APEX

VacuumMass Flow Controllers
One Instrument... Over 110 Gases

Why we Stand Out

- Flexibility of 110+ 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 20 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

Apex MFC in a Glance

The Apex Vacuum 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. Unlike Thermal Mass Flow Controllers, Apex MFCs have ten millisecond reaction time, no significant warmup time, and can measure multiple gases with one controller, among other advantages. One MFC works across 110+ gases.

Common Applications

Research and Development
Sputtering
Thin Film Deposition
Chemical Vapor Deposition
Plasma Production
Vacuum Coating
PECVD
Thermal Evaporation
Electron Beam Evaporation

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
Gas Connection	1/4" VCR Male

Flow Range	Pressure Drop
0.5 SCCM-500SCCM	1.0 psid
1 SLPM	1.5 psid
2 SLPM	3.0 psid
5 SLPM	2.0 psid
10 SLPM	5.5 psid
20 SLPM	20.0 psid

Apex Vacuum MFC Dimensions 5.3"Hx4.9"Wx 1.5"D

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