

MASS FLOW CONTROLLERS

MASS FLOW METERS

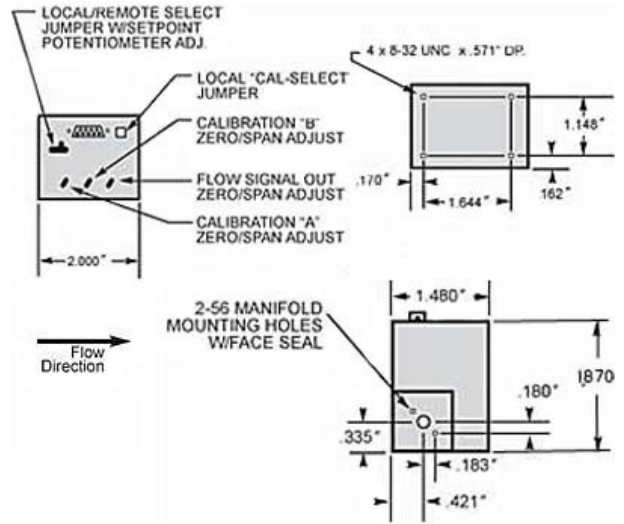
VACUUM & PRESSURE CONTROLLERS

CONFIGURABLE FEATURES

CUSTOM CONTROLLERS

FREE EVALUATION

PRINT as PDF



Specifications:

Performance:

Linearity
 Repeatability & Hysteresis
 Response Time
 (to within 1% of set point, Volume Dependant)
 Temperature Coefficient
 (Deviation from 21°C Cal Temp)
 Long Term Stability
 (7500 hours)

Analog

± 1.0% of Full Scale
 Range Dependant
 ± 0.35% FS
 40 msec
 0.06% / °C
 0.2% FS

Digital

± 0.4%
 ± 0.35% FS
 150 msec
 0.06% / °C Uncompensated
 0.005% / °C Compensated
 0.2%FS

Fluid Requirements:

Calibration Gas (Non-Corrosive)
 Flow Ranges
 Pressure Range
 Cal Pressure
 Internal Leakage
 External Leakage

Customer Specified
 Customer Specified
 0, 0-500sccm

Customer Specified
 Customer Specified
 0, 0-750 sccm

Customer Specified (0, Min to Max)
 0 PSI at Vcontrol < 1% FS
 Min at Vcontrol = 2% FS
 Max at Vcontrol = 100% FS
 10⁻⁵ sccm @1, 30 and 100 Psi (He)
 2 x 10⁻⁶ sccm (He)

Electrical Requirements:

Input Voltage (single supply)
 Power Consumption
 Control Voltage
 Digital Control
 Output Voltage

12, 15, 18, or 24 volts +10% - 3%
 1.5 Watts Maximum
 0-5 VDC, 1-5 VDC, 0-10 VDC, 1-10 VDC, or 4-20mA
 RS232, Digital Unit only
 0-5 VDC, 1-5 VDC, 0-10 VDC, 1-10 VDC

Environmental Requirements:

Operating Ambient Temp.
 Storage Temperature
 Humidity Range

0-50°C
 -40 - 70°C
 5% - 95% (Relative, non-condensing)
 Nominal Temperature 21°C ± 5°C

Mechanical Configuration:

Input/Output Ports
 Dimensions
 Weight

10-32 Threaded (Other sizes, consult factory)
 L: 2.0" W: 1.5" H: 1.85"
 5.4 oz

Construction (wetted materials):

Manifold
 O-Rings
 Valve Components
 Pressure Sensor

Nickel Plated Aluminum
 Fluorocarbon (Viton®), others at additional cost
 Brass 360, AISI 300 series, 430 FR Stainless Steel
 Poly Phenelene Sulfide, Glass, Silicon, Gold, Silicone Adhesive

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