ELECTRONIC MASS FLOWMETERS Series A820

DESCRIPTION

The Series A820 electronic mass flowmeters are compact, self-contained units designed to indicate the flow rate of gases. Unlike variable area meters, flow rates are unaffected by variations in temperature and pressure within specified limits. The mechanical layout of the design includes an LCD readout built into the top of the transducer. This readout module is tiltable over 90 degrees to provide optimum reading comfort. The readout is connected by a standard modular plug, and is readily removable and extended for remote reading installations. Units are available in aluminum or stainless steel.

FEATURES

- Rigid metal construction.
- Maximum operating pressure 1000 psig.
- NIST traceable calibration certification.
- Leak integrity 1 X 10⁻⁹ sccm helium.
- 0-5 VDC or 4-20mA signals.
- Built-in tiltable readout display in engineering units.
- Circuit protection.
- Totalizer option available.

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SPECIFICATIONS

\pm 1% of full scale, including linearity for gas temperatures of 59°F to 77°F and pressures of 5 to 60 psia
±0.5% of full scale
Generally 2 seconds to within $\pm 2\%$ of actual flow
0.15% of full scale/°C
0.01% of full scale/psi
0.04 to 3.23 psid depending on flow range
32° to 122°°F
Linear 0-5 VDC (1000 ohms min load impedance) or
4-20 mA (0-250 ohms loop resistance)
12 VDC; 200 mA of maximum
800 ms
Aluminum units: anodized aluminum, 316 SS, brass, Viton o-rings
Stainless steel units: 316 SS and Viton o-rings
No greater than + 15 degrees from horizontal to vertical:
Standard calibration is in horizontal position.
1/4" compression fittings
1 X 10 ⁻⁹ sccm of helium maximum to the outside environment
EN 55011 class, class B: EN50082-1