Mass Flow Controller

Responsive and stable control in 50 ms

High-flow controllers feature frictionless Rolamite valves.

Fast • Repeatable • Stable

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
Control flows 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.

Quick Specs
- **Accuracy:** 0.8% of the reading (0.4% optional) + 0.2% full-scale repeatability (NIST-traceable).
- **Linear range:** 0.5-100% of full scale (200:1).
- **Multi-gas calibration:** 98-130 gases preloaded, plus COMPOSER™ gas composition firmware.
- **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.

**MC** 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!