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AUNMAS LZM-15T

Instruction Manual

AUNMAS PANEL TYPE FLOWMETER LZM-15T

1. Product Overview

The AUNMAS LZM-15T Panel Type Flowmeter is designed for accurate measurement and control of liquid medium flow rates. Its transparent acrylic construction ensures clear visibility of the flow, making it suitable for various industrial and scientific applications.

Key features include:

- Precise measurement and control of liquid medium flow.
- Measurement range of 0.2-2.0 GPM (1-7 LPM) with 4% accuracy.
- Clear panel type design for easy data reading.
- Durable transparent acrylic material for long-term use.
- Easy installation with 1/2in male and 1/4in female thread interfaces.



Figure 1: Overview of the AUNMAS LZM-15T Panel Type Flowmeter. This image shows the transparent body, the flow scale, the adjustable knob, and the threaded inlet/outlet connections.

2. Safety Information

Please read and understand all instructions before installing or operating the flowmeter. Failure to follow these guidelines may result in damage to the device or injury.

- **Pressure and Temperature Limits:** Never exceed the specified pressure and temperature limits for this device. Refer to the Technical Specifications section for details.
- **Medium Compatibility:** Ensure the liquid medium being measured is compatible with the flowmeter's acrylic and metal components.
- **Proper Installation:** Install the flowmeter securely and according to the instructions to prevent leaks or disconnections.
- **Handling:** Handle the device with care to avoid physical damage to the transparent body or internal components.



Figure 2: Close-up view of the warning label on the flowmeter, emphasizing the importance of reading instructions and adhering to pressure/temperature limits.

3. Setup and Installation

The LZM-15T flowmeter is designed for panel mounting and easy integration into existing liquid systems.

1. **Prepare the Installation Site:** Identify a suitable location for panel mounting, ensuring easy access for reading and maintenance.
2. **Connect Inlet/Outlet:** The flowmeter features a 1/2in male thread for the inlet and a 1/4in female thread for the outlet. Connect your PVC pipes or other compatible plumbing using appropriate sealants (e.g., PTFE tape) to ensure a leak-free connection. Ensure the flow direction matches the arrow on the flowmeter body, if present.
3. **Secure Mounting:** Secure the flowmeter to the panel using the designated mounting points. Ensure it is vertically aligned for accurate readings.
4. **System Flush (Optional but Recommended):** Before final operation, it is advisable to flush the system to remove any debris that could affect flowmeter accuracy or cause damage.



Figure 3: Angled view of the flowmeter, highlighting the 1/2in male and 1/4in female threaded connections for pipe integration.

4. Operation

Once installed, the flowmeter provides real-time flow rate readings for liquid mediums.

1. **Initiate Flow:** Begin the flow of the liquid medium through the system.
2. **Read the Scale:** The internal float will rise in proportion to the flow rate. Read the flow rate at the widest part of the float against the GPM (Gallons Per Minute) or LPM (Liters Per Minute) scale.
3. **Adjust Flow (if applicable):** If your system allows, use the adjustable knob at the bottom of the flowmeter to fine-tune the flow rate as needed. Turning the knob clockwise typically restricts flow, while counter-clockwise increases it.
4. **Monitoring:** Continuously monitor the flow rate to ensure it remains within desired parameters.



Figure 4: Front view of the flowmeter, clearly showing the GPM (Gallons Per Minute) and LPM (Liters Per Minute) scales for accurate flow rate measurement.

5. Maintenance

Regular maintenance ensures the longevity and accuracy of your flowmeter.

- **Cleaning:** Periodically inspect the transparent body for any buildup or discoloration. If necessary, disconnect the flowmeter from the system and gently clean the interior and exterior with a soft cloth and mild, non-abrasive cleaner. Avoid harsh chemicals that could damage the acrylic.
- **Inspection:** Check connections regularly for any signs of leaks or wear. Ensure the mounting remains secure.
- **Storage:** If storing the flowmeter for an extended period, ensure it is clean, dry, and stored in a cool, dry place away from direct sunlight and extreme temperatures.

6. Troubleshooting

This section addresses common issues you might encounter with your flowmeter.

Problem	Possible Cause	Solution
No flow reading / Float stuck	No liquid flow; Debris inside; Incorrect installation (e.g., not vertical).	Verify liquid supply; Disconnect and clean the flowmeter; Reinstall correctly, ensuring vertical alignment.
Inaccurate readings	Air bubbles in the system; Debris affecting float movement; Incorrect calibration (unlikely for this model); Not installed vertically.	Bleed air from the system; Clean the flowmeter; Ensure vertical installation.
Leaks at connections	Improperly sealed threads; Damaged threads; Overtightened/undertightened connections.	Reapply thread sealant (e.g., PTFE tape); Inspect threads for damage; Adjust tightening torque.

7. Technical Specifications

Specification	Detail
Model	LZM-15T
Applicable Medium	Liquid
Type	Panel Type
Measurement Range	0.2-2.0 GPM (Gallons Per Minute) / 1-7 LPM (Liters Per Minute)
Interface Thread Specifications	1/2in Male Thread (Inlet) and 1/4in Female Thread (Outlet)
Accuracy Class	4%
Material	Transparent Acrylic
Application	Measurement and control of liquid medium flow rate
Package Dimensions	7.24 x 3.74 x 1.69 inches
Weight	10.41 ounces
Manufacturer	AUNMAS

8. Warranty and Customer Support

AUNMAS products are manufactured to high-quality standards. For any questions regarding the operation, maintenance, or troubleshooting of your LZM-15T Panel Type Flowmeter, please contact AUNMAS customer support.

Please refer to your purchase documentation or the AUNMAS official website for specific warranty terms and contact information.

Note: Pay attention to correct operation as mentioned in the product information.

