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› INSIZE 1141-500A Electronic Depth Gage User Manual

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INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation of the INSIZE 1141-500A Electronic Depth Gage. Designed for precise depth measurements, this instrument offers both inch and millimeter readings with high accuracy. Please read this manual thoroughly before using the device to ensure proper handling, maintenance, and to achieve optimal measurement results.

PRODUCT OVERVIEW AND FEATURES

The INSIZE 1141-500A is an electronic depth gage constructed from durable stainless steel, featuring a clear digital display and user-friendly controls. Key features include:

- **High Resolution:** Provides precise measurements with a resolution of 0.0005 inches (0.01 mm).
- **Intuitive Controls:** Equipped with ON/OFF, ZERO, and inch/mm conversion buttons for ease of use.
- **Automatic Power Off:** Conserves battery life by automatically powering off. The unit can be turned on by simply moving the digital unit.
- **Data Output:** Features a data output port for connecting to external devices (optional data output cable required, models 7302-SPC5A, 7305-SPC2A).
- **Durable Construction:** Made of stainless steel for long-lasting performance and resistance to wear.



An image of the INSIZE 1141-500A Electronic Depth Gage. The digital display shows '34.08 mm'. Buttons for 'OFF', 'ON', and 'ZERO' are visible, along with an 'in/mm' button. The main beam is marked with both inch and millimeter scales, and the INSIZE logo is present.

WHAT'S IN THE BOX

Upon opening the packaging, please verify that all components are present:

- INSIZE 1141-500A Electronic Depth Gage
- CR2032 Battery (pre-installed or separate)
- Hard Plastic Blow Mold Case

SETUP

Battery Installation

1. Locate the battery compartment cover on the digital unit.
2. Carefully remove the cover.
3. Insert one CR2032 battery with the positive (+) side facing upwards.
4. Replace the battery compartment cover securely.

Initial Power On

After battery installation, press the "ON" button to power on the depth gage. Alternatively, moving the digital unit will automatically power on the device due to its automatic power-on feature.

OPERATING INSTRUCTIONS

Power On/Off

- To turn on: Press the "ON" button or slide the digital unit.
- To turn off: Press the "OFF" button. The unit also features automatic power off after a period of inactivity.

Zero Setting

To ensure accurate measurements, it is crucial to zero the gage before use:

1. Place the base of the depth gage firmly on a flat, stable reference surface.
2. Ensure the measuring rod is fully retracted and in contact with the reference surface.
3. Press the "ZERO" button. The display should now read "0.000" or "0.00".

Inch/Millimeter Conversion

To switch between imperial (inches) and metric (millimeters) units, press the "in/mm" button. The display will instantly convert the reading to the selected unit.

Taking a Measurement

1. Ensure the gage is properly zeroed on a suitable reference surface.
2. Position the depth gage over the feature to be measured, ensuring the base is stable and flat on the reference plane.
3. Extend the measuring rod into the depth feature until it makes firm contact with the bottom.
4. Read the measurement directly from the digital display.

Data Output

The depth gage is equipped with a data output port. To utilize this feature, an optional data output cable (e.g., INSIZE models 7302-SPC5A or 7305-SPC2A) is required. Connect the cable to the port on the digital unit and to a compatible data collection system or computer for recording measurements.

MAINTENANCE

Cleaning

Regularly clean the depth gage with a soft, dry cloth. For stubborn dirt, a cloth lightly dampened with isopropyl alcohol can be used. Avoid using harsh chemicals or abrasive materials that could damage the finish or electronic components.

Battery Replacement

When the display becomes dim or erratic, it is time to replace the CR2032 battery. Follow the battery installation steps outlined in the "Setup" section.

Storage

Store the depth gage in its original hard plastic blow mold case when not in use. Keep it in a clean, dry environment, away from direct sunlight, extreme temperatures, and high humidity. Ensure the measuring rod is fully retracted before storage to protect it from damage.

TROUBLESHOOTING

- **Display is blank or dim:**

Check the battery. Replace the CR2032 battery if it is low or depleted. Ensure the battery is inserted with the correct polarity.

- **Inaccurate readings:**

Ensure the gage is properly zeroed on a clean, flat reference surface. Clean the measuring surfaces of the gage to remove any debris. Verify that the workpiece surface is clean and free of burrs.

- **Buttons are unresponsive:**

Try replacing the battery. If the issue persists, contact INSIZE customer support.

SPECIFICATIONS

Model Number	1141-500A
Measuring Range	0-20 inches / 0-500 mm
Resolution	0.0005 inches / 0.01 mm
Power Source	CR2032 Battery
Material	Stainless Steel
Product Dimensions	25.98 x 7.28 x 1.57 inches
Weight	2.85 Pounds

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact INSIZE customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: INSIZE