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› Dwyer Mark II Model 25 Inclined Manometer User Manual

Dwyer Makrk II 25 + A-612

Dwyer Mark II Model 25 Inclined Manometer User Manual

Model: Makrk II 25 + A-612

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of the Dwyer Mark II Model 25 Inclined Manometer. This instrument is designed for accurate measurement of low pressures, vacuums, or differential pressures.

Please read this manual thoroughly before operating the device to ensure safe and efficient use.



Figure 1: Front view of the Dwyer Mark II Model 25 Inclined Manometer. The image displays the instrument's face with a scale marked in inches of water column, ranging from -0.05 to 3 inches. Key features visible include the "HIGH" and "LOW" pressure ports, a "FILL" port, a "ZERO SET" knob, and the Dwyer Mark II branding. A spirit level is integrated at the bottom right for proper leveling during operation.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Do not exceed the maximum pressure rating of the instrument.
- Ensure the manometer is level before taking readings.
- Use only the specified manometer fluid.
- Keep the instrument clean and free from debris.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove the manometer from its packaging. Inspect the instrument for any signs of damage that may have occurred during shipping. If damage is found, contact your supplier immediately.

3.2 Mounting

The Mark II Model 25 can be mounted on a vertical surface using the provided mounting brackets or placed on a flat, stable surface. Ensure the instrument is securely mounted and level. The integrated spirit level should be centered.

3.3 Filling with Manometer Fluid

1. Remove the fill plug located at the top of the manometer.
2. Slowly pour the specified Dwyer manometer fluid into the fill port until the fluid level reaches the "0" mark on the scale when the instrument is level and at atmospheric pressure.
3. Replace the fill plug securely.

3.4 Zero Adjustment

Before taking any measurements, ensure the manometer is level and the pressure ports are open to atmospheric pressure. Use the "ZERO SET" knob located at the bottom left of the instrument to adjust the fluid level precisely to the "0" mark on the scale.

4. OPERATING INSTRUCTIONS

4.1 Connecting to Pressure Source

Connect the pressure source to the appropriate port:

- For positive pressure measurement, connect the pressure source to the "HIGH" port. Leave the "LOW" port open to atmosphere.
- For vacuum measurement, connect the vacuum source to the "LOW" port. Leave the "HIGH" port open to atmosphere.
- For differential pressure measurement, connect the higher pressure to the "HIGH" port and the lower pressure to the "LOW" port.

4.2 Taking Readings

Once connected, the fluid column will move to indicate the pressure. Read the measurement directly from the scale at the top of the fluid column. Ensure your eye is level with the fluid meniscus to avoid parallax error.

The scale is calibrated in inches of water column (WC).

5. MAINTENANCE

5.1 Cleaning

Wipe the exterior of the manometer with a soft, damp cloth. Do not use abrasive cleaners or solvents that could damage the finish or the clear viewing tube.

5.2 Fluid Replacement

The manometer fluid should be replaced periodically, or if it appears discolored or contaminated. Refer to the fluid manufacturer's recommendations for replacement intervals. To replace fluid, drain the old fluid, flush the system if necessary, and refill as described in Section 3.3.

5.3 Storage

When not in use, store the manometer in a clean, dry environment, away from direct sunlight and extreme temperatures. Ensure the pressure ports are capped to prevent dust ingress.

6. TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Inaccurate readings	Manometer not level; incorrect zero adjustment; contaminated fluid; air bubbles in fluid.	Ensure manometer is level; re-zero the instrument; replace fluid; gently tap the instrument to dislodge bubbles.
Fluid level fluctuates excessively	Pressure source instability; leaks in tubing/connections.	Check stability of pressure source; inspect all connections for leaks and tighten as necessary.
Fluid does not move	Blocked ports or tubing; no pressure applied.	Check for obstructions in ports and tubing; verify pressure is being applied.

7. SPECIFICATIONS

- **Model:** Dwyer Mark II Model 25
- **Range:** 3 inches Water Column (WC)
- **Fluid:** Specific Dwyer Manometer Fluid (Type not specified, user should refer to product documentation or manufacturer)
- **Manufacturer:** Dwyer Instruments, Inc.

Note: For complete and precise specifications, refer to the official product datasheet from Dwyer Instruments.

8. WARRANTY INFORMATION

Dwyer Instruments products are typically covered by a limited warranty against defects in materials and workmanship. The duration and terms of the warranty may vary. Please refer to the warranty statement included with your product packaging or visit the official Dwyer Instruments website for the most current warranty information. This warranty generally does not cover damage resulting from improper installation, misuse, abuse, unauthorized repair, or normal wear and tear.

9. CUSTOMER SUPPORT

For technical assistance, replacement parts, or service, please contact Dwyer Instruments customer support:

- **Website:** www.dwyer-inst.com
- **Phone:** Refer to the Dwyer Instruments website for regional contact numbers.

When contacting support, please have your product model number (Makrk II 25 + A-612) and serial number (if applicable) ready.

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Name

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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