



Mass Flow Meter

One Instrument... 30 Gases



Apex MFM in a Glance

The Apex Mass Flow Meters are laminar flow meters that use differential pressure measurements within the known volume to determine flow rates. Unlike Thermal Mass Flow Controllers, Apex MFMs have ten millisecond reaction time, no significant warmup time, and can measure multiple gases with one controller, among other advantages. Gone are the times when one device measured one gas species.

Common Applications

Research and Development
Sputtering
Thin Film Deposition
Chemical Vapor Deposition
Plasma Production
Replacement for Valve Control
Vacuum Venting and Gassing
Fuel Cell Systems
Nitrogen Blanketing
Shaping Air in Paint Booths

Why we Stand Out

- ◆ Flexibility of 30 selectable on-board gases
- ◆ Fast 10 millisecond response
- ◆ Pinpoint accuracy at 0.2% Full Scale and 0.8% Reading
- ◆ 200-1 Turndown Ratio allows lower accurate flow readings
- ◆ Flows from 0.5 SCCM to 3000 SLPM Full Scale
- ◆ Compatible with FlowVisionSC download on Windows
- ◆ No additional rack mount power or display supplies needed
- ◆ All units come with RS-232 and all Analog Communication
- ◆ Multi-Drop made easy with the BB9 Breakout Box

Technical Information

Accuracy	0.8% of reading / 0.2% of Full Scale
Repeatability	0.2% at Full Scale
Operating Range	1-200 % Measure and Control
Response Time	10 Milliseconds
Standard Conditions	25°C and 14.696 PSIA (STP)
Operating Temp	-10°C to +50°
Humidity Range	Non-Condensing (0-100%)
Flow Rate	128% Measurable Full Scale
Maximum Pressure	145 PSIG
Input / Output Signal	RS-232 Serial and 0-5 Vdc
Input / Output 2 nd	0-5 Vdc; 0-10 Vdc; 4-20 mA
Electrical Connections	8 Pin Mini Din (6 Pin Industrial Option)

Dimensions	Connections
≤50 SCCM	10-32 UNF (Euro M-5)
50 SCCM ≤ 20 SLPM	1/8" NPT Female
20 SLPM ≤ 100 SLPM	1/4" NPT Female
100 SLPM ≤ 250 SLPM	1/2" NPT Female
> 250 SLPM ≤ 2000 SLPM	3/4" NPT Female

Accessories

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Additions

- Local Set Point Module
- Remote Digital Display
- Assortment of Connecting Cables
- Portable Batteries and Power Cords
- FlowVision

- Totalizer
- Additional Fittings
- Orifice Sizing
- Gas Blend Calibrations
- Bi-Directional Flow Calibration
- 0.4% of Reading, High Accuracy Option



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