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› ALLmeter Digital Dial Indicator (Model ALL003) User Manual

ALLmeter ALL003

ALLmeter Digital Dial Indicator User Manual

Model: ALL003

Brand: ALLmeter

1. INTRODUCTION

This manual provides detailed instructions for the proper use, setup, maintenance, and troubleshooting of your ALLmeter Digital Dial Indicator. This precision instrument is designed for accurate linear distance measurements in various mechanical, industrial, and laboratory applications. Please read this manual thoroughly before operating the device to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

The ALLmeter Digital Dial Indicator is a high-precision measuring tool featuring a large LCD display for easy readability and switchable units (mm/inch). Its robust design and sensitive sensor ensure reliable measurements.

Key Features:

- High-resolution measurement: 0.01mm (0.0005")
- Wide measuring range: 0-25.4mm (0-1 inch)
- Large, clear LCD display with 3 digits
- Switchable units: millimeters (mm) and inches (inch)
- Zero-setting function for convenient recalibration at any point
- Automatic power-off after 5 minutes of inactivity to conserve battery
- Durable aluminum alloy body
- Removable and replaceable M2.5 carbide probe

Components:

Familiarize yourself with the main components of your digital dial indicator:

Storage Case & Batteries Included



Image: Detailed view of the ALLmeter Digital Dial Indicator. This image highlights the LCD display, the 'inch/mm' button, 'OFF/ON' button, 'ZERO' button, the LR44 battery compartment, and the rear cover with a 6.5mm hole diameter.

- **LCD Display:** Shows measurement readings.
- **Inch/mm Button:** Toggles between millimeter and inch units.
- **OFF/ON Button:** Powers the device on or off.
- **ZERO Button:** Resets the display to zero at any position.
- **Probe:** The measuring tip that contacts the surface. Features M2.5 screw thread.
- **Holding Point for Clamp:** Located on the stem for mounting the indicator.
- **Rear Cover:** Protects the internal components and provides a mounting point.
- **Battery Compartment:** Houses the LR44 battery.

3. SETUP

3.1 Battery Installation

The digital dial indicator uses an LR44 button cell battery. Two batteries are typically included for extended use.

1. Locate the battery compartment on the back of the indicator (refer to the 'Components' section).
2. Carefully open the battery cover.
3. Insert the LR44 battery with the positive (+) side facing upwards.
4. Close the battery cover securely.

Widely used

Professional Tool for Mechanical and Industrial Measuring

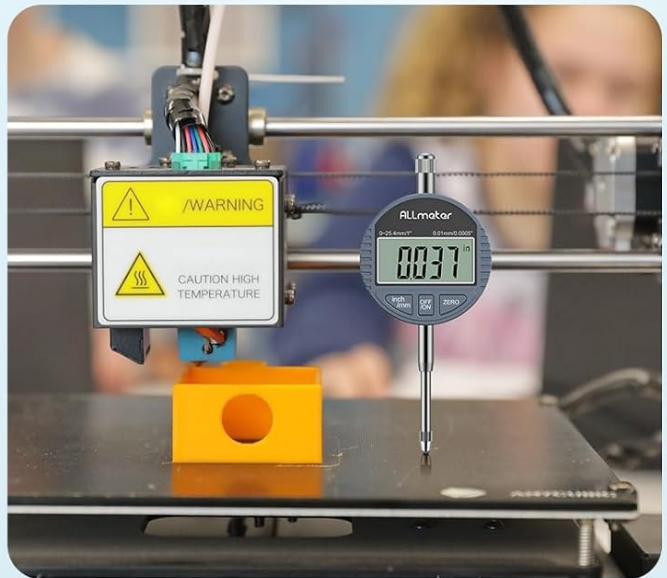


Image: The ALLmeter Digital Dial Indicator, along with two LR44 batteries and a protective storage case. This illustrates the included accessories for convenience and protection.

3.2 Mounting the Indicator

The indicator can be mounted using the holding point on its stem or the rear cover's hole (6.5mm diameter) to a suitable stand or fixture.

1. Choose a stable and rigid mounting point for your application.
2. Securely attach the indicator using a clamp on the stem or by fastening the rear cover to a compatible fixture. Ensure the indicator is firmly held to prevent movement during measurement.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- To turn on the indicator, press the **OFF/ON** button.
- To turn off the indicator, press and hold the **OFF/ON** button for a few seconds. The device will also automatically shut down after 5 minutes of inactivity.

4.2 Unit Conversion (mm/inch)

You can switch between millimeter (mm) and inch (in) units at any time during operation.

- Press the **inch/mm** button to toggle between the two measurement units. The selected unit will be displayed on the LCD.

Detail display of Digital Dial Indicator



Image: The ALLmeter Digital Dial Indicator displaying measurements in both millimeters (0.95 mm) and inches (0.037 in). This demonstrates the unit conversion feature and the device's resolution and measuring range.

4.3 Zero Setting

The zero-setting function allows you to set a reference point for your measurements.

- Position the probe at your desired reference point.
- Press the **ZERO** button. The display will reset to 0.00, and subsequent movements will be measured relative to this point.

4.4 Taking Measurements

1. Ensure the indicator is securely mounted and powered on.
2. Select your desired unit (mm or inch).
3. Set the zero point as needed for your measurement.
4. Carefully bring the probe into contact with the object to be measured. The display will show the linear displacement.
5. Read the measurement directly from the LCD display.

LCD screen, Easy to read



Image: The ALLmeter Digital Dial Indicator in various professional and industrial settings. This collage demonstrates its versatility for measuring on a table saw, a lathe, wood pieces, and a 3D printer, highlighting its wide range of applications.

5. MAINTENANCE

5.1 Cleaning

- Wipe the indicator with a soft, dry cloth.
- Do not use solvents or abrasive cleaners, as these can damage the display or finish.
- Keep the probe tip clean and free from debris for accurate readings.

5.2 Battery Replacement

When the display becomes dim or erratic, it's time to replace the battery.

1. Follow the steps in Section 3.1 for battery installation.
2. Dispose of old batteries responsibly according to local regulations.

5.3 Storage

When not in use, store the digital dial indicator in its protective case in a dry, clean environment, away from direct sunlight and extreme temperatures.

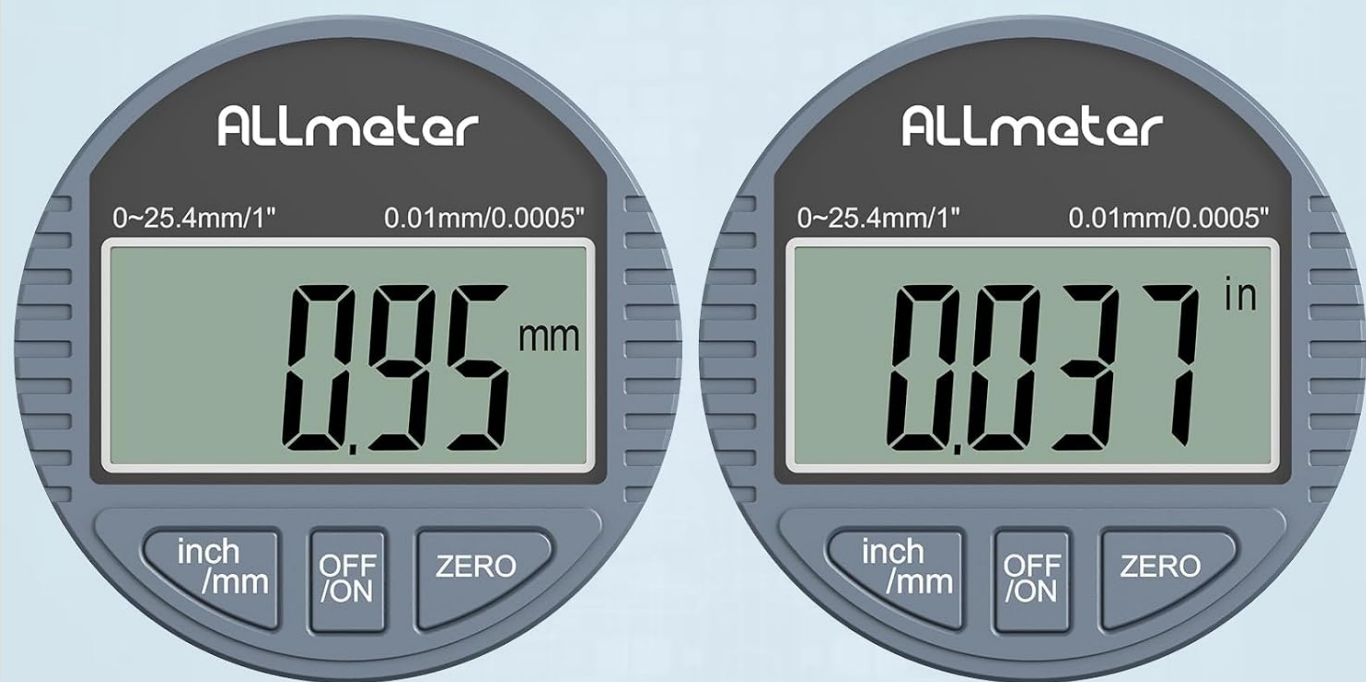
6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim	Low or dead battery; Incorrect battery installation	Replace battery (LR44); Ensure battery is inserted correctly with positive (+) side up.
Inaccurate readings	Dirty probe tip; Loose mounting; Environmental factors (temperature changes)	Clean probe tip; Ensure indicator is securely mounted; Allow indicator to acclimate to ambient temperature.
Buttons unresponsive	Battery issue; Internal malfunction	Replace battery; If problem persists, contact customer support.
Auto-off too soon/not working	Normal operation (5 min auto-off); Internal malfunction	The 5-minute auto-off is a feature. If it turns off immediately or never, contact support.

7. SPECIFICATIONS

Switchable between mm and inch

Units Conversion and Convenient to Read



Resolution:
0.01 mm (0.0005 inch)

Measuring Range:
0 ~ 25.4 mm (0 ~ 1 inch)

Image: A detailed diagram of the ALLmeter Digital Dial Indicator, illustrating its dimensions in both millimeters and inches, and labeling key components such as the LCD display, on/off switch, in/mm switch, zero-setting, holding point for clamp, spring-loaded probe, and M2.5 screw thread type.

Feature	Specification
Measuring Range	0-25.4 mm (0-1 inch)
Resolution	0.01 mm (0.0005 inch)
Display	Large LCD with 3 digits
Units	mm / inch switchable
Power Source	LR44 Button Cell Battery (2 included)
Automatic Shut-off	After 5 minutes of no operation

Feature	Specification
Probe Thread Type	M2.5 (removable and replaceable carbide probe)
Body Material	Aluminum Alloy
Model Number	ALL003
Manufacturer	ALLmeter

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact the retailer where the product was acquired. Keep your purchase receipt as proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question