

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [ALLmeter](#) /

› [ALLmeter Digital Dial Indicator with Magnetic Base \(Model ALL090FBA\) Instruction Manual](#)

## ALLmeter ALL090FBA

# ALLmeter Digital Dial Indicator with Magnetic Base (Model ALL090FBA) Instruction Manual

Model: ALL090FBA

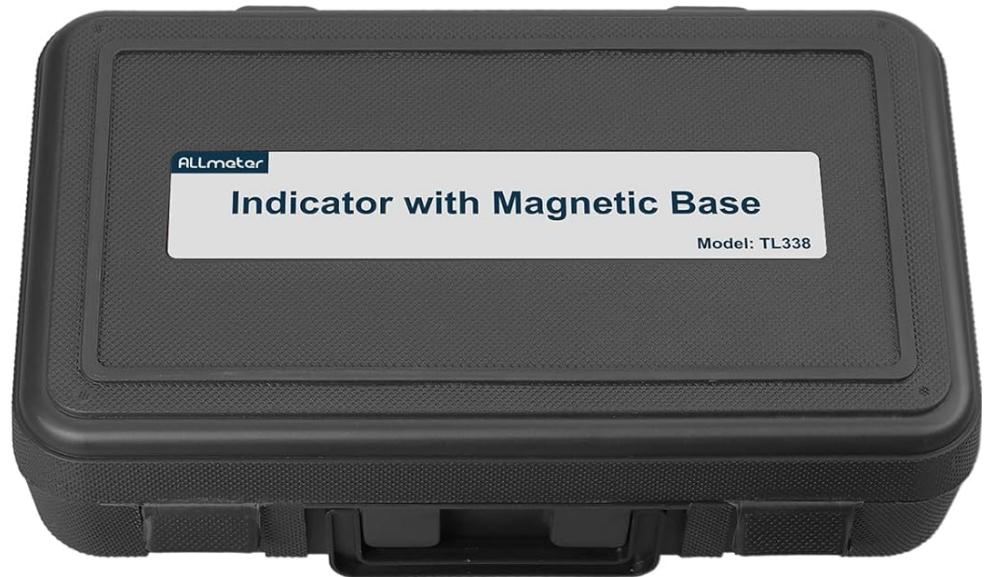
## INTRODUCTION

This manual provides detailed instructions for the proper use, setup, and maintenance of your ALLmeter Digital Dial Indicator with Magnetic Base. Designed for high-precision measurements, this tool is suitable for various applications in machine shops, automotive repair, and industrial settings. Please read this manual thoroughly before operating the device to ensure accurate results and safe handling.

## WHAT'S IN THE Box

Upon opening the package, verify that all the following components are present:

- Digital Dial Indicator
- Magnetic Base with Flexible Arm
- 1.5V Battery
- Portable Storage Box
- Instruction Manual (this document)



#### Flexible Arm Magnetic Base with Digital Indicator Instructions

##### Warranty

Thanks for using a product. All products come with an 18-month warranty from the date of purchase. If you need any support, please contact us.

##### 1. Installation Details



##### 2. Installation Steps



Image: All components included in the ALLmeter Digital Dial Indicator set, neatly arranged for inspection.

## PRODUCT FEATURES

- High Precision:** Offers 0.01mm (0.0005") resolution and a 0-1 inch/25.4mm measuring range for accurate results.
- Flexible Positioning:** Features a 360° adjustable magnetic base with 176lbs (80kg) tensile force for secure attachment and versatile positioning.
- Robust & Easy Use:** Constructed with an aluminum alloy body, includes an auto-off function, and supports unit conversion between inches and millimeters.
- Universal Compatibility:** Designed to fit all 4-14mm dial indicators, making it suitable for various machinery, including lathes, presses, and CNC machines.
- Complete Kit:** Comes with a battery, portable box, and this manual for immediate use.

# ALLmeter

## Magnetic Base Dial Indicator Set with 13.5" Flexible Arm

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

High Resolution up to 0.01 mm (0.0005")



High Precision



Easy-to-read



Sturdy Construction



Adjustable & Flexible



Image: Overview of the ALLmeter Digital Dial Indicator and its key features.

## SETUP AND INSTALLATION

Follow these steps to set up your digital dial indicator and magnetic base:

- Attach Flexible Arm to Magnetic Base:** Securely screw the flexible arm into the magnetic base. Ensure it is tightened to prevent movement during use.
- Position Magnetic Base:** Place the magnetic base on a clean, flat ferrous surface. Rotate the ON/OFF switch on the base to the "ON" position to activate the magnet and secure the base.
- Install Digital Dial Indicator:** Insert the stem of the digital dial indicator into the clamp at the end of the flexible arm. Tighten the adjusting screw to firmly hold the indicator in place.
- Adjust Arm Position:** Use the rotary lever on the flexible arm to adjust its angle and position. The 360° rotating twist allows for precise alignment of the indicator's probe with the measurement point.

# Flexible Arm

Arm dimension of 13.5 inches (340mm)



Image: Components of the flexible arm and magnetic base, illustrating adjustment points.

# Easy to Install and Get Accurate Reading

Step-by-Step Guide for Precise Measurements



## Step 1

### Secure Positioning

Position the base on the work surface securely to ensure stability during measurement.



## Step 2

### Indicator Installation

Install the indicator and adjust the arm to align perfectly with the measurement point.



## Step 3

### Fine-Tuning

Adjust the arm to fix it in place, ensuring that the indicator is precisely positioned for accurate readings.



## Step 4

### Measurement Initiation

Start measuring by gently pressing the button, allowing the digital display to show precise measurements instantly.

Image: Visual guide for the installation process, from securing the base to preparing for measurement.



Video: Demonstrates the assembly and initial setup of the ALLmeter Digital Dial Indicator with Magnetic Flex Arm.

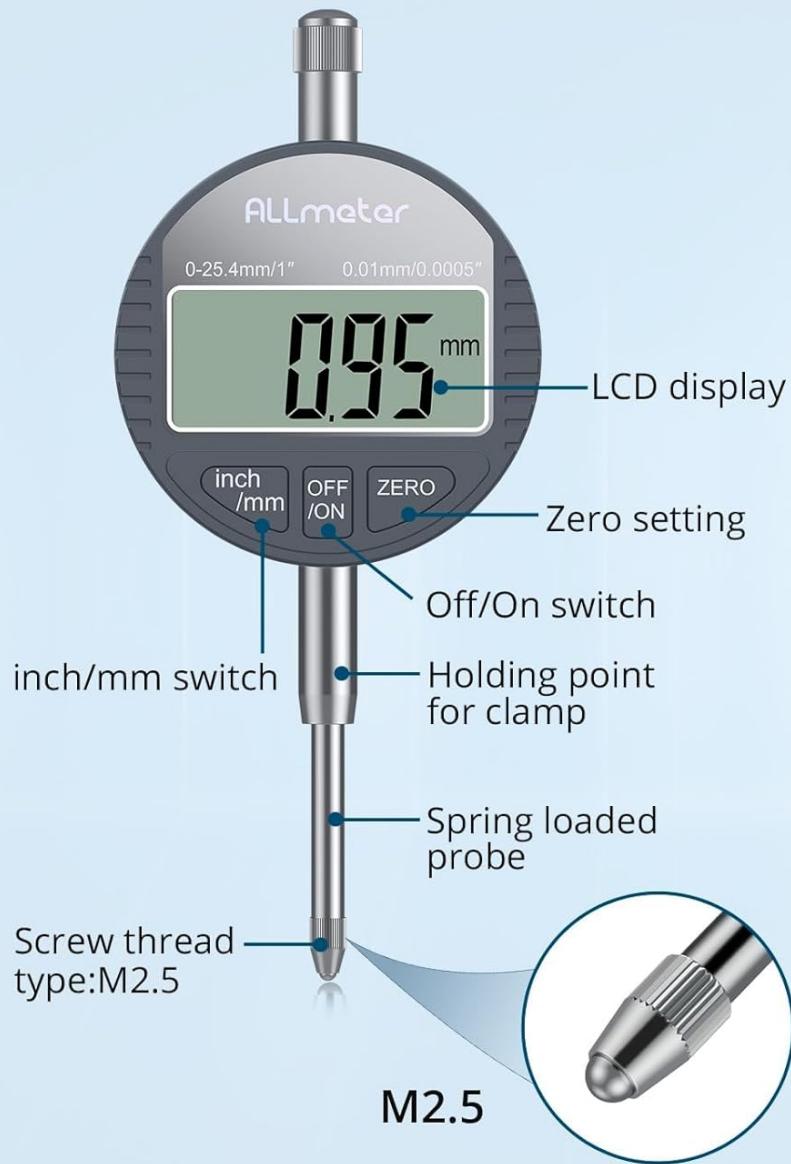
## OPERATING INSTRUCTIONS

Once the indicator is installed, follow these steps for accurate measurements:

- Power On:** Press the "ON/OFF" button to turn on the digital dial indicator.
- Select Units:** Press the "inch/mm" button to switch between imperial (inches) and metric (millimeters) units as needed.
- Zero Setting:** Position the probe against the reference surface or the starting point of your measurement. Press the "ZERO" button to set the current position as zero.
- Take Measurement:** Gently move the object or the indicator to measure the desired dimension. The digital display will show the displacement from the zero point.

5. **Power Off:** Press the "ON/OFF" button again to turn off the indicator when not in use. The device also features an auto-off function to conserve battery.

## LCD Display & Switchable



**Resolution:**  
0.01 mm (0.0005 inch)



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

Image: Detailed view of the digital dial indicator's interface and controls.

# Flexible Arm Magnetic Base Dial Indicator Set

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

Resolution: 0.01 mm (0.0005 inch)



Image: The dial indicator set measuring a brake rotor, illustrating a practical application.

## MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your ALLmeter Digital Dial Indicator:

- **Cleaning:** Wipe the indicator and magnetic base with a soft, dry cloth after each use. Avoid using solvents or abrasive cleaners.
- **Storage:** Store the device in its portable storage box in a dry, dust-free environment when not in use.
- **Battery Replacement:** If the display becomes dim or unresponsive, replace the 1.5V battery. Refer to the indicator's battery compartment for specific instructions.
- **Avoid Impact:** Protect the indicator from drops or impacts, as this can affect its precision.
- **Magnetic Base Care:** Keep the magnetic surfaces clean and free of debris to ensure maximum holding force.

## TROUBLESHOOTING

If you encounter issues with your digital dial indicator, consider the following:

- **Display Not Working:**

- Check if the battery is correctly installed.
- Replace the battery if it is low or depleted.
- Ensure the ON/OFF button has been pressed.

- **Inaccurate Readings:**

- Ensure the magnetic base is securely attached to a stable, flat ferrous surface.
- Verify that the indicator is firmly clamped in the flexible arm and not loose.
- Clean the probe tip and the measurement surface to remove any debris.
- Perform a zero-setting calibration before taking measurements.

- **Magnetic Base Not Holding:**

- Ensure the ON/OFF switch on the magnetic base is in the "ON" position.
- Clean the magnetic surfaces and the mounting surface.
- The magnetic base requires a ferrous material surface at least 30mm thick for maximum pull force.

## SPECIFICATIONS

Feature	Specification
Measuring Range	0-1 inch / 0-25.4 mm
Resolution	0.01 mm (0.0005 inch)
Magnetic Base Tensile Force	176 lbs (80 kg)
Flexible Arm Length	13.5 inches (340 mm)
Indicator Compatibility	4-14 mm dial indicators
Power Source	1.5V Battery
Item Weight	3.53 pounds
Package Dimensions	12.44 x 7.64 x 3.5 inches
Model Number	ALL090FBA

# Portable storage case included

keeps tools safe and easy to carry

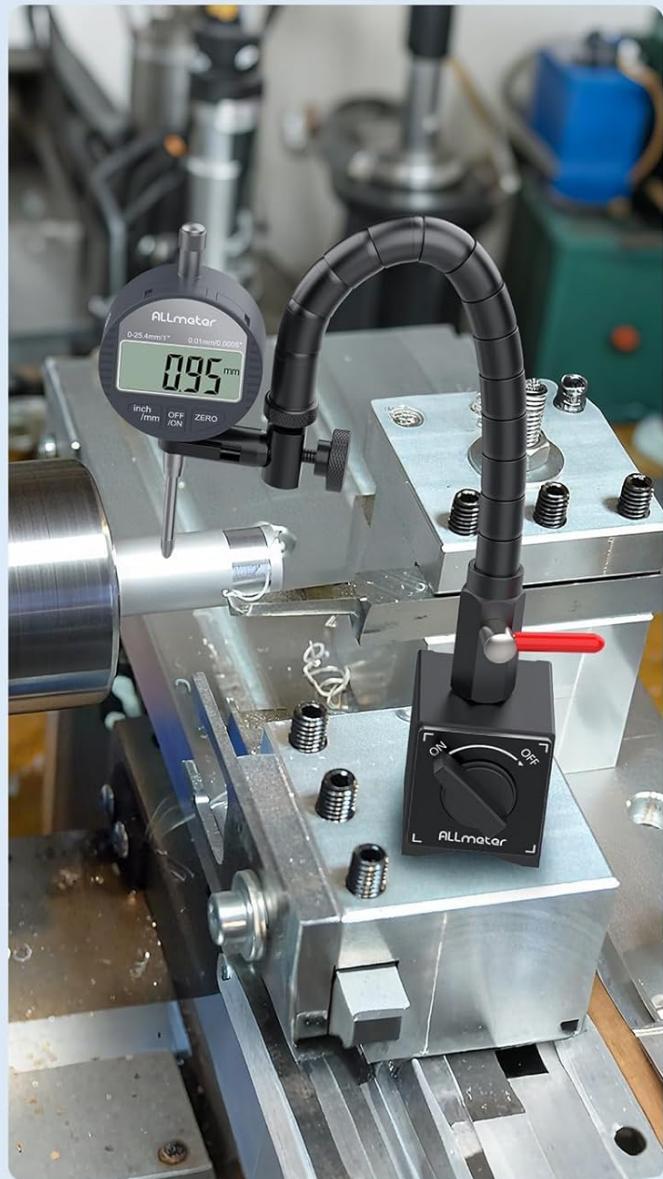


Image: Examples of the dial indicator set being used in different precision measurement scenarios.

## **WARRANTY AND SUPPORT**

ALLmeter products come with a 15-month warranty from the date of purchase. If you require any support, have questions, or need to claim warranty service, please contact ALLmeter customer service through the retailer where the product was purchased or visit the official ALLmeter website for contact information.

ALLmeter is committed to providing precise, accurate, and stable measuring tools. We strive for unparalleled quality in each product to ensure customer satisfaction.

