



APEX

Aggressive Gas Mass Flow Controllers

One Instrument... Over 100 Gases



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. Contact for additional aggressive gases

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 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 2000 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 |
| 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 |



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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