

iGaging 35-070-025

iGaging 0-1" Digital Quick Micrometer SpeedMic User Manual

Model: 35-070-025

1. INTRODUCTION

Thank you for choosing the iGaging 0-1" Digital Quick Micrometer SpeedMic. This precision measuring instrument is designed for rapid and accurate dimensional measurements. Featuring Absolute Origin technology, IP65 coolant proofing, and a unique lever-activated snap mechanism, it offers efficiency and reliability for various industrial and scientific applications.

2. SAFETY INFORMATION

- Handle the micrometer with care to avoid dropping or impact, which can affect accuracy.
- Keep the measuring surfaces clean and free from dust, oil, or debris.
- Do not attempt to disassemble the unit beyond battery replacement.
- Store the micrometer in its protective case when not in use.

3. PACKAGE CONTENTS

- iGaging 0-1" Digital Quick Micrometer SpeedMic
- Protective Storage Case
- Ball Attachment
- CR2032 Battery (may be pre-installed or separate)
- Battery Compartment Tool
- Instruction Manual
- Calibration Certificate

4. PRODUCT OVERVIEW

The iGaging SpeedMic features a robust design for precise measurements. Key components include:

- **Digital Display:** Shows measurement readings.
- **Operating Lever:** Activates the spindle for quick opening and closing.
- **Spindle:** Moving carbide-tipped measuring face.
- **Anvil:** Fixed carbide-tipped measuring face.

- **Thimble:** Fixed, non-rotating thimble for fine adjustment feel.
- **ON/OFF Button:** Powers the unit on or off.
- **ZERO Button:** Sets the display to zero.
- **ABS/INC Button:** Toggles between Absolute and Incremental measurement modes.
- **in/mm Button:** Switches between inch and millimeter units.
- **SPC/USB Data Output Port:** For connecting to data collection systems (cable sold separately).



Figure 1: iGaging 0-1" Digital Quick Micrometer SpeedMic in various measurement states, showing the digital display and lever mechanism.



Figure 2: Close-up view of the carbide-tipped spindle and anvil of the iGaging SpeedMic, highlighting the measuring surfaces.

5. SETUP

5.1 Battery Installation

1. Locate the battery compartment cover on the back of the micrometer.
2. Use the provided battery compartment tool to gently turn the cover counter-clockwise and remove it.
3. Insert a new CR2032 battery with the positive (+) side facing up.
4. Replace the cover and turn clockwise until secure.

5.2 Initial Power On

Press the **ON/OFF** button to turn on the micrometer. The display will illuminate and show the current reading.

6. OPERATING INSTRUCTIONS

6.1 Power ON/OFF

Press the **ON/OFF** button to switch the gauge on. To turn off, press and hold the **ON/OFF** button for 5 seconds, or the unit will auto-shutoff after 5 minutes of inactivity.

6.2 Zero Setting

1. Ensure the measuring faces (spindle and anvil) are clean.
2. Gently close the measuring faces completely using the operating lever.
3. Press the **ZERO** button. The display will show "0.00000" (or "0.000") indicating it is zeroed.

6.3 Absolute (ABS) and Incremental (INC) Measurement

Press the **ABS/INC** button to switch between absolute and incremental modes. In absolute mode, the micrometer always references its true zero point. In incremental mode, you can set a temporary zero at any point for comparative measurements.

6.4 Unit Conversion (in/mm)

Press the **in/mm** button to toggle between inch and millimeter readings.

6.5 Measurement Technique

1. Clean the surfaces of the object to be measured and the micrometer's measuring faces.
2. Hold the micrometer firmly.
3. Press the operating lever to open the spindle wider than the object.
4. Position the object between the spindle and anvil.
5. Release the operating lever slowly until the measuring faces contact the object with consistent pressure. The micrometer's internal spring mechanism ensures repeatable measuring force.
6. Read the measurement directly from the digital display.

6.6 Data Output (SPC/USB)

The micrometer is equipped with an SPC/USB data output port. To utilize this feature, connect an optional SPC/USB data cable (not included) to the port and to a computer or data collection device. This allows for direct transfer of measurement data.



Figure 3: iGaging 0-1" Digital Quick Micrometer SpeedMic connected to an optional USB/SPC data output cable (cable not included).

7. MAINTENANCE

7.1 Cleaning

Regularly clean the micrometer, especially the measuring faces, with a clean, lint-free cloth. For stubborn dirt, a small amount of isopropyl alcohol can be used, but avoid harsh solvents or abrasive materials.

7.2 Storage

When not in use, store the micrometer in its protective case. It is recommended to leave the measuring faces slightly open to prevent pressure on the spindle and anvil, which can prolong the life of the instrument.

7.3 Battery Replacement

Refer to section 5.1 for instructions on replacing the CR2032 battery.

8. TROUBLESHOOTING

- **Display is blank:** Check battery installation and charge. Replace battery if necessary.
- **Inaccurate readings:** Ensure measuring surfaces are clean. Re-zero the micrometer. Check for any physical damage.
- **Buttons unresponsive:** Check battery. If issue persists, contact support.

9. SPECIFICATIONS

Parameter	Value
Measuring Range	0-1" / 0-25mm
Resolution	0.00005" / 0.001mm
Accuracy	±0.00015" / 0.003mm
Protection Rating	IP65 Coolant Proof
Spindle Type	Carbide Tipped
Thimble Type	Fixed
Data Output	SPC/USB (cable not included)
Power Supply	CR2032 Battery

10. WARRANTY AND SUPPORT

This iGaging micrometer comes with a **2-year warranty** from the date of purchase. For warranty claims, technical support, or service inquiries, please contact iGaging customer service through their official website or your point of purchase. Please have your model number and purchase date available when contacting support.

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