

Mass Flow Controller

Responsive and stable control in 30 ms

High-flow controllers feature frictionless Rolamite valves.



Fast • Repeatable • Stable



The Fastest Flow Controller Company in the World!

MCW Series
with low pressure drop



MCE Series
for SEMI apps



MCV Series
for SEMI or vacuum apps



MCS Series
for aggressive gases



See the video!



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.
- 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.

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

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

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.

