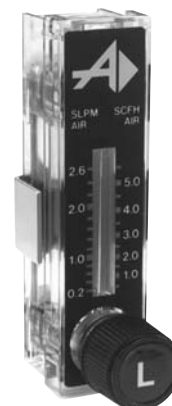


## Series 50PM Plastic, Flowmeters

The Series 50PM flowmeters are designed as a practical approach to low flow rate indication of noncorrosive gases or liquids at lowest possible cost. These flowmeters offer an economical means of measuring gas or liquid flow at low pressures where  $\pm 10\%$  accuracy is acceptable.

The metering tube for each flowmeter is molded directly into a clear, high impact - polycarbonate plastic body. A direct reading scale for air in both standard liters per minute (slpm) and standard cubic feet per hour (scfh) at 70°F and 14.7 psia is provided on the meter body. A unique valve design allows bubble-tight shutoff. An integral bezel and threaded mounting screw permits either flush or front panel mounting.

**Warning: This flowmeter is constructed of polycarbonate plastic. Make certain the gas you are using is compatible with the materials of construction. Injury to personnel or damage to equipment may result. See "Technical Information," page 178, for gas compatibility.**



Series 50PM Flowmeter

### Standard Features

- Single Piece Body and Tube Construction form the ribbed tube, bezel and integral float stops.
- Ribbed Tubes stabilize float and improve accuracy and readability.
- Large Numbers and Graduations enhance readability.
- Dual Scale allows flow rate to be read in standard liters per minute (slpm) and standard cubic feet per hour (scfh).
- Unique Valve Design allows bubble-tight shutoff.
- Integral Bezel and Threaded Mounting Screw permits either flush or front panel mounting.
- Metal Connection Inserts prevent damage from overtightening fittings.

### Specifications

Maximum Operating Pressure and Temperature: 100 psig at 130°F  
 Minimum Operating Temperature: 32°F  
 Accuracy:  $\pm 10\%$  of full scale from 10% to 100% of range  
 Repeatability: Within 1% of full scale  
 Tube Graduations: Standard liters per minute (slpm) and standard cubic feet per hour (scfh) of Air  
 Scale Length: 37 mm  
 Inlet and Outlet Connections:  $\frac{1}{8}$ " NPT female  
 Approximate Weight: 0.25 lb

### Materials of Construction

Body and Tube: Polycarbonate Plastic  
 Float: See Table I  
 Connection Fittings and Valve: Type 316 Stainless Steel  
 Seals: Viton®

Table I

Part No.	Float Material	Air Flow Rate Range at 70°F and 14.7 psia Actual Graduations	
		scfh	slpm
FM4491	Glass	0.3–3.0	0.15–1.5
FM4492	316 Stn. Stl.	0.5–5.5	0.25–2.5
FM4493	Glass	1.0–10.0	0.50–5.0
FM4494	316 Stn. Stl.	2.0–20.0	1.00–10.0
FM4495	Glass	5.0–50.0	2.50–25.0
FM4496	316 Stn. Stl.	10.0–100.0	5.00–50.0