



Apex MFM in a Glance

The Apex Low Pressure Drop Mass Flow Meters are laminar flow gas meters that use differential pressure measurements within the known volume to determine flow rates. With Pressure Drops as low as 0.06 PSID, the Low Pressure Drop Gas Flow Meters have all the advantages of the standard Apex Meters, but with the additional advantage of accurate flow measurement without the pressure gradient across the controller.

Common Applications

Research and Development
 Atmospheric Testing
 Environmental Air Sampling
 Expensive Gas Applications
 Leak Detection
 Thin Film Deposition
 Chemical Vapor Deposition
 Plasma Production
 Replacement for Valve Control
 Fuel Cell Systems



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Why we Stand Out

- ◆ Flexibility of 117+ 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

Pressure Drop	As low as 0.06 PSID
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	50 PSIG
Input / Output Signal	RS-232 Serial and 0-5 Vdc
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

Accessories

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Additions

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| <ul style="list-style-type: none"> - 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 | <ul style="list-style-type: none"> - Totalizer - Additional Fittings - Orifice Sizing - Gas Blend Calibrations - Bi-Directional Flow Calibration - 0.4% of Reading, High Accuracy Option |
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