Mass Flow Controller

Responsive and stable control in 30 ms

Fast • Repeatable • Stable

High-flow controllers feature frictionless Rolamite valves.

The Fastest Flow Controller Company in the World!

alicat.com/mc
Mass Flow Controllers

Hit the mark every time! Control flows with rock-solid stability and responsiveness.

Making You Faster

- 30 ms control response: stills upstream fluctuations.
- Accessible PID valve tuning for best speed and stability.
- Custom valve orifice sizes: yields full-range stability.
- Control mass flow, vol. flow or pressure with one device.
- No warm-up: ready to control process flows in one second.

Quick Specs

Accuracy: 0.6% of reading on most flow instruments (NIST-traceable).
Linear range: 0.01-100% of full scale.
Digital and analog outputs in multiple formats.
All flow data visible on one screen (setpoint, mass flow, vol. flow, pressure, temperature).
Stand-alone unit: no need for computer or PLC.
Lifetime warranty gives you peace of mind.

Tailored for You

**MCW** Low Pressure Drop
Control flows near atmospheric pressure. Max range: 0-500 slpm.

**MCE/V** SEMI Compatible
Control better with our SEMI compatible MCE and MCV. Max range: 0-20 slpm.

**MCS** Anti-Corrosive
Withstand corrosion caused by aggressive gases. All ranges.

**LC** Liquid Flows
Control liquid flows 100-ms control response time. Available in ranges to 0-5 lpm.

COMMON OPTIONS:

Downstream Valve optimizes control in vacuum conditions or backpressure applications.
Precision Dispensing Package relies on our fast valves to dispense metered amounts of fluid.
CSA Class 1 Div 2 (ATEX Zone 2) Classification permits operation in hazardous environments.
Backlit Color Display shines in low lighting.
Industrial communications: EtherNet/IP, DeviceNet, PROFIBUS, or Modbus

Sample Application

Gas Sparging for pH Control

Control mass flow rates over a wide flow range with rapid adjustments to accommodate changing flow requirements. Digital feedback from PLC or PC allows real-time changes to the flow rate setpoint to maintain optimal process conditions.

See the video!