



Bowman Industry & Manufacturing, L.L.C.

2200 North Wilmot Road, Tucson, Az 85712
Ph: (520) 722 - 6633 Fax: (520) 722 - 6611
email: info@bowmanindustry.com

BI-3000 Gas Mass Flow Controller

Specifications (June 1, 2005)

Patent Pending

2.0(s)ccm - 30(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	0.35 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 4.5 W 2 Line x 16 Digit LCD-Back Lighting Membrane Touch Switch w/ Menu Driven Screens 15 pin D-Sub High Density & 9 pin D-Sub 3/8 inch NPT PVC, Corroperm®, Viton® CPVC, 316 Stainless Steel, Kel-F®, Teflon®, Peek®
Power Consumption	8"H X 7 3/4" W X 2"D
Indicating Display	6 1/4"H X 4 1/4" W X 1 1/4"D and 3 1/4"H X 2 1/4" W X 1 1/4"D
Human Interface	10.0 - 30.0 PSI (Consult Factory for Custom Pressure Drops From 1 to 100 psi)
Connector-Electrical	
Connector-Mechanical	
Wetted Materials-Standard	
Wetted Materials-Optional	
Dimensions Overall	
Dimensions Enclosures	
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

Optional Upstream or Downstream Mounting of the Control Valve Assembly

Specifications are subject to Change

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