

Portable Mass Flow Meter

One Instrument... Over 100 Gases



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.

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

Why we Stand Out

- ◆ Rechargeable Battery Powered and Portable
- ◆ 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

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	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	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

Accessories

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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



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