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> Thsinde Handheld Digital Laser Tachometer User Manual

Thsinde TH458

Thsinde Handheld Digital Laser Tachometer User Manual

Model: TH458

INTRODUCTION

Thank you for choosing the Thsinde Handheld Digital Laser Tachometer. This non-contact RPM meter is designed for accurate measurement of motor speeds, machinery, and other rotating devices. Please read this manual thoroughly before use to ensure proper operation and maintenance.



Figure 1: Thsinde Handheld Digital Laser Tachometer

SETUP

1. Battery Installation

The tachometer requires a 9V battery (not included). To install, open the battery compartment located at the bottom of the handle, insert the 9V battery, ensuring correct polarity, and close the compartment securely.

2. Applying Reflective Tape

For accurate non-contact measurements, a small piece of reflective tape must be applied to the rotating object. Ensure the tape is clean and securely attached to a flat, non-reflective surface on the object. Only one piece of tape is typically required for measurement.



Figure 2: Tachometer in use, demonstrating reflective tape application on a rotating object.

OPERATING INSTRUCTIONS

1. Power On/Off

Press the power button (usually the trigger or a dedicated button) to turn on the device. The LCD screen will illuminate. The device features an auto-off function to conserve battery power.

2. Taking Measurements

1. Ensure the reflective tape is applied to the rotating object.
2. Point the laser beam at the reflective tape on the rotating object. The optimal measuring distance is between 2 to 20 inches (50-500mm).
3. Press and hold the measurement button (often the trigger). The device will display the RPM reading on the LCD screen.
4. Release the button to hold the last reading.



Figure 3: Proper aiming of the laser for measurement.

3. Display Features

The large, easy-to-read LCD screen displays the current RPM. It also stores the last, minimum, and maximum readings. The device features auto-zero adjustment for consistent measurements.

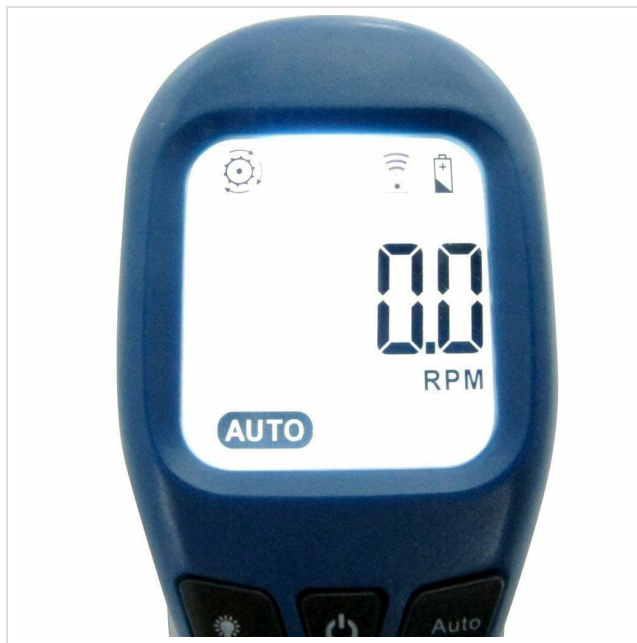


Figure 4: Detailed view of the tachometer's LCD display.

4. Instructional Video

For a visual guide on operating the tachometer, please watch the official instructional video below:

Your browser does not support the video tag.

Video 1: Digital Laser Tachometer Instructions for Use. This video demonstrates the application of reflective tape and the process of taking RPM measurements using the device.

MAINTENANCE

1. Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Keep the laser lens clean and free of dust or debris for accurate readings.

2. Storage

Store the tachometer in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the battery to prevent leakage.

3. Battery Replacement

When the low battery indicator appears on the display, replace the 9V battery promptly to ensure continued accurate operation.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or device won't turn on	Dead or improperly installed battery	Check battery polarity or replace with a fresh 9V battery.
Inaccurate or erratic readings	<ul style="list-style-type: none">• Improper reflective tape application• Measurement distance too far or too close• Laser lens obstructed or dirty• Incorrect angle to target	<ul style="list-style-type: none">• Ensure reflective tape is clean, flat, and securely applied.• Maintain a distance of 2-20 inches (50-500mm).• Clean the laser lens.• Aim the laser directly at the reflective tape.
Device turns off too quickly (Auto-off)	Designed feature for battery saving	This is normal operation. Press the power button again to resume measurement.

SPECIFICATIONS

- **Model:** TH458
- **Measuring Range:** 2.5-99999 RPM (requires reflective strip)
- **Resolution:** 0.1 RPM (at 2.5~999.9 RPM); 1 RPM (at 1000~99,999 RPM)
- **Accuracy:** +/- 0.02 percent
- **Measuring Distance:** 2-20 inches (50-500mm)
- **Sampling Time:** 0.5 seconds
- **Display:** Large LCD with auto-zero adjustment, stores last, minimum, and maximum readings
- **Material:** ABS plastic
- **Product Dimensions:** 0.39 x 0.39 x 0.39 inches
- **Item Weight:** 4.94 ounces
- **Manufacturer:** Thsinde

WARRANTY AND SUPPORT

Specific warranty information for the Thsinde Handheld Digital Laser Tachometer (Model TH458) is not provided in this manual. For details regarding warranty coverage, technical support, or service, please contact the manufacturer, Thsinde, directly or refer to the product packaging and purchase documentation.