



APEX

Aggressive Gas Mass Flow Controllers

One Instrument... Over 100 Gases



Why we Stand Out

- ◆ Flexibility of 130+ selectable on-board gases
- ◆ Lifetime Warranty with calibrations
- ◆ Fast 100 millisecond valve control
- ◆ 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
- ◆ 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	100 Milliseconds
Standard Conditions	25°C and 14.696 PSIA (STP)
Operating Temp	-10°C to +50°
Humidity Range	Non-Condensing (0-100%)
Flow Rate	102.4% Controllable 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 MFC in a Glance

The Apex Mass Flow Controllers are laminar flow controllers that use differential pressure measurements within the known volume coupled with a proportional valve to control flow rates. The Aggressive Gas Flow Controllers are compatible with Ammonia, Hydrogen Sulfide, Nitric Oxide, Nitrogen Trifluoride, Propylene, along with the 110 on board gases offered with the standard Apex MFC.

See page XVI for all the potential gases you can flow with 1 aggressive gas 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



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Accessories

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Additions

- Local Set Point Module
- Remote Digital Display
- Assortment of Connecting Cables
- Simple Power Cords
- FlowVision
- Upstream valve for Vacuum Applications

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