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Dwyer RMB-55

Dwyer® Rate-Master® Flowmeter RMB-55 User Manual

Model: RMB-55

Introduction

The Dwyer® Rate-Master® Flowmeter, Model RMB-55, is a direct-reading precision flowmeter designed for general use. It features a durable polycarbonate body and provides accurate and repeatable readings for compatible gases and liquids. This manual provides essential information for the proper installation, operation, and maintenance of your flowmeter.

Product Features

- Direct reading scales for easy measurement.
- Brushed aluminum scales with epoxy coating for durability.
- Integral flow guides to stabilize the float.
- Highly visible float against a white background.
- Injection-molded polycarbonate plastic body for shatter-proof performance.
- Stainless steel backbone with welded pipe thread inserts for robust mounting.
- Suitable for through-panel or surface mounting.
- Temperature Limit: 130°F (54°C).
- Pressure Limit: 100 psi (6.9 bar).
- Process Connection: 1/4" female NPT.
- Service: Compatible gases and liquids.

Setup and Installation

The Rate-Master® Flowmeter can be installed either through-panel or surface mounted. All necessary mounting hardware and detailed instructions are included with the product.

Mounting Options:

1. **Through-Panel Mounting:** For a flush appearance, the flowmeter can be mounted through a panel cutout. The

bezel automatically positions the instrument at the correct depth.

2. **Surface Mounting:** The unit can be surface mounted on a panel using the tapped holes in the stainless steel backbone. It can also be held in place by the piping connections.

Connection:

Ensure proper connection to your system using the 1/4" female NPT process connections. The welded pipe thread inserts in the backbone are designed to absorb piping torque, preventing damage to the flowmeter body.



Image: Dwyer Rate-Master Flowmeter RMB-55. This image displays the clear polycarbonate body of the flowmeter, with the internal scale marked for SCFH (Standard Cubic Feet per Hour) of air. The float is visible within the tube, indicating a reading. The Dwyer logo is at the top.

Operating Instructions

The Dwyer® Rate-Master® Flowmeter provides direct readings, eliminating the need for complex conversions. To operate, ensure the flowmeter is correctly installed and connected to the system.

- **Reading the Flow:** Observe the position of the float against the graduated scale. The top of the float indicates the flow rate.
- **Scale Visibility:** The scales are clearly marked on both sides of the indicating tube, and the float is highly visible against a white background for easy reading.
- **Float Stability:** Special integral flow guides ensure the float remains stable and does not wander, providing accurate and repeatable measurements.

Maintenance

The Dwyer® Rate-Master® Flowmeter is designed for minimal maintenance. Regular inspection can help ensure continued accurate performance.

- **Cleaning:** Periodically inspect the flowmeter for any accumulation of debris or foreign matter within the tube. If cleaning is necessary, use a mild soap solution and soft cloth. Avoid abrasive cleaners or solvents that could damage the polycarbonate body.
- **Inspection:** Check all connections for leaks. Ensure the flowmeter body is free from cracks or damage.
- **Storage:** If storing the flowmeter, ensure it is clean and dry, and store in a protected environment within its specified temperature limits.

Troubleshooting

This section provides guidance for common issues you might encounter with your flowmeter.

Problem	Possible Cause	Solution
Inaccurate Readings	Incorrect installation orientation. Debris in the flow tube. Float sticking. Exceeding pressure/temperature limits.	Verify vertical installation. Clean the flow tube. Inspect float for damage or obstruction. Ensure operating conditions are within specified limits.
No Flow Indication	No flow through the system. Blocked inlet/outlet.	Check system flow. Inspect connections and piping for blockages.
Leaks at Connections	Improperly tightened connections. Damaged NPT threads.	Ensure connections are tightened securely, but do not overtighten. Inspect threads for damage; replace if necessary.

Specifications

Parameter	Value
Model	RMB-55
Accuracy	3%
Flow Range	40-400 SCFH air
Body Material	Polycarbonate (PC)
Temperature Limit	130°F (54°C)
Pressure Limit	100 psi (6.9 bar)
Process Connection	1/4" female NPT
Service	Compatible gases and liquids
Package Dimensions	9 x 9 x 3 inches; 13 ounces
Manufacturer	Dwyer Instruments, Inc.

Warranty and Support

For information regarding product warranty, technical support, or service, please contact Dwyer Instruments, Inc. directly. Refer to the official Dwyer website or the documentation included with your purchase for the most current contact information and warranty terms.
Manufacturer: Dwyer Instruments, Inc.

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