



**Aggressive Gas Mass Flow Meter**  
One Instrument... Over 100 Gases



**Apex MFM in a Glance**

The Apex Aggressive Gas Mass Flow Meters are laminar flow meters that use differential pressure measurements within the known volume to determine flow rates. The Aggressive Gas Meters are compatible with Ammonia, Hydrogen Sulfide, Nitric Oxide, Nitrogen Trifluoride, Propylene, Sulfur Dioxide, and Chlorine Gas along with the 110 on board gases offered with the standard Apex MFM. Contact for additional aggressive gases available.

**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 130+ selectable on-board gases
- ◆ Fast 10 millisecond response
- ◆ Pinpoint accuracy at 0.2% Full Scale and 0.8% Reading
- ◆ 100-1 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
- ◆ 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	1-100 % 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 <sup>nd</sup>	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

**APEX**  
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**Accessories & Additions**

- Local Set Point Module
- Remote Digital Display
- Assortment of Connecting Cables
- Portable Batteries and Power Cords
- FlowVision
- Add Gases: Nitrogen Dioxide, Silane, Trans-Butene, and Nitrogen Dioxide
- Totalizer
- Additional Fittings
- Orifice Sizing
- Gas Blend Calibrations
- Bi-Directional Flow Calibration
- 0.4% of Reading, High Accuracy Option