

**MASS FLOW
CONTROLLERS**

**MASS FLOW
METERS**

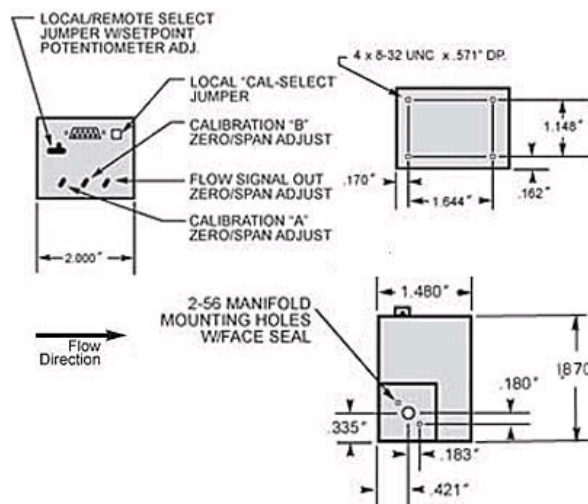
**VACUUM &
PRESSURE
CONTROLLERS**

**CONFIGURABLE
FEATURES**

**CUSTOM
CONTROLLERS**

**FREE
EVALUATION**

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Specifications:

Performance:

Linearity

Analog
 $\pm 3.0\%$ of Full Scale (Typical)
 Range Dependant
 $\pm 0.15\%$ FS
 40 msec
 0.09% / °C
 0.2% FS

Digital

$\pm 0.5\%$
 $\pm 0.15\%$ FS
 150 msec
 0.09% / °C Uncompensated
 0.005% / °C Compensated
 0.2% FS

Repeatability & Hysteresis

Response Time

(to within 1% of set point)

Temperature Coefficient

(Deviation from 21°C Cal Temp)

Long Term Stability

(7500 hours)

Fluid Requirements:

Calibration Gas (Non-Corrosive)

Flow Ranges

Customer Specified

Customer Specified

0, 0-500 sccm

Customer Specified

Customer Specified

0, 0-750 sccm

Pressure Range

Cal Pressure

Internal Leakage

External Leakage

0-100 Psi

25 Psi

10^{-5} sccm @ 1, 30 and 100 Psi (He)

2×10^{-6} sccm (He)

Electrical Requirements:

Input Voltage (single supply)

Power Consumption

Control Voltage

Digital Control

Output Voltage

12, 15, 18, or 24 volts $\pm 10\%$ - 3%

1.5 Watts Maximum

0-5 VDC, 1-5 VDC, or 4-20mA

RS232, Digital only

Customer Specified

Environmental Requirements:

Operating Ambient Temp.

Storage Temperature

Humidity Range

0-50°C

-40 - 70°C

5% - 95% (Relative, non-condensing)

Nominal Temperature 21°C $\pm 5^\circ$ 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

Nickel Plated Aluminum

Fluorocarbon (Viton®), others at additional cost

Brass 360, AISI 300 series, 430 FR Stainless Steel

Flow Sensor

Ceramic Flow Tube (non-out gassing), Silicon, Silicon Nitride, Gold, Aluminum Oxide Epoxy Sealant, Fluorocarbon (Viton®), Polythermide (100+ sccm MFC only)