Series GFC Gas Mass Flow Controllers combine a straight tube sensor with a restrictor flow element to provide high accuracy and repeatability. Gas mass flow controllers utilize an electromagnetic valve and PID electronics to maintain continuous control by comparing measured sensor signal set to flow rates. Setpoints can be adjusted with local potentiometers or remotely via 0 to 5 VDC or 4 to 20 mA analog signal. Flow rates are virtually unaffected by temperature and pressure variations. Actual gas flow is displayed in engineering units on a 3-digit, 90° tiltable LCD readout. Units can be used with Series GFT Flow Totalizer for applications requiring totalization. Series GFC includes a NIST traceable certificate.

**Series GFC Gas Mass Flow Controllers**

**SPECIFICATIONS**

**Service:** Clean gases compatible with wetted parts.

**Wetted Materials:**
- GFC-1XXX: Anodized aluminum, brass, 316 SS and fluoroelastomer O-rings;
- GFC-2XXX: 316 SS and fluoroelastomer O-rings.

**Accuracy:** ±1.5% FS including linearity over 59 to 77°F (5 to 25°C) and 5 to 60 psia (0.35 to 4 bar).

**Repeatability:** ±0.5% of full-scale.

**Response Time:** 2 s to within ±2% of actual flow.

**Output:** Linear 0 to 5 VDC and 4 to 20 mA.

**Max. Particulate Size:** 5 microns.

**Temperature Limits:** 32 to 122°F (0 to 50°C).

**Power Supply:** ±12 VDC.

**Process Connections:**
- 1/4˝ compression fitting for flow rates ≤50 L/m;
- 3/8˝ for 100 and 200 L/m;
- 1/2˝ for 500 L/min;
- 3/4˝ for 1000 L/min.

**Pressure Limits:** 500 psig (34.5 bar).

**Leak Integrity:** 1 x 10⁻⁷ scs of helium.

**Display:** 90° tiltable, 3-1/2 digit.

**Agency Approvals:** CE.

**ACCESSORIES**

For Series GFC Gas Mass Flow Controllers
- Model GFC-110P, 110V Power Supply
- Model GFC-220PE, 220V Power Supply
- Model GFC-CBL1, 8’ cable with 15-pin connector
- Model GFC-CBL3, 3’ extension cable for LCD readout