



Bowman Industry & Manufacturing, L.L.C.

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BI-1000 Gas Mass Flow Meter

Patent Pending

Specifications (June 1, 2005)

2.0(s)ccm - 1500(S)LPM Gas Flow Ranges Aggressive and/or Inert Gasses (Menu Selectable)

Accuracy	+/- 1% Full Scale
Repeatability	+/- 0.50% Full Scale
Linearity	+/- 0.25%
Response Time (typical)	50 Milliseconds
Flow Units	Mass or Volumetric
Temperature Range	0 to 70 ° C
Temperature Coefficient	.05% / ° C
Turndown Ratio	50:1
Standard Conditions	25 ° C and 1 Atmosphere
Maximum Pressure	250 PSIG
Humidity Range	0-100% Non-Condensing
Supply Current	0.25 Amp With Back Lighting
Supply Voltage	15 VDC
Supply Voltage 4-20 mA output models	Loop Powered, No Supply Necessary
I/O Standard Signals	1 Digital Input - TTL/CMOS compatible 1 Analog Input - 0 to 5 VDC Equals Maximum Flow 1 Analog 0 to 5 VDC or 4 to 20 mA Output 1 RS232 Serial Port (19200 Baud Rate) 1 Dry Closure Relay Output (SPDT 0.5 amp DC)
I/O Optional Signals	Less than 3.5 W 2 Line x 16 Digit LCD-Back Lighting Membrane Touch Switch w/ Menu Driven Screens
Power Consumption	15 pin D-Sub High Density & 9 pin D-Sub
Indicating Display	3/8 inch NPT
Human Interface	PVC, Corroperm®, Viton®
Connector-Electrical	CPVC, 316 Stainless Steel, Kel-F®, Teflon®, Peek®
Connector-Mechanical	8"H X 6" W X 2"D
Wetted Materials-Standard	6"H X 4¼" W X 1"D
Wetted Materials-Optional	10.0 - 30.0 PSI
Dimensions Overall	(Consult Factory for Custom Pressure Drops From 1 to 100 psi)
Dimensions Enclosure	
Pressure Drop-Typical-Full Scale	

Other Features and Options

AC Operation	AC to DC Power Adapter
Cables (Kits) for Custom I/O Connection	Consult Factory
Totalizer Standard	Totalizes Flow Over Specified Time
Relay Output Standard	1 amp, Single Pole Double Throw, 5 vdc
Aggressive/Corrosive Medias	Most: Consult Factory
Field Change Orifice Kits	Available for all Ranges: Consult Factory
Fluid Connector Kits Optional	Assortment of Connectors for Plumbing Applications: Consult Factory
Pressure Drop Unit Customization	When Low Pressure Applications are Required

Specifications are subject to Change

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