

Dwyer 2008

Dwyer 2008 Magnehelic Pressure Gauge Instruction Manual

Model: 2008

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Dwyer 2008 Magnehelic Pressure Gauge. Please read this manual thoroughly before using the device to ensure safe and efficient operation and to prevent damage to the unit.

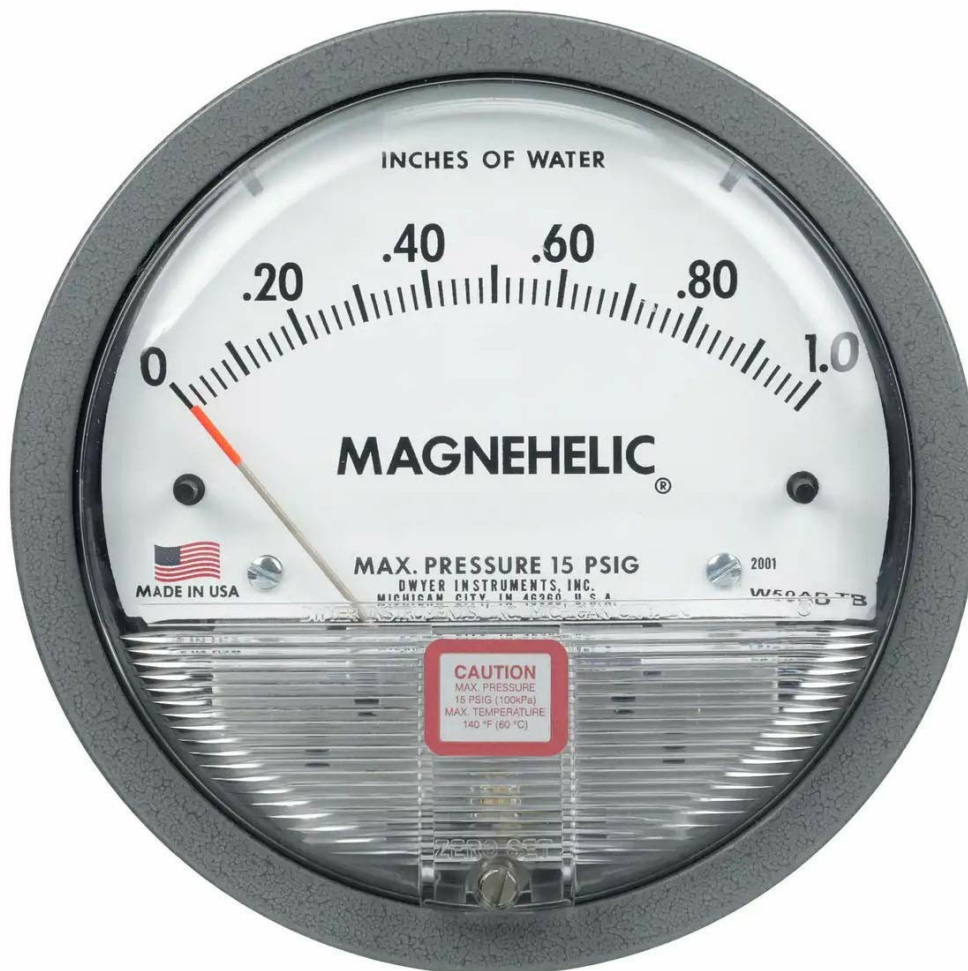
2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the gauge:

- Do not exceed the maximum pressure rating of 15 PSIG (100 kPa).
- Do not exceed the maximum temperature rating of 140 °F (60 °C).
- Ensure the gauge is installed by qualified personnel in accordance with local codes and regulations.
- Use appropriate personal protective equipment (PPE) when handling or installing the gauge.
- Verify that the system pressure is relieved before attempting any installation or maintenance.

3. PRODUCT OVERVIEW

The Dwyer 2008 Magnehelic Pressure Gauge is a versatile, low-cost instrument designed for measuring positive, negative, or differential pressures with high accuracy. It features a simple, frictionless Magnehelic movement that quickly indicates air or non-corrosive gas pressures.



A front view of the Dwyer 2008 Magnehelic Pressure Gauge, showing its circular dial with measurements in 'INCHES OF WATER' from 0 to 1.0. The dial features markings at .20, .40, .60, .80, and 1.0. The brand 'MAGNEHELIC' is prominently displayed. A red needle points to zero. The gauge also indicates 'MAX. PRESSURE 15 PSIG' and 'MAX. TEMPERATURE 140 °F (60 °C)' with a 'CAUTION' label. 'MADE IN USA' is visible on the lower left.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the Dwyer 2008 Magnehelic Pressure Gauge:

1. **Mounting:** The gauge can be flush mounted or surface mounted. Ensure the mounting location is stable and free from excessive vibration.
2. **Pressure Connections:** Connect the pressure lines to the appropriate NPT threaded ports on the gauge. For differential pressure, connect the higher pressure to the 'HIGH' port and the lower pressure to the 'LOW' port. For positive pressure, connect to the 'HIGH' port and leave the 'LOW' port open to atmosphere. For negative pressure, connect to the 'LOW' port and leave the 'HIGH' port open.
3. **Leak Check:** After connections are made, pressurize the system and check all connections for leaks using a suitable leak detection method.
4. **Zero Adjustment:** With no pressure applied, the needle should rest at zero. If not, use the zero adjustment screw located on the front of the gauge to bring the needle to the zero mark.

5. OPERATING INSTRUCTIONS

The Dwyer 2008 Magnehelic Pressure Gauge operates by sensing pressure differences and translating them into a mechanical movement of the needle across the dial. No external power is required for its operation.

- **Reading the Gauge:** Read the pressure directly from the dial where the needle points. The scale is in 'INCHES OF WATER'.
- **Pressure Range:** This model measures up to 1.0 inches of water column.
- **Overpressure Protection:** While the gauge can withstand some overpressure, continuous exposure to pressures above 15 PSIG (100 kPa) can damage the internal mechanism.

6. MAINTENANCE

The Dwyer 2008 Magnehelic Pressure Gauge is designed for minimal maintenance. However, periodic checks are recommended:

- **Cleaning:** Clean the exterior of the gauge with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Recalibration:** If accuracy is critical and the gauge is subjected to harsh conditions, periodic recalibration by a qualified technician may be necessary.
- **Inspection:** Regularly inspect the pressure connections for signs of wear or leaks.

7. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Needle does not return to zero	Zero adjustment needed; debris in sensing lines; gauge not level	Adjust zero screw; clear lines; ensure level mounting
Inaccurate readings	Leaks in connections; gauge damaged; incorrect installation	Check for leaks; replace gauge if damaged; verify installation
No needle movement	No pressure applied; blocked sensing lines; severe damage	Verify pressure source; clear lines; replace gauge

8. SPECIFICATIONS

Attribute	Value
Product Dimensions	0.31 x 0.31 x 0.24 inches; 3.02 Pounds
Item Model Number	2008
National Stock Number	6685-00-717-8895
Manufacturer	DWYER
Max Pressure	15 PSIG (100 kPa)
Max Temperature	140 °F (60 °C)
Accuracy	2%

Attribute	Value
Connection Thread	NPT 1/8 Inch Thread

9. WARRANTY INFORMATION

Dwyer Instruments, Inc. products are warranted to be free from defects in material and workmanship for a period of one year from the date of shipment. This warranty does not cover damage due to improper installation, misuse, abuse, or normal wear and tear. For specific warranty claims, please contact Dwyer customer support.

10. SUPPORT AND CONTACT

For technical assistance, troubleshooting, or to inquire about replacement parts, please contact Dwyer Instruments, Inc. customer support. Refer to the official Dwyer website for the most current contact information and additional resources.

Website: www.dwyer-inst.com

© 2024 Dwyer Instruments, Inc. All rights reserved.

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

you@example.com

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