

Low Pressure Drop Mass Flow Meters

One Instrument... Over 100 Gases



Why we Stand Out

- ◆ Flexibility of 117+ selectable on-board gases
- ◆ Lifetime Warranty with calibrations
- ◆ 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 |
| Signal Options | RS-232 , RS-485, 0-5 Vdc, 0-10 Vdc, 4-20 mA |
| Electrical Connections | 8 Pin, 9 Pin, 15 Pin, 6 Pin Industrial |

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.

See page XVI for all the potential gases you can flow with 1 unit.

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

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

&

Additions

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



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