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› REVASRI Paint Mil Thickness Meter Gauge User Manual - Model RV-CTG-BL

REVASRI RV-CTG-BL

REVASRI Paint Mil Thickness Meter Gauge User Manual

Model: RV-CTG-BL

1. INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your REVASRI Paint Mil Thickness Meter Gauge, Model RV-CTG-BL. This device is designed for accurate measurement of non-magnetic coatings on magnetic (ferrous) substrates and non-conductive coatings on non-magnetic (non-ferrous) metal substrates. It is ideal for applications such as automotive paint inspection.

2. PRODUCT FEATURES

- Automatic recognition of ferrous (Fe) and non-ferrous (NFe) substrates.
- Color LCD for clear visibility.
- Built-in rechargeable Lithium-Ion battery with USB-C charging.
- Automatic shutdown feature to conserve battery life.
- Gravity sensor for auto-rotation display, ensuring easy readability from any angle.
- Continuous measurement function for multiple readings without interruption.
- Data storage capability to review past measurements.
- Measurement units: micrometers (μm), millimeters (mm), and mils (mil).

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- REVASRI Paint Mil Thickness Meter Gauge (Model RV-CTG-BL)
- USB-C Charging Cable
- Calibration Sheets
- Calibration Substrates (Ferrous and Non-Ferrous)

- Storage Pouch
- User Manual (this document)

4. DEVICE OVERVIEW



Image 1: Front view of the REVASRI Paint Mil Thickness Meter Gauge, showing the display and control buttons.

HIGH PRECISION PROBES

Resolution 0.1 μ m(0-99.9 μ m), 1 μ m($\geq$ 100 μ m)
0.001mil(0-9.999mil), 0.01mil($\geq$ 10mil)

Range 0~2200 μ m (0~86.61mil)

Accuracy $\pm$ (2.5%+2 μ m/0.08mil)



Image 2: Close-up view of the high-precision probe on the REVASRI Thickness Gauge, highlighting its measurement capabilities.

Controls and Display:

- **Power/Menu Button:** Press and hold to power on/off. Short press to access menu options.
- **CAL Button:** Used for calibration procedures.
- **CLEAR Button:** Clears current readings or navigates back in menus.
- **ZERO Button:** Used for zero-point calibration.
- **Up/Down Arrows:** Navigate menu options or adjust settings.
- **LCD Display:** Shows measurement readings, unit, battery status, and substrate type (Fe/NFe).

5. SETUP

5.1. Charging the Device

Before first use, fully charge the device using the provided USB-C cable.

1. Connect the USB-C cable to the charging port on the device.
2. Connect the other end of the cable to a standard USB power adapter (not included) or a computer's USB port.
3. The battery indicator on the LCD will show charging status.
4. Once fully charged, disconnect the cable.



Image 3: The REVASRI Thickness Gauge connected to a USB-C charging cable, illustrating the charging process.

5.2. Powering On/Off

- To power on: Press and hold the **Power/Menu** button until the display illuminates.
- To power off: Press and hold the **Power/Menu** button until the display turns off. The device also features automatic shutdown after a period of inactivity.

6. OPERATING INSTRUCTIONS

6.1. Basic Measurement

1. Ensure the device is powered on.
2. Place the probe firmly and perpendicularly onto the surface to be measured.
3. The device will automatically detect the substrate type (Fe or NFe) and display the coating thickness reading on the LCD.
4. For continuous measurement, keep the probe on the surface and move it slowly. The display will update in real-time.

6.2. Unit Selection

The device supports measurements in micrometers (μm), millimeters (mm), and mils (mil).

1. Short press the **Menu** button to enter the unit selection mode.
2. Use the **Up/Down Arrows** to cycle through the available units (mil, μm , mm).
3. Press the **Menu** button again to confirm your selection and exit.



Image 4: The REVASRI Thickness Gauge showing measurement readings in three different units: mil, micrometers (μm), and millimeters

(mm).

6.3. Auto-Rotation Display

The device features a gravity sensor that automatically rotates the display for optimal viewing, regardless of the device's orientation.

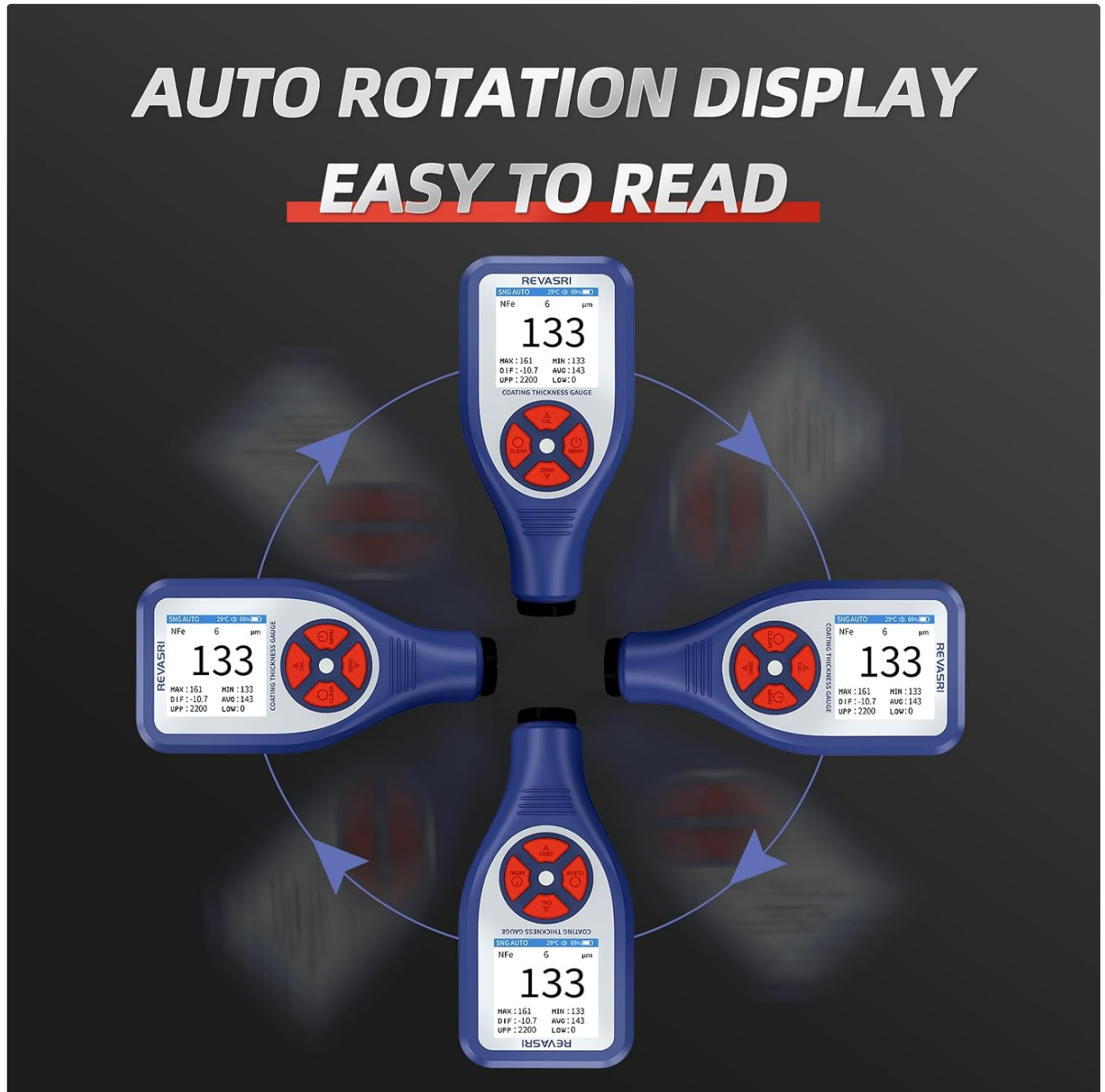


Image 5: The REVASRI Thickness Gauge demonstrating its auto-rotation display feature, showing the screen adjusting to different orientations.

7. CALIBRATION

Regular calibration ensures the accuracy of your thickness gauge. The device comes factory-calibrated, but re-calibration may be necessary for specific applications or if accuracy issues arise.

7.1. Zero-Point Calibration

1. Ensure the device is powered on and in measurement mode.
2. Place the probe directly onto the bare ferrous (Fe) or non-ferrous (NFe) calibration substrate (without any coating).

3. Press the **ZERO** button. The display should read "0.0" or very close to it.
4. Repeat for the other substrate type if necessary.

7.2. Multi-Point Calibration (using calibration sheets)

1. Perform Zero-Point Calibration first.
2. Place one of the provided calibration sheets (e.g., 50µm) onto the appropriate calibration substrate (Fe or NFe).
3. Place the probe firmly onto the calibration sheet.
4. Press the **CAL** button. The display will show a value.
5. Use the **Up/Down Arrows** to adjust the displayed value to match the known thickness of the calibration sheet.
6. Press **CAL** again to confirm.
7. Repeat this process for other calibration sheets and both substrate types for comprehensive calibration.

8. DATA STORAGE AND REVIEW

The device can store measurement data for later review.

- To save a measurement: After taking a reading, the device automatically stores it. Consult the full manual for specific instructions on manual saving if available.
- To review stored data: Press the **Menu** button and navigate to the "Review Data" or "Memory" option using the **Up/Down Arrows**. Press **Menu** to select.
- Use the **Up/Down Arrows** to scroll through stored readings.
- Press **CLEAR** to exit the review mode.

9. MAINTENANCE

9.1. Cleaning

- Wipe the device body with a soft, dry cloth.
- Ensure the probe tip is clean and free of debris for accurate measurements. Use a soft brush or cloth if necessary.
- Do not use abrasive cleaners or solvents.

9.2. Storage

- Store the device in its protective pouch when not in use.
- Keep the device in a dry environment, away from extreme temperatures and direct sunlight.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device using the USB-C cable.

Problem	Possible Cause	Solution
Inaccurate readings.	Device needs calibration; dirty probe tip; incorrect measurement technique.	Perform calibration (Zero-Point and Multi-Point). Clean the probe tip. Ensure the probe is placed firmly and perpendicularly.
Display is blank or frozen.	Software error; low battery.	Try restarting the device. Charge the device. If problem persists, contact customer support.
Cannot switch units.	Not in the correct menu mode.	Short press the Menu button to enter unit selection.

11. SPECIFICATIONS

Model Number	RV-CTG-BL
Measuring Range	0~2200μm (0~86.61mils)
Resolution	0.1μm (0-99.9μm), 1μm (≥100μm) 0.001mil (0-9.999mil), 0.01mil (≥10mil)
Accuracy	± (2.5% + 2μm / 0.08mil)
Measurement Units	μm, mm, mil
Substrate Recognition	Automatic (Ferrous/Non-Ferrous)
Battery Type	Built-in Lithium Ion (750mAh)
Charging Port	USB-C
Product Dimensions	10.01 x 4.9 x 1.5 cm (3.94 x 1.93 x 0.59 inches)
Item Weight	58 g

12. WARRANTY AND SUPPORT

REVASRI products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase documentation or visit the official REVASRI website. Please have your model number (RV-CTG-BL) and purchase date ready when contacting support.

Manufacturer: REVASRI

Date First Available: September 27, 2024

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question