

Digital Inclinometer

Sakerplus Magnetic Digital Inclinometer: High-Precision Digital Angle Ruler User Manual

1. INTRODUCTION

Thank you for choosing the Sakerplus Magnetic Digital Inclinometer. This high-precision digital angle ruler is designed for accurate angle measurements in various applications, including woodworking, construction, and auto repair. Its compact design, magnetic base, and user-friendly interface ensure efficient and reliable performance.



Figure 1: Sakerplus Magnetic Digital Inclinator with key dimensions (5.7cm/2.24in x 5.7cm/2.24in x 2.5cm/0.98in).

2. PRODUCT OVERVIEW AND FEATURES

The Sakerplus Magnetic Digital Inclinator combines multiple functionalities into one compact device, offering advanced precision and ease of use.

Key Features:

- **Effortless Operation:** User-friendly interface requires no complex setup.
- **Precision Auto Calibration:** Advanced system minimizes human error for exceptional accuracy.
- **Energy-Efficient Design:** Low power consumption extends battery life for prolonged use.
- **Compact & Portable:** Sleek, lightweight design for easy transport and use anywhere.
- **Multi-purpose Functionality:** Acts as a protractor, inclinometer, and level.
- **Measurement Modes:** Supports both absolute and relative angle measurements.
- **Unit Conversion:** Easily switch between angle and slope units.
- **Data Locking:** Hold function to retain measurements.

- **Magnetic Base:** Securely attaches to metal surfaces for hands-free operation.

Function Description



Figure 2: Overview of the inclinometer's buttons and display indicators, including ON/OFF/REF, UNIT, HOLD, Low Battery, and Measuring Surface.

3. SETUP

Battery Installation/Charging:

The device is battery-powered. Ensure the battery is charged before first use. If the device uses a rechargeable battery, connect the provided USB cable to the charging port (usually located on the side or back) and a suitable USB power source.

Power On/Off:

Press the **ON/OFF/REF** button to power on the device. To power off, press and hold the **ON/OFF/REF** button.

4. OPERATING INSTRUCTIONS

Absolute and Relative Measurement Modes:

The inclinometer supports two measurement modes:

- **Absolute Mode (ABS):** Measures the angle relative to a true horizontal plane.
- **Relative Mode (REF):** Allows you to set any surface as a 0-degree reference point for subsequent measurements. Press the **ON/OFF/REF** button briefly to switch between absolute and relative modes, or to set a new relative zero.

2 Measurement Modes

Mode 1 Absolute angle Measurement



Mode 2 Relative angle Measurement



Figure 3: Illustration of Absolute Angle Measurement (Mode 1) and Relative Angle Measurement (Mode 2).

Unit Conversion:

Press the **UNIT** button to cycle through different measurement units, such as degrees ($^{\circ}$), percentage (%), mm/m, and in/ft.

Data Hold Function:

Press the **HOLD** button to freeze the current measurement on the display. Press it again to release the hold function.

Using the Magnetic Base:

The strong magnetic base allows the inclinometer to be securely attached to metal surfaces, providing hands-free operation for precise measurements. This is particularly useful for setting angles on saw blades or metal frameworks.

Laser Function (if applicable):

Some models may include a laser line projection feature for extended alignment. If present, activate the laser by pressing the dedicated laser button. The laser projects a line to assist with alignment over longer distances.

Video 1: Demonstrates the XUNTOP Digital Angle Finder's features, including absolute/relative measurement, magnetic attachment, unit conversion, and data hold function.

Video 2: Shows the BINTA 4-Side Magnetic Digital Angle Gauge in action, highlighting relative/absolute measurement, magnetic suction, unit switching, data lock, and dual lateral line laser.

Video 3: Features the eSynic Magnetic Digital Angle Finder with Laser, demonstrating laser activation, magnetic attraction, zero function, unit switching, data hold, and auto-rotating display.

5. MAINTENANCE

- Keep the device clean and dry. Wipe with a soft, damp cloth.
- Avoid exposing the device to extreme temperatures or direct sunlight.
- Store in a protective case when not in use to prevent damage.
- Do not attempt to disassemble the device, as this will void the warranty.

6. TROUBLESHOOTING

Device Not Powering On:

- Ensure the battery is charged.
- Check for any visible damage to the device or charging cable.

Inaccurate Readings:

- Perform auto-calibration as described in the operating instructions.
- Ensure the measuring surface is clean and free of debris.
- Verify the device is placed firmly and flat on the surface being measured.

Displaying 'ERR':

- This typically indicates that the device has been tilted beyond its operational range (e.g., >30 degrees forward or backward from its initial position in some modes). Return the device to a stable position within its measurement range.

7. SPECIFICATIONS

Feature	Detail
Brand	Generic
Material	Plastic
Style	Magnetic

Feature	Detail
Power Source	Battery Powered
Operation Mode	Automatic
Manufacturer	Waycin

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the product packaging or contact your retailer. Keep your purchase receipt for any warranty claims.