

## Flow Leak Detection

One Instrument... Over 100 Gases



### Apex MFC in a Glance

The Apex Flow Leak Detection System uses Pressure Control along with Mass Flow Measurement to determine leak rates at known and controlled pressures. Using state of the art low pressure drop laminar technology, this unit can accurately find and quantify small leaks. With this technology, a user can find leak rates at multiple desired pressures as well as test with any of the 110 on-board gases choices with one device.

### Common Applications

Research and Development  
Water Cooling Systems  
Pipe Testing  
Chemical Plants  
Weld Testing  
Pressurized Leak Testing  
Refrigerant Lines

### Why we Stand Out

- ◆ Leak test with one of 110 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
- ◆ Digital Screen allows stand alone control
- ◆ 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
- ◆ 0.5 SCCM Leak Detector for small leak detection

### 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	50 PSIG (Higher Line Pressure Available)
Input / Output Signal	RS-232 Serial, PROFIBUS and 0-5 Vdc
Input / Output 2 <sup>nd</sup>	0-5 Vdc; 0-10 Vdc; 4-20 mA
Electrical Connections	8 Pin Mini Din (6 Pin Industrial Option)

Dimensions	Connections
≤20 SCCM	10-32 UNF (Euro M-5)
20 SCCM ≤ 2 SLPM	1/8" NPT Female
5 SLPM ≤ 20 SLPM	1/4" NPT Female
40 SLPM	1/2" NPT Female
50 SLPM ≤ 500 SLPM	3/4" NPT Female

### Accessories

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### Additions

- |                                   |   |
|-----------------------------------|---|
| - Local Set Point Module          | - Totalizer   |
| - Remote Digital Display          | - Additional Fittings   |
| - Assortment of Connecting Cables | - Orifice Sizing  |
| - Simple Power Cords              | - Gas Blend Calibrations                                      |
| - FlowVision                      | - Bi-Directional Flow Calibration                             |
| - TFT Color Display               | - 0.4% of Reading, High Accuracy Option for Larger Leak Tests |



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