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› Mahr Federal uMaxum Digital Electronic Comparator Indicator EDI 10102 User Manual

Mahr EDI 10102

Mahr Federal uMaxum Digital Electronic Comparator Indicator EDI 10102 User Manual

Model: EDI 10102 | Brand: Mahr Federal

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1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of the Mahr Federal uMaxum Digital Electronic Comparator Indicator, Model EDI 10102. This precision instrument is designed for accurate dimensional measurement and comparison tasks in various industrial and scientific applications. Please read this manual thoroughly before operating the device to ensure proper function and longevity.



Figure 1: Front view of the Mahr Federal uMaxum Digital Electronic Comparator Indicator, showing the digital display and control buttons.

2. SETUP

2.1 Unpacking and Inspection

- Carefully remove the indicator from its packaging.
- Inspect the device for any signs of damage that may have occurred during transit. If damage is found, contact your supplier immediately.
- Ensure all components are present.

2.2 Power Supply (Battery Installation)

The uMaxum indicator operates on internal batteries. To install or replace batteries:

1. Locate the battery compartment cover, typically on the rear or side of the unit.
2. Use a small screwdriver or coin to open the compartment.
3. Insert the required batteries, observing the correct polarity (+/-) as indicated inside the compartment.
4. Securely close the battery compartment cover.

2.3 Mounting the Indicator

The indicator features a mounting stem for attachment to various stands or fixtures. Ensure the mounting surface is clean and stable.

- Insert the indicator's stem into the appropriate clamp or holder on your measurement stand.
- Tighten the clamp securely, but do not overtighten, to avoid damaging the stem or the indicator body.
- Position the indicator so that its measuring probe can make proper contact with the workpiece.



Figure 2: Side view of the indicator, showing the mounting stem and the product label with manufacturer information.

3. OPERATION

3.1 Power On/Off

- To power on the indicator, press the **M/OFF** button briefly. The display will illuminate.
- To power off, press and hold the **M/OFF** button until the display turns off.

3.2 Unit Selection (Inch/Millimeter)

The indicator can display measurements in either inches or millimeters.

- Press the **inch/mm** button to toggle between inch and millimeter units. The selected unit will be displayed on the screen.

3.3 Zeroing the Display

Before taking comparative measurements, it is crucial to zero the indicator at a reference point.

1. Position the indicator's probe against your reference surface or master workpiece.
2. Ensure the probe is making firm, consistent contact.
3. Press the **ZEF** (Zero) button. The display will reset to zero.

3.4 Taking Measurements

After zeroing, the indicator is ready for comparative measurements.

- Carefully move the workpiece to be measured under the indicator's probe.
- Allow the probe to settle on the measurement surface.
- Read the deviation from the zero reference directly on the digital display. A positive value indicates the workpiece is larger than the reference, and a negative value indicates it is smaller.

4. MAINTENANCE

4.1 Cleaning

- Keep the indicator clean and free from dust, dirt, and oils.
- Use a soft, lint-free cloth to wipe the display and body.
- For stubborn grime, a cloth lightly dampened with isopropyl alcohol may be used. Avoid harsh chemicals or abrasive cleaners.
- Ensure no liquids enter the internal components.

4.2 Storage

- When not in use, store the indicator in its protective case or a clean, dry environment.
- Avoid exposing the device to extreme temperatures, high humidity, or direct sunlight.
- If storing for extended periods, remove the batteries to prevent leakage.

4.3 Calibration

Regular calibration is essential to maintain the accuracy of your digital indicator. It is recommended to have the device calibrated by qualified personnel at regular intervals, depending on usage and environmental conditions.

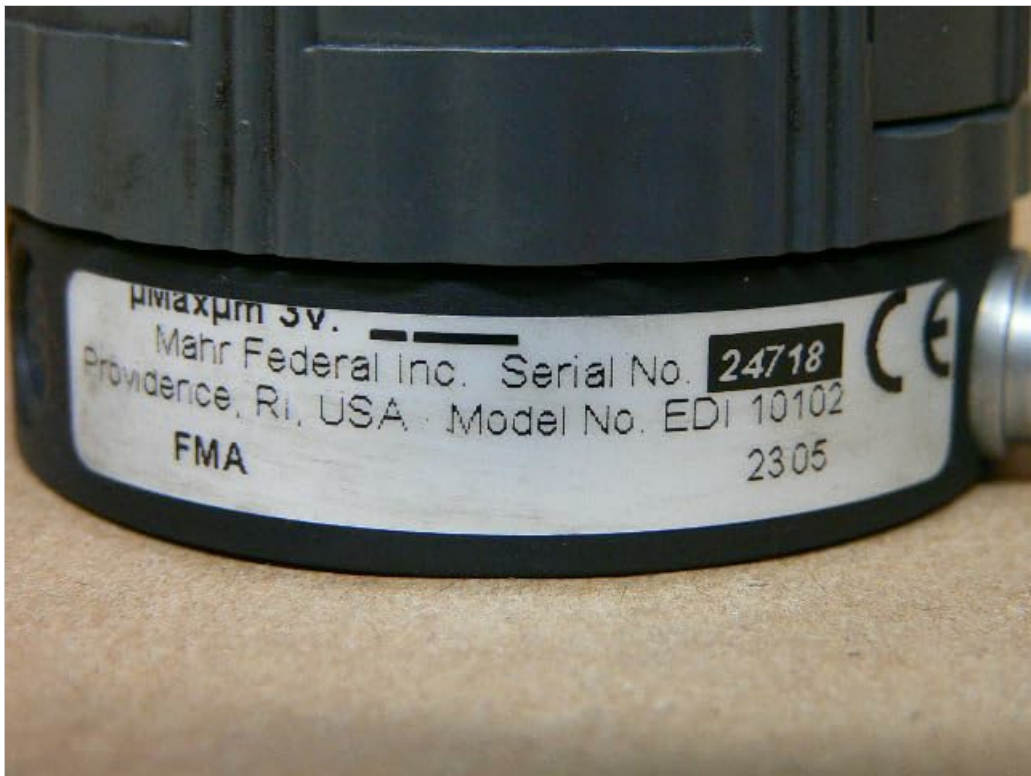


Figure 3: Product label showing model number, serial number, and contact information for repair/calibration services.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display does not turn on.	Dead or incorrectly installed batteries.	Replace batteries, ensuring correct polarity.
Inaccurate or inconsistent readings.	• Dirty probe tip or measuring surface. • Loose mounting. • Device requires calibration.	• Clean probe and workpiece. • Ensure indicator is securely mounted. • Contact Mahr Federal for calibration services.
Buttons are unresponsive.	Low battery or internal malfunction.	Replace batteries. If problem persists, contact support.

6. SPECIFICATIONS

Feature	Detail
Model Number	EDI 10102
Product Dimensions	7.09 x 6.3 x 8.27 inches
Item Weight	11.41 pounds
Manufacturer	Mahr Federal
ASIN	B0006J3IMM
Date First Available	October 7, 2019

Feature	Detail
Measurement Units	Inch / Millimeter
Display Type	Digital Electronic

7. WARRANTY & SUPPORT

7.1 Warranty Information

For detailed warranty information, please refer to the documentation provided with your purchase or visit the official Mahr Federal website. Warranty terms and conditions may vary.

7.2 Technical Support and Service

Should you require technical assistance, repair, or calibration services for your Mahr Federal uMaxum Digital Electronic Comparator Indicator, please contact Mahr Federal Inc. directly.

Contact for Repair/Calibration:

- Phone:** 1-800-486-8858
- Manufacturer:** Mahr Federal Inc.
- Location:** Providence, RI, USA

Please have your model number (EDI 10102) and serial number (found on the product label) ready 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.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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

Open the live page

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