Prostormer B0B2LGYVSL

Prostormer 60cm Digital Bubble Level Inclinometer Instruction Manual

Model: B0B2LGYVSL

1. Product Overview

The Prostormer 60cm Digital Bubble Level Inclinometer is a versatile electronic tool designed for precise angle measurement. It combines the functions of an angle finder, protractor, and traditional bubble level into one device, offering a 360-degree measurement range with high accuracy. Its backlit LCD display ensures clear readings in various lighting conditions, and magnetic edges provide convenience for hands-free operation.

Figure 1: Prostormer Digital Level in use, demonstrating its application in construction or woodworking for precise angle measurement.

Key Features:

- **Versatile Functionality:** Acts as an angle finder, protractor, and level.
- **High Precision:** 0-360° measurement range with 0.1° precision for level and plumb, and ±0.2° accuracy for angles between 1-89°.
- **Backlit LCD Display:** Clear readings in dark environments with adjustable screen orientation.
- **Magnetic Edges:** Two strong magnetic edges for secure attachment to metal surfaces, enabling easy single-hand operation.
- **Durable Design:** Suitable for various applications including device installation, railway traffic, bridge construction, engineering, and home decoration.

2. Package Contents

Please check the package contents upon receipt to ensure all items are present and undamaged.

- Prostormer 60cm Digital Bubble Level Inclinometer
- Batteries (pre-installed or included separately)

- User Manual (this document)

3. Setup and Battery Installation

The device typically comes with batteries pre-installed or included. If batteries need to be installed or replaced, follow these steps:

1. Locate the battery compartment cover on the back or side of the digital level.
2. Use a small screwdriver or coin to open the battery compartment cover.
3. Insert the required batteries (e.g., AAA batteries) according to the polarity indicators (+/-) inside the compartment.
4. Close the battery compartment cover securely.

Figure 2: Rear view of the digital level, highlighting the battery compartment for installation or replacement.

4. Controls and Display

Familiarize yourself with the buttons and the LCD display for effective operation.

Figure 3: Detailed view of the LCD display and control buttons, indicating their respective functions.

Button Functions:

- **Power Button (On/Off):** Press to turn the device on or off.
- **Unit Button (°, %, mm/m):** Cycles through measurement units: degrees (°), percentage (%), and millimeters per meter (mm/m).
- **Reference Button:** Sets the current angle as a reference (0°) for relative measurements.
- **Calibrate Button:** Initiates the calibration process for accurate readings.
- **Hold Button:** Freezes the current reading on the display.
- **Buzzer/Backlight Button:** Toggles the backlight on/off and may control an audible alert.

5. Operation

5.1 Powering On/Off

Press the **Power Button** once to turn the device on. Press and hold the **Power Button** for a few seconds to turn it off.

5.2 Changing Measurement Units

After powering on, press the **Unit Button** repeatedly to cycle through the available measurement units: degrees (°), percentage (%), and millimeters per meter (mm/m). The selected unit will be displayed on the LCD screen.

5.3 Calibration

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

1. Place the digital level on a flat, stable surface.
2. Press the **Calibrate Button**. The display may show a calibration indicator.
3. Follow the on-screen prompts, which typically involve rotating the level 180 degrees and pressing the calibrate button again.
4. Once calibration is complete, the device will return to normal measurement mode.

5.4 Setting a Reference Angle

To measure relative angles from a specific surface:

1. Place the digital level on the desired reference surface.
2. Press the **Reference Button**. The display will show '0.0°' or 'REF', indicating that this angle is now the new zero point.
3. Move the level to the surface you wish to measure. The display will show the angle relative to your set reference.
4. To clear the reference, press the **Reference Button** again.

5.5 Using the Hold Function

Press the **Hold Button** to freeze the current measurement on the LCD display. This is useful when taking readings in difficult-to-view positions. Press the **Hold Button** again to release the reading and return to live measurement.

5.6 Backlight Control

Press the **Buzzer/Backlight Button** to turn the LCD backlight on or off, improving visibility in low-light conditions.

5.7 Using the Bubble Vials

In addition to the digital display, the inclinometer features traditional bubble vials for quick visual leveling. Ensure the bubble is centered between the lines for a perfectly level or plumb surface.

Figure 4: Close-up of the integrated bubble vial, used for traditional visual leveling.

6. Specifications

Measurement Range	0-360 degrees
Precision (Level/Plumb)	0.1 degrees
Accuracy (1-89 degrees)	±0.2 degrees
Operating Temperature	0-50 °C (32-122 °F)
Display	LCD with Blue Backlight
Length	60cm
Features	Magnetic Edges, Unit Conversion, Hold Function, Reference Angle, Calibration

7. Maintenance and Care

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the display or casing.
- **Storage:** Store the digital level in a dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries to prevent leakage.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts, which could affect its accuracy and functionality.

8. Troubleshooting

- **Device does not power on:** Check if the batteries are correctly installed and have sufficient charge.

Replace batteries if necessary.

- **Inaccurate readings:** Perform a calibration as described in Section 5.3. Ensure the surface you are measuring is stable and free from vibrations.
- **Display is dim or flickering:** Replace the batteries. If the issue persists, contact customer support.
- **Buttons are unresponsive:** Ensure the device is not in 'Hold' mode. If unresponsive, try removing and reinserting the batteries to reset the device.