



### Apex MFC in a Glance

The Apex Water Mass Flow Controllers and Meters are laminar flow devices that use differential pressure measurements within the known volume to measure and control water flow. The controllers use valve communications to control the water flow through the system. Use only DI and Distilled water with the Apex Water Flow Units to avoid particulate buildup or chemical degradation of the materials inside the device.

### Common Applications

Research and Development  
Water Cooling Systems  
Gas and Vapor Mixing  
Chemical Plants  
Serial Temperature Measurement  
Liquid Mixing  
Water Flow Totalization

### Why we Stand Out

- ◆ Temperature Measurement, Optional Pressure Measurement
- ◆ Fast 20 millisecond valve control
- ◆ Pinpoint accuracy at 2% Full Scale
- ◆ 50-1 Turndown Ratio allows lower accurate flow readings
- ◆ Flows from 0.5 CCM to 10 LPM 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
- ◆ Multi-Drop made easy with the BB9 Breakout Box

### Technical Information

Accuracy	2% of Full Scale
Repeatability	2% at Full Scale
Operating Range	2-100 % Measure and Control
Response Time	20 Milliseconds (Adjustable)
Standard Conditions	25°C and 14.696 PSIA (STP)
Operating Temp	+10°C to +50°
Warm-up Time	Less Than 1 Second
Flow Rate	102.4% Controllable Full Scale
Maximum Pressure	200 PSIG
Input / Output Signal	RS-232 Serial 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 / Pressure Drop
0.5 CCM ≤ 1 CCM	10-32 UNF (Euro M-5) / 2.0 PSID
2 SCCM ≤ 500 CCM	1/8" NPT Female / 2.0 PSID
1 LPM	1/8" NPT Female / 4.0 PSID
2 LPM	1/4" NPT Female / 4.0 PSID
5 LPM	1/4" NPT Female / 10.0 PSID
10 LPM	1/4" NPT Female / 20.0 PSID

### 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              | - Pressure Sensor          |
| - FlowVision                      | - External Pressure Sensor |



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