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› [RISEPRO](#) /

› [RISEPRO DL135N 10-Inch Digital Torpedo Level and Protractor User Manual](#)

## RISEPRO DL135N

# RISEPRO DL135N 10-Inch Digital Torpedo Level and Protractor User Manual

Model: DL135N | Brand: RISEPRO

## 1. INTRODUCTION

Thank you for choosing the RISEPRO DL135N Digital Torpedo Level and Protractor. This precision instrument is designed for accurate angle and level measurements in various applications, from construction to DIY projects. This manual provides essential information for the safe and effective use of your device. Please read it thoroughly before operation and retain it for future reference.

### Key Features:

- Absolute and Relative Angle Measurement Modes
- Clear VA Display with Backlight
- Switchable Units: Degrees (°), Percent (%), mm/m, IN/FT
- Strong Magnetic V-Groove Base for secure attachment to curved or flat metal surfaces
- Hold Function to freeze readings
- Audible Buzzer at 0° and 90°
- Durable Aluminum Construction
- IP54 Protection against dust and splashing water

## 2. SAFETY INFORMATION

To ensure safe operation and prolong the life of your device, please observe the following safety precautions:

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping the device or subjecting it to strong impacts.
- Keep the device away from strong magnetic fields, except for its intended use with the magnetic base.

- Do not attempt to disassemble or modify the device. Repairs should only be performed by qualified personnel.
- Dispose of batteries according to local regulations.
- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.

### 3. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your RISEPRO DL135N digital level.



Figure 3.1: Front view of the RISEPRO DL135N digital level, showing the display, control buttons, and overall dimensions (25.5cm / 10 inches in length).

#### Components and Controls:

1. **ON/OFF Button:** Powers the device on or off.
2. **REF Button:** Activates/deactivates Relative Measurement Mode.
3. **HOLD Button:** Freezes the current display reading.
4. **MODE Button:** Cycles through measurement units (°, %, mm/m, IN/FT).
5. **CAL Button:** Used for calibration.
6. **Buzzer Button:** Toggles the audible buzzer on/off.
7. **VA Display:** Digital screen showing measurements and indicators.

8. **Bubble Vials:** Traditional spirit level vials for quick reference.
9. **V-Groove Base with Magnets:** Allows secure attachment to pipes and other metal surfaces.
10. **Battery Cover:** Located on the back for battery access.

## 4. SETUP

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### 4.1 Battery Installation

The RISEPRO DL135N requires 2 AAA batteries (not included).

1. Locate the battery cover on the back of the device.
2. Slide the battery cover open.
3. Insert two AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery cover securely.

### 4.2 Initial Calibration

For optimal accuracy, it is recommended to perform a calibration upon first use or if you suspect inaccurate readings. Ensure the surface used for calibration is perfectly level.

1. Place the digital level on a flat, stable, and level surface.
2. Press the **ON/OFF** button to power on the device.
3. Press and hold the **CAL** button until 'CAL 1' appears on the display.
4. Release the **CAL** button. The display will flash 'CAL 1'.
5. Press the **CAL** button again to confirm the first calibration point. The display will show 'CAL 2'.
6. Rotate the level 180 degrees horizontally on the same flat surface.
7. Press the **CAL** button again to confirm the second calibration point. The display will show 'PASS' indicating successful calibration.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Power On/Off

Press the **ON/OFF** button once to turn the device on. Press and hold the **ON/OFF** button for approximately 3 seconds to turn it off.

### 5.2 Absolute Measurement Mode

In Absolute Measurement Mode, the device measures the angle relative to a true horizontal plane (0°). This is the default mode when the device is powered on.

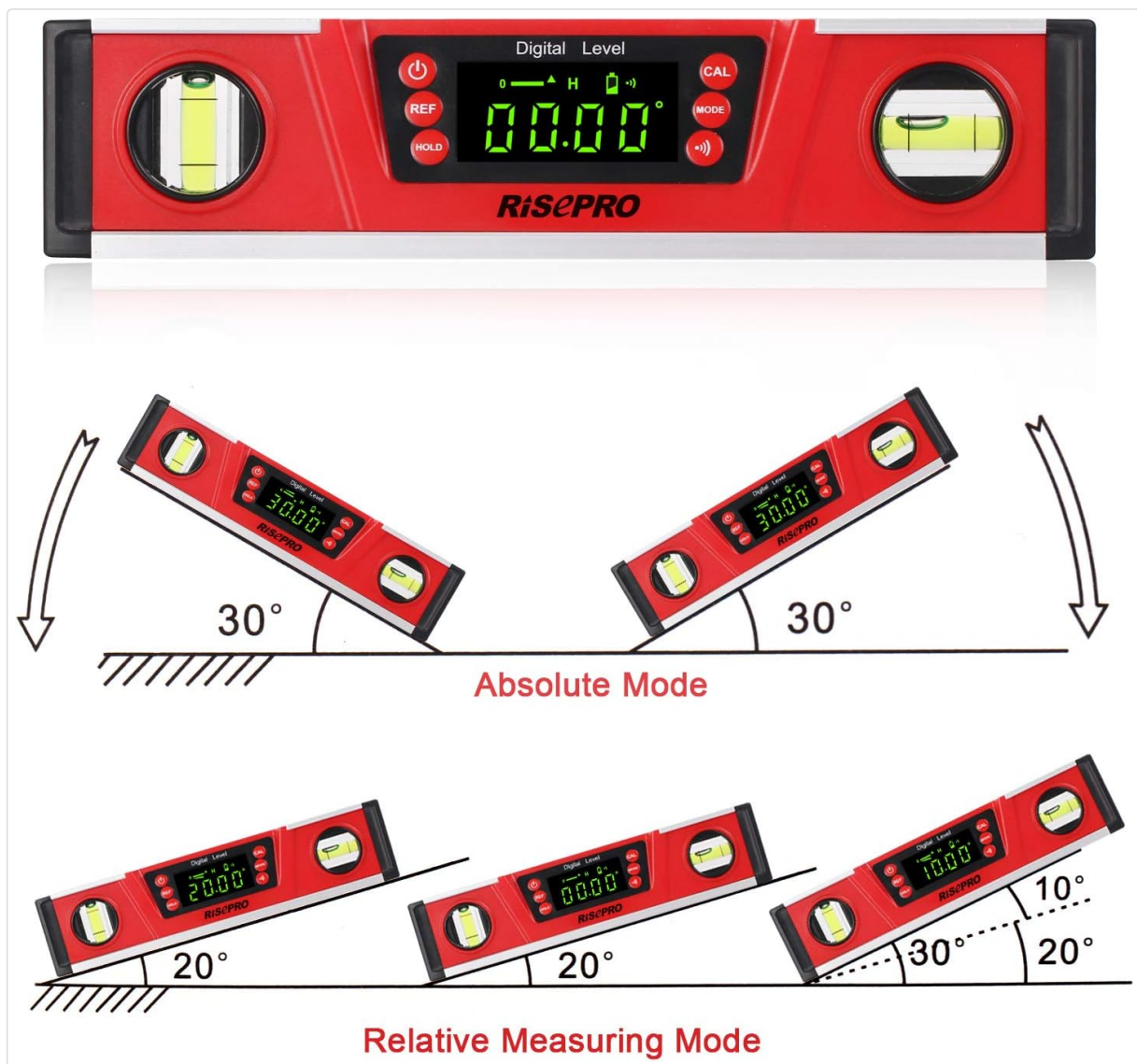


Figure 5.1: Illustration of Absolute Measurement Mode (top) and Relative Measurement Mode (bottom).

### 5.3 Relative Measurement Mode

Relative Measurement Mode allows you to measure the angle difference between two surfaces. This is useful for comparing angles or setting a specific reference point.

1. Place the level on the first surface you wish to set as your reference (0°).
2. Press the **REF** button. The display will show '0.00°' and a 'REF' indicator, signifying that this position is now the relative zero.
3. Move the level to the second surface. The display will now show the angle difference relative to your set reference.
4. To exit Relative Measurement Mode, press the **REF** button again. The device will return to Absolute Measurement Mode.

### 5.4 Unit Conversion

The device can display measurements in four different units:

- Degrees (°)
- Percent (%)
- mm/m (millimeters per meter)
- IN/FT (inches per foot)

To switch between units, press the **MODE** button repeatedly until your desired unit is displayed.

## 5.5 Hold Function

To freeze the current reading on the display, press the **HOLD** button. The 'H' indicator will appear on the screen. Press the **HOLD** button again to release the reading and resume live measurement.

## 5.6 Audible Buzzer

The device features an audible buzzer that sounds when the level is at 0° (horizontal) or 90° (vertical). This is particularly useful when working in conditions where the display is not easily visible.

To toggle the buzzer on or off, press the **Buzzer** button (speaker icon).

## 5.7 Magnetic V-Groove Base

The integrated V-groove base with strong magnets allows the level to be securely attached to various metal surfaces, including pipes, conduits, and steel beams, for hands-free operation.



Figure 5.2: The V-groove magnetic base provides secure attachment to cylindrical objects.

## 6. MAINTENANCE

### 6.1 Cleaning

Wipe the device with a soft, damp cloth. Do not use harsh chemicals, abrasive cleaners, or solvents, as

these can damage the display or casing. Ensure the device is dry before storage.

## 6.2 Storage

When not in use, store the RISEPRO DL135N in a dry, cool place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

## 6.3 Battery Replacement

When the battery indicator appears on the display, replace the batteries promptly to ensure accurate readings and continuous operation. Refer to Section 4.1 for battery installation instructions.

# 7. TROUBLESHOOTING

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If you encounter issues with your RISEPRO DL135N, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity or replace with new AAA batteries.
Inaccurate readings.	Device needs calibration.	Perform a calibration as described in Section 4.2.
Display is dim or flickering.	Low battery power.	Replace batteries.
Buzzer not working.	Buzzer is turned off.	Press the Buzzer button to turn it on.

# 8. SPECIFICATIONS

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Technical details for the RISEPRO DL135N Digital Torpedo Level and Protractor.

- **Model:** DL135N
- **Material:** Aluminum
- **Color:** Red
- **Product Dimensions:** 2.32"L x 10"W (approximately 5.9 cm x 25.5 cm)
- **Item Weight:** Approximately 13.1 ounces (372 grams)
- **Operation Mode:** Manual
- **Power Source:** 2 x AAA Alkaline Batteries (not included)
- **Protection Rating:** IP54 (Dust protected, splash proof)

# IP65 RATING

IDEAL FOR MOIST AND DUSTY CONDITIONS



Figure 8.1: The device features IP54 protection, making it suitable for use in moist and dusty environments.

## 9. WARRANTY AND SUPPORT

RISEPRO products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your purchase or contact your retailer.

### Customer Support:

If you have any questions, require technical assistance, or need to report an issue, please contact RISEPRO customer support through the retailer's platform or the official RISEPRO website. Please have your product model (DL135N) and purchase information ready when contacting support.