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ALLmeter ALL066

ALLmeter USB Rechargeable Digital Angle Finder with Laser (Model ALL066)

Instruction Manual

1. INTRODUCTION

The ALLmeter Digital Angle Finder with Laser, Model ALL066, is a high-precision inclinometer designed for accurate angle measurements in various applications, including woodworking, construction, and general DIY tasks. This device combines advanced digital measurement technology with practical features to enhance efficiency and accuracy.

Key Features:

- **High-Precision Measurement:** Achieves 0.05° resolution and ±0.2° accuracy for reliable readings.
- **4-Sided Magnetic Base:** Equipped with strong rare-earth magnets on all four sides for secure attachment to metal surfaces, enabling hands-free operation.
- **Dual Laser Lines:** Features two Class 2 certified laser lines (less than 1mW power) for extended projection and precise alignment.
- **USB-C Rechargeable:** Integrated 340mAh rechargeable battery provides up to 7 hours of operation and charges fully in approximately 2.5 hours via Type-C port.
- **Backlit Reversible Display:** High-contrast black-on-white display ensures clear visibility in various lighting conditions. The display automatically rotates for easy reading from any orientation.
- **Additional Functions:** Includes data hold, degrees/percentage conversion, zeroing for relative measurements, and automatic shut-off.
- **Durable Design:** IP54 rated for dust and light rain resistance.



Figure 1: ALLmeter Digital Angle Finder and included accessories.

2. PACKAGE CONTENTS

- ALLmeter Digital Angle Finder (Model ALL066)
- USB-C Charging Cable
- Carry Bag
- User Manual



Figure 2: Complete package contents.

3. SETUP

3.1 Charging the Device

Before initial use, fully charge the Digital Angle Finder. Connect the provided USB-C cable to the charging port on the device and to a standard USB power source (e.g., computer, wall adapter). The battery indicator on the display will show charging status. A full charge takes approximately 2.5 hours.

TYPE-C Charging

340mAH rechargeable lithium battery.

With low battery alert & Auto power off function.



Figure 3: Connecting the USB-C charging cable.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Press the **ON/OFF** button to turn the device on. The backlit display will illuminate. To turn off the device, press and hold the **ON/OFF** button. The device also features an automatic shut-off function after 3 minutes of inactivity to conserve battery life.

4.2 Basic Angle Measurement

Place the base of the Digital Angle Finder firmly on the surface you wish to measure. The display will show the angle relative to gravity. The display automatically rotates for easy reading when the device is inverted.

Easy-to-read

High-Contrast Reverse Display for Low-Light Visibility



Figure 4: Clear and readable backlit display.

4.3 Zeroing for Relative Measurement

To measure a relative angle, place the device on your reference surface and press the **ZERO** button. The display will reset to 0.00°, allowing you to measure the angle of subsequent surfaces relative to your chosen reference.

4.4 Unit Conversion (Degrees / Percentage)

Press the **Tilt%** button to switch between angle measurement in degrees (°) and percentage (%).



Figure 5: Switching between degrees and percentage measurement.

4.5 Data Hold Function

To freeze the current reading on the display, briefly press the **HOLD** button. Press it again to release the hold and resume live measurement.



HOLD Function
Keep the screen read

Two measurement units



① 1° degrees

② % Percentage

Figure 6: Using the HOLD function to save a reading.

4.6 Using the Laser Lines

The device features dual laser lines for extended alignment. To activate the laser, press the **ON/OFF** button multiple times:

- Press once: Activates the right laser.
- Press twice: Activates the left laser.
- Press three times: Activates both lasers (right + left).
- Press four times: Disables all lasers.

The laser lines are useful for aligning objects such as shelves, tiles, or long boards over a distance.

Dual Lasers, Double Precision

Twice the Accuracy for Perfect Alignment!



Figure 7: Dual laser lines in use for precise alignment.

Your browser does not support the video tag.

Video 1: Demonstration of the ALLmeter Digital Angle Finder's magnetic base and laser functions.

4.7 Magnetic Base

The ALLmeter Digital Angle Finder features strong magnets on all four sides, allowing it to securely attach to various metal surfaces. This enables hands-free operation, which is particularly useful when working on saw blades, metal beams, or pipes.

4-Side Magnetic Power

Attach, Level, Go!



Figure 8: Magnetic base attachment to a metal frame.

5. MAINTENANCE

5.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the charging port cover is securely closed to maintain IP54 rating.

5.2 Water and Dust Resistance

The device is IP54 rated, meaning it is protected against dust ingress and splashing water from any direction. It is suitable for use in environments with light rain or dust, but it should not be submerged in water.

Waterproof IP54

The IP54 dust and waterproof rating ensures uninterrupted operation even in light rain.



Figure 9: IP54 rating for dust and water resistance.

6. TROUBLESHOOTING

6.1 "ERR" Display

If the display shows "ERR", it indicates that the angle of the measuring face is inclined by more than 30 degrees from the back or front. Adjust the device's position to be within the operational range.

VA LCD screen

High-contrast inverted display for better visibility in low light.



Figure 10: "ERR" message indicating excessive tilt.

6.2 Device Not Powering On

- Ensure the battery is charged. Connect the device to a power source using the USB-C cable.
- Press and hold the **ON/OFF** button for a few seconds.

6.3 Inaccurate Readings

- Ensure the measurement surface is clean and free of debris.
- Perform a zero calibration on a known level surface.
- Avoid strong magnetic fields that could interfere with the device's sensors.

7. SPECIFICATIONS

Feature	Specification
Model Number	ALL066
Measurement Range	0-360°
Resolution	0.05°
Accuracy	±0.2°
Laser Type	Class 2, <1mW
Battery Type	340mAh Lithium Ion (rechargeable, included)
Charging Port	USB-C
Battery Life	Up to 7 hours
Charging Time	Approx. 2.5 hours
Automatic Shut-off	3 minutes of inactivity
Material	ABS + Aluminum Alloy
Dimensions	2.6 x 1.26 x 2.6 inches

Weight	5.6 ounces
IP Rating	IP54

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The ALLmeter Digital Angle Finder (Model ALL066) comes with an 18-month manufacturer's warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

8.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your ALLmeter Digital Angle Finder, please contact ALLmeter customer support through the retailer's platform or the official ALLmeter website. Please have your purchase receipt and product model number (ALL066) available when contacting support.