

Gas mixing made easy.

Create precision, on-demand gas mixtures
with flow or pressure priority



MXM

MXM Gas Mixers A customizable platform built for almost any gas mixing application

Combining the power of Alicat Scientific’s high-speed ΔP -based mass flow controllers and Fusion Flow’s proprietary MixModule technology, the MXM gas mixing platform provides real-time control of pressure or flow while generating gas mixtures with $\pm 0.6\%$ accuracy.* Modern IoT features, advanced automation, verbose logging, and three distinct form factors allows MXM to seamlessly fit into almost any process requirements.

Turnkey

A plug-and-play gas mixing lab in a box. The internally housed MFCs are mounted to a stainless steel modular manifold with all ports and connections facing the rear.

- ❖ 2 - 6 Gas Inputs
- ❖ 100 SCCM - 100 SLPM Full-scale per channel
- ❖ 9.2 x 14.0 x 14.2" Space-saving form factor



Benchtop

Built for applications requiring more than six feed sources and/or higher per-channel flow rates. Plumb the MFCs externally to easily integrate with existing process requirements.

- ❖ 2 - 10 Gas Inputs
- ❖ 100 SCCM - 5000 SLPM Full-scale per channel
- ❖ 9.2 x 11.7 x 7.3" Ultra-compact form factor

Rackmount

An industrial form factor that includes all the same features and capabilities of the Benchtop MXM in a 19" 4U rack space.



* In ideal conditions - dependent on flow rate, back-pressure, and gas species



Research & Development

MXM's various modes of gas delivery, combined with the excellent turndown ratios of the Alicat mass flow controllers can support an entire laboratory's needs for precise, constant gas mixtures. Accelerate research and development while minimizing operational costs and wasted time.

Gas Sensor Calibration

Bio Processes

Materials Engineering

Glove Box Atmospheres

Fuel Cell Testing

Hydrogen in Natural Gas

Industrial Process Control

MXM can be designed and configured for both continuous and intermittent gas mixing operations for larger scale processes. Gas recipes can be changed on the fly to accommodate different process requirements, or be programmed to react to external inputs.

Welding Gas

Metallurgical Furnace Sheath Gas

Glass Fiber Manufacturing

Surface Coating

Gas Dilution / Division

Modified Atmosphere Packaging

Laser Gas



Created as an in-house division of Alicat Scientific, Fusion Flow Technologies has been providing turn-key products to customers seeking all-in-one gas mixing solutions since 2016.

Exclusive use of Alicat's high-speed mass flow and pressure instruments ensures the Fusion Flow brand will pass along the expected precision control and class leading accuracy that Alicat's user base demands. Fusion Flow's flagship offering is the MXM custom gas mixing platform which is based on Alicat's proprietary MixModule architecture.

Each MXM system is custom-engineered for the application in close cooperation with the end user. Fusion Flow operates with a high level of pre- and post-sale support, providing the best "out of the box" solution in addition to fostering a lasting technological partnership.

Ready to simplify your gas mixing? Let's talk.



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