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.

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MONITOR OR CONTROL GASES EVEN IN CHANGING PROCESS CONDITIONS

Quick Specifications:

Mass Flow Ranges: 0.5 SCCM-5000 SLPM

Accuracy: Standard: ±0.6% of reading High: ±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,

DeviceNet, EtherCAT, EtherNet/IP TCP/IP, Modbus RTU, PROFIBUS, PROFINET



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.





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