Portable Mass Flow Meter
One Instrument... Over 100 Gases

Why we Stand Out

- Rechargeable Battery Powered and Portable
- Lifetime Warranty with calibrations
- Measure multiple systems with one unit
- Flexibility of 117+ selectable on-board gases
- Fast 10 millisecond response
- Pinpoint accuracy at 0.2% Full Scale and 0.8% Reading
- 200-1 Turndown Ratio allows lower accurate flow readings
- All functions of the standard Apex Flow Meter but portable
- No additional rack mount power or display supplies needed
- All units come with RS-232 and compatible with FlowVisionSC

Apex MFM in a Glance

The Apex Mass Flow Meters are laminar flow meters that use differential pressure measurements within the known volume to determine flow rates. With the Apex Portable Mass Flow Meter, get all the features of the standard Mass Flow Meter with the flexibility to move from system to system and circumvent the need to hard wire in your controller. No need to replace batteries, all units come with a 9vdc rechargeable battery.

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

Technical Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Accuracy</td>
<td>0.8% of reading / 0.2% of Full Scale</td>
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<tr>
<td>Repeatability</td>
<td>0.2% at Full Scale</td>
</tr>
<tr>
<td>Operating Range</td>
<td>1-200 % Measure and Control</td>
</tr>
<tr>
<td>Response Time</td>
<td>10 Milliseconds</td>
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<tr>
<td>Standard Conditions</td>
<td>25°C and 14.696 PSIA (STP)</td>
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<tr>
<td>Operating Temp</td>
<td>-10°C to +50°C</td>
</tr>
<tr>
<td>Humidity Range</td>
<td>Non-Condensing (0-100%)</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>128% Measurable Full Scale</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>145 PSIG</td>
</tr>
<tr>
<td>Digital Options</td>
<td>RS 232; RS 485; Modbus; PROFIBUS</td>
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<tr>
<td>Analog Options</td>
<td>0-5 Vdc; 1-5Vdc; 0-10 Vdc; 4-20 mA</td>
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<tr>
<td>Electrical Connections</td>
<td>8 Pin, 9 Pin, 15 Pin, 6 Pin Industrial</td>
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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
Furnace Flow Testing

Accessories & Additions

- Local Set Point Module
- Remote Digital Display
- Assortment of Connecting Cables
- Portable Batteries and Power Cords
- FlowVision

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