M-Series Mass Flow Meters and Controllers

DIFFERENTIAL PRESSURE-BASED MEASUREMENT AND CONTROL OF GAS FLOWS



NIST-traceable accuracy up to ±0.5% of reading

No warm-up required

98+ pre-loaded gas calibrations

5 millisecond response times





Accurate. Multivariate. Intuitive.

M-Series Mass Flow Meters and Controllers

MONITOR OR CONTROL GASES EVEN IN CHANGING PROCESS CONDITIONS

Quick Specifications:

Mass Flow Ranges:

0.5 SCCM-10,000 SLPM

Accuracy:

Standard: $\pm 0.6\%$ of reading High: $\pm 0.5\%$ of reading

Measurement Range:

0.01-100% of full scale

Response Time:

10 ms measurement response; 30 ms control response

Multi-gas Calibration:

98+ pre-loaded gases

Repeatability:

Greater of $\pm 0.1\%$ of reading or $\pm 0.02\%$ of full scale

Communications:

Analog, RS–232, RS–485, DeviceNet, EtherCAT, EtherNet/IP, TCP/IP, Modbus RTU, PROFIBUS, PROFINET, IO-Link



M/MC Meter or Controller

High-accuracy, multivariate flow measurement or control in real time.



MB Portable Meter

Easily verify flow anywhere with an 18 hour rechargeable battery and an intuitive interface.



MW/MCW Low Pressure Drop

Measure flow readings near atmospheric pressure with pressure drops as low as 0.07 PSID (4.8 mbarD).

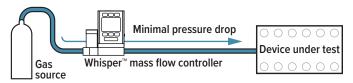


MCV Vacuum Control

Protect your vacuum process with a pneumatic shutoff valve on a controller built for flow or pressure control.

Fast and Accurate Leak Testing

A single Whisper multivariate controller is able to maintain a constant pressure in the device under test (DUT) while providing accurate, real-time mass and volumetric flow readings. When the DUT is subjected to a constant pressure within the closed system, any resulting flow is a direct measure of the DUT's leakage.



Easy Verification and Calibration

Quickly integrate an Alicat into test stands for fast and accurate verification without any warm-up time. For in-field calibrations, a portable, battery-powered flow meter can be easily added into a flow line at any point for rapid system verification.



