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PROSTER Level Box

PROSTER Digital Angle Finder (Level Box Orange) User Manual

Model: Level Box Orange | Brand: PROSTER

1. INTRODUCTION

Thank you for choosing the PROSTER Digital Angle Finder. This professional inclinometer and protractor gauge is designed for precise angle measurements in various applications, including woodworking, construction, and home improvement projects. Its strong magnetic base, clear LCD VA display, and dual measurement modes ensure accuracy and ease of use.

Please read this manual thoroughly before operating the device to ensure proper usage and to maximize its lifespan.

2. SAFETY INFORMATION

- Keep the device away from water or other liquids. Do not immerse.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight for prolonged periods, as this may affect accuracy.
- Handle with care to prevent drops or impacts that could damage internal components.
- Ensure batteries are inserted correctly according to polarity markings. Remove batteries if the device will not be used for an extended period.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

Key Features:

- **Professional Digital Inclinometer:** Accurately measures angles from 0-90° across 4 surfaces. Error Range: $\pm 0.1-0.2^\circ$, Resolution: 0.05° .
- **2 Measurement Modes:** Absolute/Relative Zero Function for seamless comparative measurements.
- **Dual Units:** Displays measurements in degrees ($^\circ$) and percentage (%).
- **Strong Magnetic Base:** Adsorbs firmly onto iron surfaces for stability and improved safety.
- **Clear LCD VA Display:** Easy-to-read readings from any angle, even in varying light conditions, with a reading flip function.
- **Hold Function:** Captures and freezes measurements for convenient recording.
- **Low Battery Indication:** Alerts you to replace batteries in time.
- **Automatic Shut-off:** Saves battery life after 3 minutes of inactivity.

Included Components:

- 1 x Digital Level Box
- 1 x Screwdriver
- 2 x AAA battery

Product Diagram:



Figure 3.1: Detailed view of the Digital Angle Finder with labeled components.

4. SETUP

Battery Installation:

1. Locate the battery cover on the back of the device.
2. Use the provided screwdriver to open the battery compartment.
3. Insert 2 AAA batteries, ensuring correct polarity (+/-).
4. Close the battery cover and secure it with the screwdriver.

The device is now ready for use.

5. OPERATING INSTRUCTIONS

Power On/Off:

- **To Turn On:** Short press the **ON/OFF** button. The LCD display will light up.
- **To Turn Off:** Press and hold the **ON/OFF** button for approximately 3 seconds. The device will also automatically shut off after 3 minutes of inactivity to conserve battery.

Measurement Modes (Absolute/Relative):

The device offers two measurement modes:

- **Absolute Measurement (ABS):** This mode measures the angle relative to a true horizontal plane (0°). The 'LEVEL' indicator will be displayed.
- **Relative Measurement (ZERO):** This mode allows you to set any surface as a temporary 0° reference point.

To Switch Modes: Short press the **ZERO** button. The 'LEVEL' indicator will appear for absolute mode and disappear for relative mode.

Unit Conversion:

The device can display angles in degrees (°) or percentage (%).

- **To Switch Units:** Short press the **TILT%** button to toggle between degrees and percentage.

Hold Function:

To freeze the current measurement on the display:

- Short press the **HOLD** button. The 'HOLD' indicator will appear on the screen.
- To release the hold and resume live measurement, short press the **HOLD** button again.

Magnetic Base Usage:

The strong magnetic base allows the device to attach securely to metallic surfaces, providing hands-free operation and stability during measurements.

Black and white LCD VA display for clear readings in darkness or bright light



Attention:

1. Tilt the angle of front and rear more than 30 °, will display Err.
2. Please take out the battery when not in use to avoid battery corrosion of the battery compartment and internal parts of the product.

Figure 5.1: Using the strong magnetic base for stable measurements.

Reading Flip Function:

The display automatically rotates to ensure upright readings, regardless of the device's orientation.

All four sides are datum plane

Inverted digits automatically flip for easy reading

Measuring Range: $4 \times 90^\circ$

Resolution: 0.05 degree

Accuracy: ± 0.1 degrees at 0 and 90 degrees

± 0.2 degrees the remainder

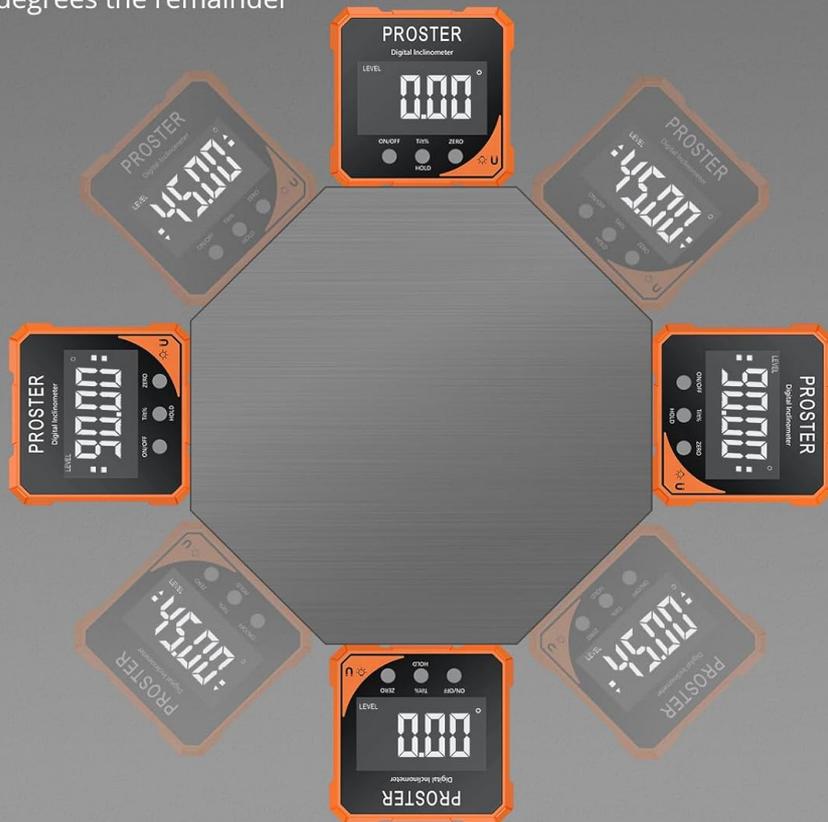


Figure 5.2: The display automatically flips for convenient reading.

Operational Examples:



Angle display



Percentage display

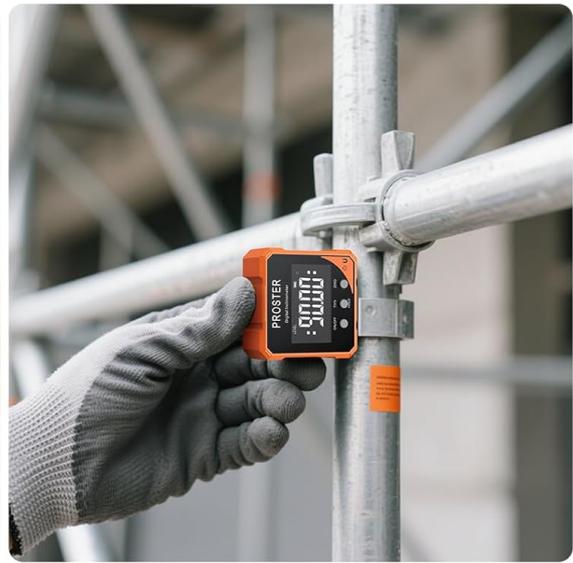


Strong Magnetic Base



False measurements

Angle display in degrees.



Angle display in percentage.

PROSTER
DIGITAL INCLINOMETER WITH MAGNETIC BASE

 High Accuracy	 LCD Large Display	 Zero Setting
 Magnetic Base	 Data Hold	 Long Working Time

Measuring an angle on a wooden surface.



Measuring a saw blade angle.

Video Demonstrations:

XUNTOP USB Charging Digital Level Box Angle Finder (General Operation)

This video demonstrates the general operation and display features of a similar digital angle finder, including how it measures angles and its magnetic capabilities.

BINTA Small Digital Angle Finder Gauge (General Use)

This video illustrates various applications and the magnetic functionality of a compact digital angle finder.

Lytool Digital Angle Gauge (General Use)

This video showcases the practical use of a digital angle gauge for different measurement tasks.

Portable Digital Angle Finder for Precision Measurement (General Use)

This video demonstrates the portability and precision measurement capabilities of a digital angle finder.

6. CALIBRATION

For optimal accuracy, it is recommended to calibrate the device periodically or if you suspect inaccurate readings.

Calibration Procedure:

1. Turn off the device.
2. Press and hold down the **ZERO** button.
3. While continuing to hold the **ZERO** button, press the **ON/OFF** button to power on the device.
4. "CAL1" will appear on the screen.
5. Place the device on a stable, flat, and level surface.
6. Follow the on-screen prompts (CAL1, CAL2, etc.) and rotate the device 180 degrees as instructed, ensuring it remains on a stable surface.
7. Once calibration is complete, the display will show 0.00°.

Important Note: During calibration, the surface should be stable and level. The inclination of the surface should not exceed 3 degrees, and the position of each calibration step should be consistent.

Calibration Video:

Digital Magnetic Angle Finder Calibration

This video provides a visual guide on how to calibrate a digital magnetic angle finder for accurate measurements.

7. MAINTENANCE

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Store the device in a dry place, away from dust and direct sunlight.
- Remove batteries if the device is not used for an extended period to prevent leakage and damage.

8. TROUBLESHOOTING

- **Device not functioning properly:** Check the battery level and replace if necessary. Try resetting the device by removing and reinserting the batteries.
- **Inaccurate readings:** Recalibrate the device following the steps in Section 6. Ensure the device is placed on a stable, level surface during measurement. Be aware that temperature fluctuations, humidity, or extreme conditions can affect accuracy over time.
- **"Err" displayed:** This typically indicates that the device is tilted forward or backward more than 30 degrees, exceeding its optimal measurement range for certain functions. Adjust the device's position.

9. SPECIFICATIONS

Attribute	Detail
Brand	PROSTER
Model	Level Box Orange
Material	Aluminum, Plastic
Color	Orange
Operation Mode	Automatic
Item Weight	0.1 Kilograms

Measurement Range	0-90° (across 4 surfaces)
Resolution	0.05°
Accuracy	±0.1-0.2°
Power Source	2 x AAA batteries
Auto Shut-off	3 minutes of inactivity

10. WARRANTY AND SUPPORT

PROSTER products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your purchase or contact PROSTER customer support.

If you encounter any issues or have questions regarding your Digital Angle Finder, please contact our customer support team for assistance. Contact details can typically be found on our official website or on the product packaging.