

Mass Flow Meter

One Instrument... Over 100 Gases



Why we Stand Out

- ◆ Flexibility of 117+ selectable on-board gases
- ◆ Lifetime Warranty with calibrations
- ◆ 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 10000 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
- ◆ Multiple unit control 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
Digital Options	RS 232; RS 485; Modbus; PROFIBUS
Analog Options	0-5 Vdc; 1-5Vdc; 0-10 Vdc; 4-20 mA
Electrical Connections	8 Pin, 9 Pin, 15 Pin, 6 Pin Industrial

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.

See page XVI for all the potential gases you can flow with 1 unit.

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

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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