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Dwyer 6846269

Dwyer Magnehelic Differential Pressure Gage

Model 2015: 0-15" w.c. Instruction Manual

Introduction

The Dwyer Magnehelic Differential Pressure Gage, Model 2015, is a highly reliable and accurate instrument designed for measuring low air or gas pressures. This manual provides essential information for the proper setup, operation, and maintenance of your Magnehelic gage to ensure optimal performance and longevity. It is engineered to measure positive, negative, or differential pressures in various industrial and scientific applications.
The gauge's robust construction and precision components ensure consistent and accurate readings. Its design eliminates the need for manometer fluid, simplifying operation and maintenance. Please read this manual thoroughly before installation and use.

Package Contents

- Dwyer Magnehelic Differential Pressure Gage (Model 2015)
- Two 1/8 inch NPT plugs
- Two 1/8 inch rubber tubing adapters
- Three mounting adapters with screws

Setup and Installation

Proper installation is crucial for accurate readings and the longevity of the Magnehelic gage. Follow these guidelines carefully:

Mounting Orientation

The standard mounting orientation for the Magnehelic gage is with the diaphragm in a vertical position. This ensures the most accurate readings. If other mounting orientations are required, please consult the manufacturer for specific guidance.

Process Connections

The gage features 1/8" female NPT duplicate high and low pressure taps. One pair of taps is located on the side, and another pair is on the back. Connect your pressure lines to the appropriate taps using the provided 1/8 inch NPT plugs

and rubber tubing adapters as needed. Ensure all connections are secure and leak-free to prevent inaccurate readings.



Figure 1: Front view of the Magnehelic Gage, displaying the 0-15 inches of water column scale.



Figure 2: Rear view of the Magnehelic Gage, illustrating the various connection points and mounting options.

Operating Instructions

The Magnehelic gage is designed for straightforward operation. Once properly installed, it provides immediate and accurate pressure readings.

Reading the Gage

The large, easy-to-read 4 inch (102 mm) dial displays the pressure in inches of water column (w.c.). The red pointer indicates the current pressure differential. Ensure the gage is stable before taking a reading.

Zero Adjustment

A zero adjustment screw is conveniently located in the plastic cover of the gage. This screw allows for easy calibration to ensure the pointer rests at zero when no pressure is applied. It is accessible without removing the cover. Periodically check and adjust the zero point to maintain accuracy.

Maintenance

The Dwyer Magnehelic gage is built for durability and requires minimal maintenance. However, regular checks can help ensure its continued accuracy and performance.

- **Cleaning:** Keep the exterior of the gage clean. Use a soft, damp cloth to wipe away dust or debris. Avoid using harsh chemicals or abrasive cleaners that could damage the housing or dial.
- **Connection Integrity:** Periodically inspect all pressure connections for signs of wear, leaks, or damage. Ensure they remain tight and secure.
- **Environmental Conditions:** While the gage is rugged, avoid exposing it to extreme temperatures or excessive vibration beyond its specified limits.
- **Zero Check:** Regularly perform the zero adjustment as described in the Operating Instructions to ensure the gage is properly calibrated.

Troubleshooting

If you encounter issues with your Magnehelic gage, consider the following common troubleshooting steps:

- **No Reading or Incorrect Reading:**
  - Verify that all pressure connections are secure and free of leaks.
  - Ensure the correct pressure tap (high or low) is connected to the appropriate pressure source.
  - Check for any blockages in the pressure lines.
  - Perform a zero adjustment to ensure the gage is calibrated.
- **Pointer Jumps or Fluctuates:**
  - This may indicate unstable pressure in the system being measured.
  - Check for excessive vibration near the gage.
- **Physical Damage:**
  - Inspect the gage for any visible signs of damage from drops or impacts.
  - If the dial or housing is cracked, the gage may need replacement or professional repair.

If problems persist after attempting these steps, contact Dwyer Instruments, Inc. customer support for further assistance.

Specifications

Feature	Specification
Model Number	2015 (Item model number: 6846269)
Service	Air and non-combustible, compatible gases (Natural Gas option available)
Pressure Limits	-20 in Hg. to 15 psig
Temperature Limits	20 to 140°F (-6.67 to 60°C)
Mounting Orientation	Diaphragm in vertical position (consult factory for others)
Process Connections	1/8" female NPT duplicate high and low pressure taps (one pair side, one pair back)

Feature	Specification
Dial Size	4 inch (102 mm)
Product Dimensions (L x W x H)	6 x 3.8 x 6.8 inches
Item Weight	1.2 Pounds
Material	Plastic, Metal, Rubber
Manufacturer	Dwyer Instruments, Inc.
Country of Origin	USA

Warranty and Support

Specific warranty details for the Dwyer Magnehelic Differential Pressure Gage, Model 2015, are not provided within this manual. For information regarding product warranty, please refer to the official Dwyer Instruments, Inc. website or contact their customer service directly.

For technical support, troubleshooting assistance beyond what is covered in this manual, or inquiries about replacement parts, please contact Dwyer Instruments, Inc. customer support. Have your product model number (2015) and any relevant purchase information ready when contacting support.

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