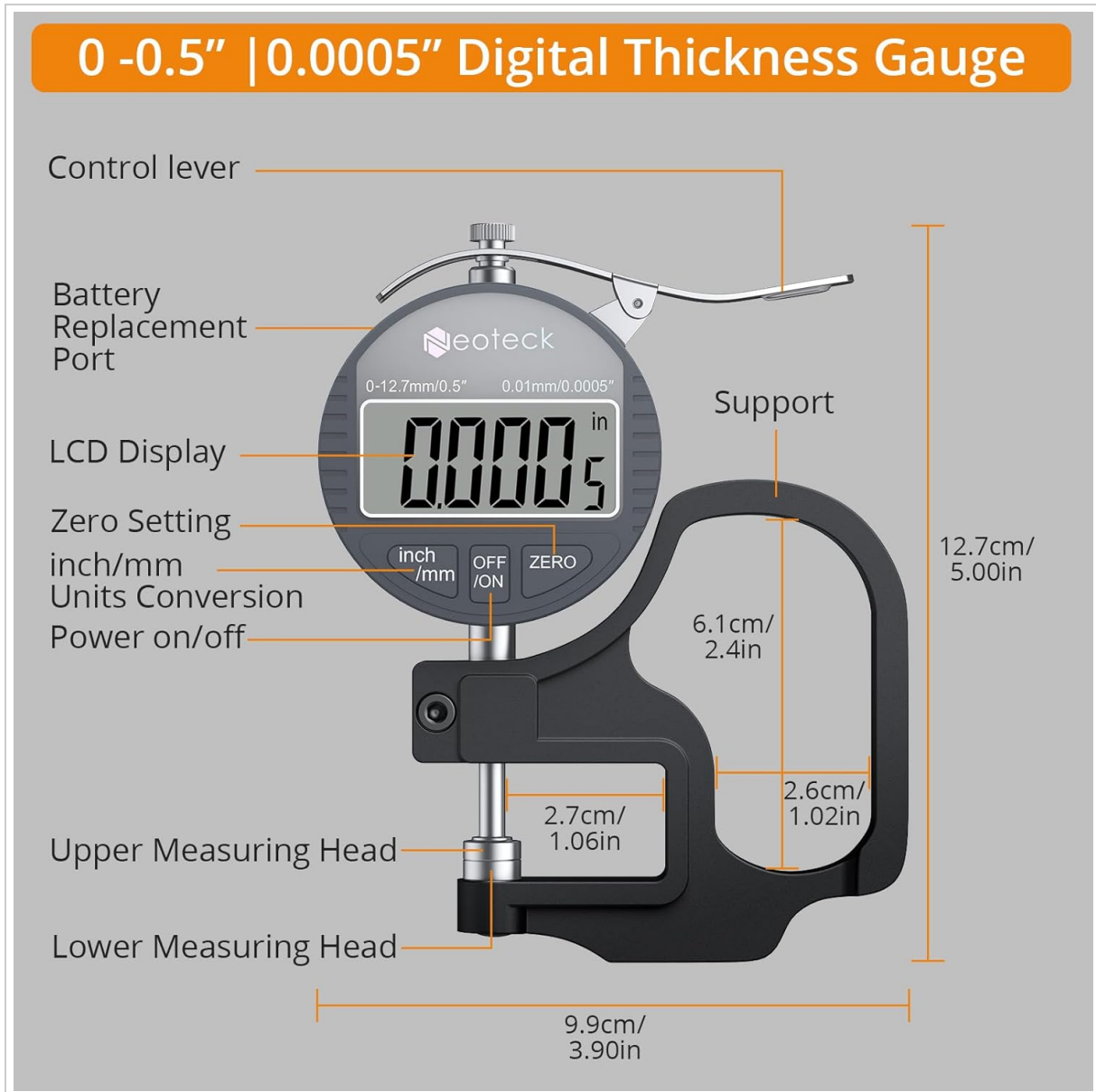


Figure 4.1: Illustration of the two-step measurement process: first, merging the probe and zeroing the display, then placing the object between the measuring heads.

5. OPERATING INSTRUCTIONS

5.1 Taking a Measurement

1. Press the "OFF/ON" button to power on the gauge.
2. Ensure the gauge is zeroed as described in Section 4.2.
3. Press the control lever to open the measuring heads.

4. Carefully place the material to be measured between the upper and lower measuring heads.
5. Release the control lever gently, allowing the measuring heads to close onto the material. Avoid applying excessive pressure.
6. Read the thickness value displayed on the LCD screen.
7. For optimal accuracy, it is recommended to take multiple measurements and average the results.



Figure 5.1: The Neoteck Digital Thickness Gauge in operation, demonstrating its use for measuring the thickness of various materials such as metal sheets and flexible films.

5.2 Unit Conversion (Inch/mm)

To switch between imperial (inches) and metric (millimeters) units, press the "inch/mm" button. The display will instantly convert the reading to the selected unit.

Alloy Measuring Surface for Seamless Measurement

Suitable for measuring flat/soft materials, paper, leather, film, etc

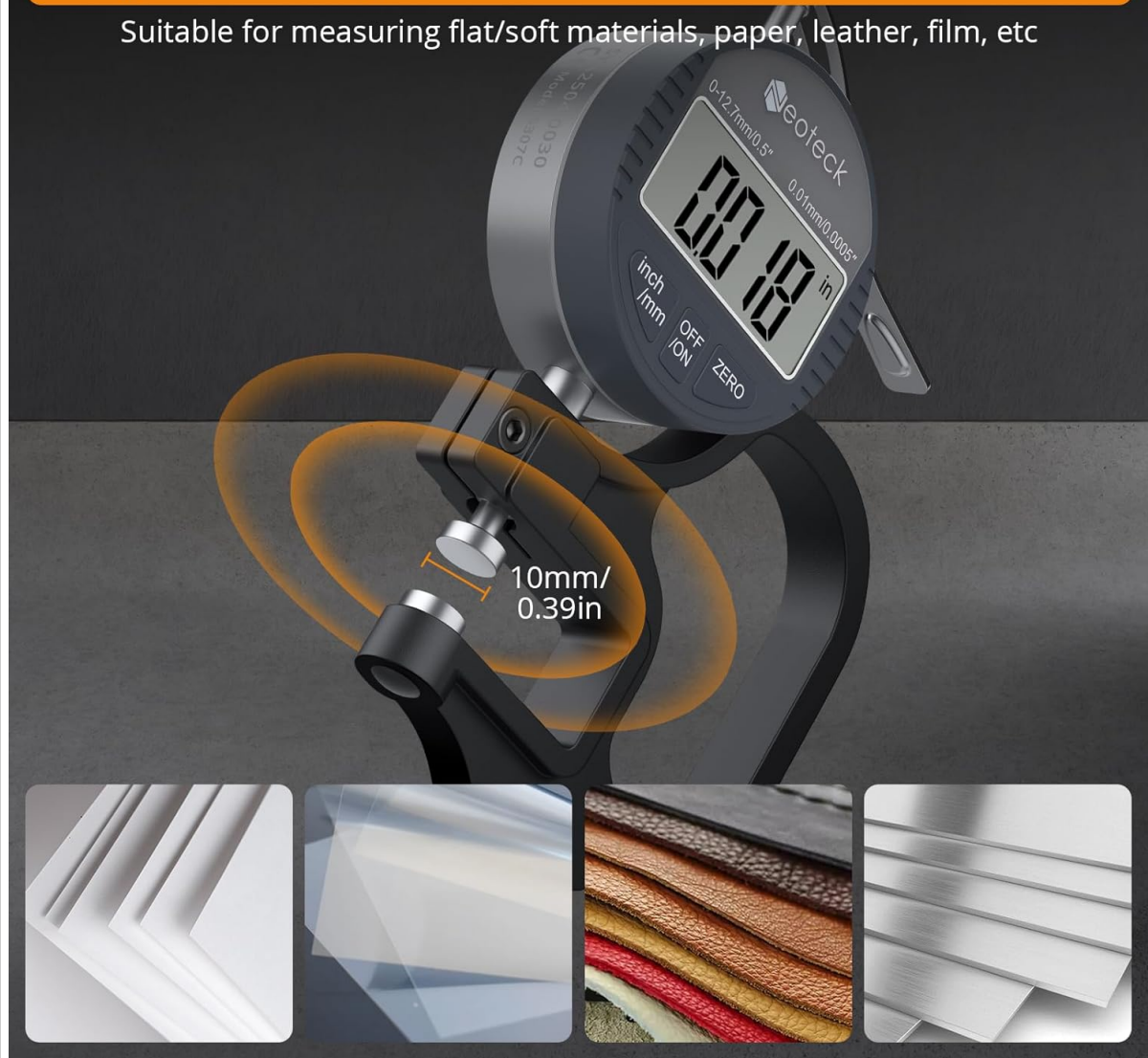


Figure 5.2: The gauge's LCD display illustrating the instant conversion between millimeter and inch readings.

5.3 Auto Power-Off

The gauge features an automatic power-off function after approximately 5 minutes of inactivity to conserve battery life.

6. MAINTENANCE

- **Cleaning:** Wipe the gauge with a clean, dry, soft cloth. Do not use solvents or abrasive cleaners. Ensure the measuring surfaces are always clean.
- **Storage:** Store the gauge in its protective case in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Battery:** Replace the battery when the display becomes dim or erratic. Remove the battery if storing for extended periods.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Display does not turn on.	Dead or incorrectly installed battery.	Replace the battery or ensure it is installed with correct polarity.
Inaccurate readings.	Measuring surfaces are dirty; gauge is not zeroed; excessive pressure applied.	Clean measuring surfaces; re-zero the gauge; apply gentle pressure.
Display shows erratic numbers.	Low battery; environmental interference.	Replace battery; move away from strong electromagnetic fields.

8. SPECIFICATIONS

Feature	Detail
Measurement Range	0-0.5 inches (0-12.7 mm)
Resolution	0.0005 inches (0.01 mm)
Measurement Accuracy	±0.0005 inches (±0.01 mm)
Response Time	≤0.5 m/s
Display	LCD with backlight
Units	Inch / Millimeter
Power	1 x LR44 1.5V Battery (included)
Auto Power-Off	Approx. 5 minutes
Operating Temperature	0°C to 40°C (32°F to 104°F)
Material	Aluminum Alloy / Iron
Product Dimensions	Approximately 5"L x 3.66"W (120 x 105 x 25mm)
Weight	Approximately 206g (7.27 oz)

9. WHAT'S IN THE BOX

- 1 x Neoteck Digital Thickness Gauge
- 1 x 1.5V LR44 Battery
- 1 x Instruction Manual

High Performance Chipset

Supports More Stable & Precise Measurement

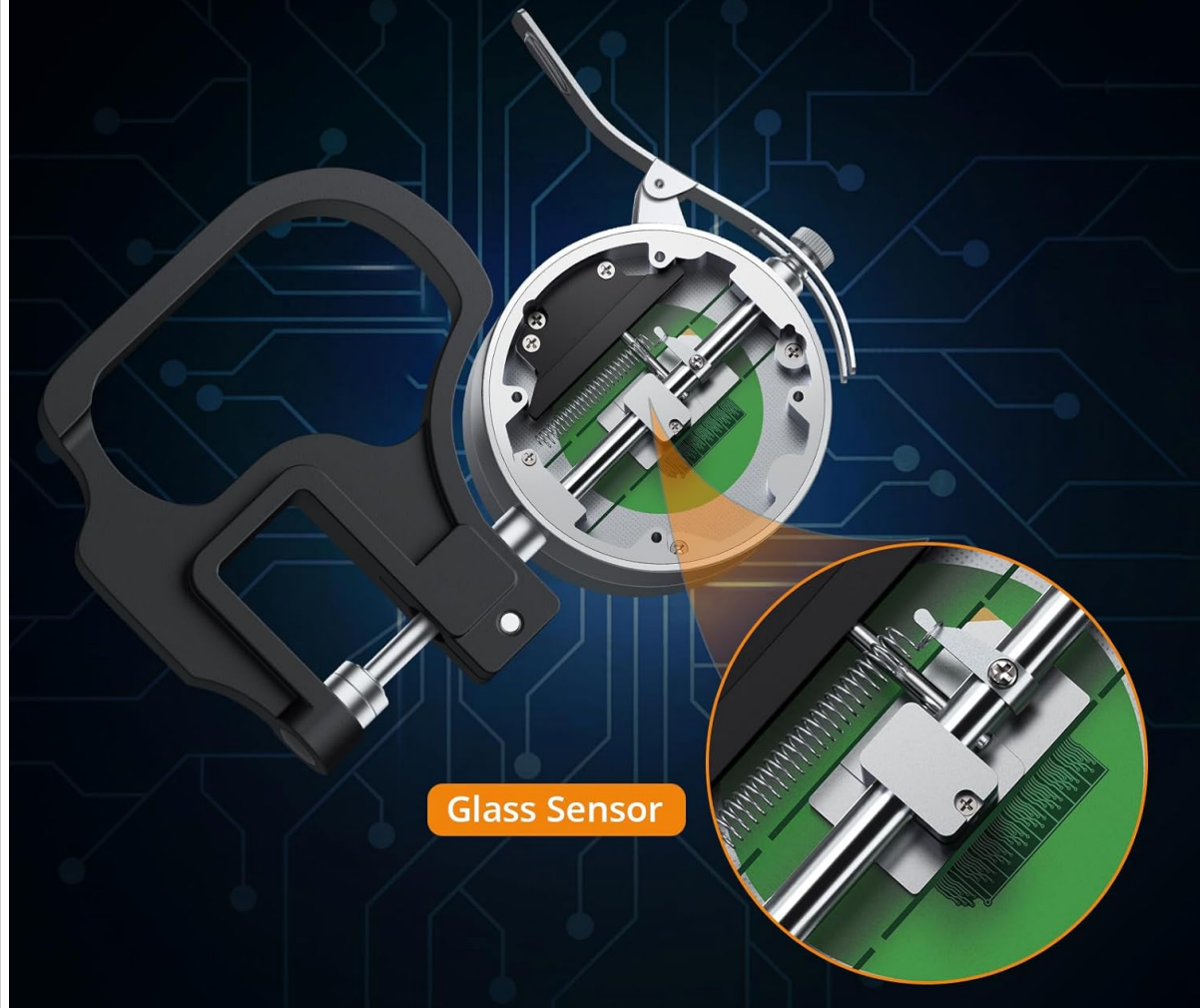


Figure 9.1: Contents of the product packaging, including the digital thickness gauge, its protective case, and the instruction manual.

10. WARRANTY AND SUPPORT

Neoteck products are designed for quality and reliability. For warranty information, technical support, or customer service inquiries, please refer to the contact information provided on the official Neoteck website or your purchase documentation. You can also visit the [Neoteck Store on Amazon](#) for additional resources.