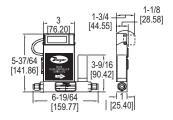
GAS MASS FLOW CONTROLLERS

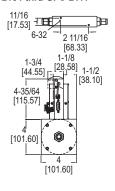
Flow Range Up to 1000 L/min, Pressures Up to 500 psi, NIST Traceable

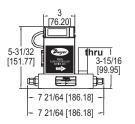




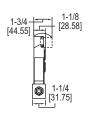


Model GFC-1101 thru GFC-1111 & GFC-2101 thru GFC-2111

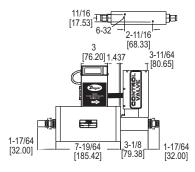




Model GFC-1130 thru GFC-1133 & GFC-2130 thru GFC-2133



Model GFC-1140 thru GFC-1142 & GFC-2140 thru GFC-2142



Model GFC-1143 thru GFC-1145 & GFC-2143 thru GFC-2145

The Series GFC Gas Mass Flow Controllers combine a straight tube sensor with a restrictor flow element. It is available for flow ranges up to 1000 L/min and offered in aluminum or 316 SS in 1/4", 3/8", 1/2" and 3/4" sizes.

FEATURES/BENEFITS

Provides high accuracy and repeatability
Flow rates are virtually unaffected by temperature and pressure variations

Utilizes an electromagnetic valve and PID electronics to maintain continuous control

by comparing measured sensor signal set to flow rates Set points can be adjusted with local potentiometers or remotely via 0 to 5 VDC or 4 to 20 mA analog signal

 Actual gas flow is displayed in engineering units on a 3-1/2 digit, 90° tiltable LCD readout

Can be used with Series GFT2 Flow Totalizer for applications requiring totalization

· NIST traceable certificate included

APPLICATIONS

Mass Flowmeters/

- Gas flow measurement
- Gas flow control
- Operating pumps and valves
- Process equipment
- Vacuum processes
- Glass and metal coating
- · Film deposition

SPECIFICATIONS

Service: Clean gases compatible with wetted parts.

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% FS including linearity over 59 to 77°F (5 to 25°C) and 5 to 60 psia (0.34 to 4 bar); Series GFC X143, X144, X145, ±1.5% FS.

Repeatability: ±0.25% FS.

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

Output: Linear 0-5 VDC and 4-20 mA.

May Particulate Size 5 microses

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: 1000 psig (68.9 bar); Series GFC-X143, X144, X145, 500 psig

Leak Integrity: 1 x 10-9 sccs of He. Display: 90° tiltable, 3-1/2 digit. Agency Approvals: CE.

MODEL CHART				
Aluminum Model	SS Model	Flow Range	Process Connector Compression Fitting	
GFC-1101* GFC-1102* GFC-1103* GFC-1104* GFC-1106* GFC-1106* GFC-1108* GFC-1131* GFC-1131* GFC-1131* GFC-1142* GFC-11443* GFC-1144* GFC-11445* GFC-1145*	GFC-2102* GFC-2103* GFC-2104* GFC-2105* GFC-2106* GFC-2107*	0 to 15 L/min 0 to 30 L/min 0 to 50 L/min 0 to 100 L/min 0 to 200 L/min	1/4" 1/4" 1/4" 1/4" 1/4" 1/4" 1/4" 1/4"	
*Specified flow ranges are for an equivalent flow of nitrogen at 70°F (21°C) @ 760 mm Hg				

ACCESSORIES		
Model	Description	
GFC-220PE	110 V power supply 220 V power supply	
GFC-CBL1 GFC-CBL3	8' cable with 15-pin connector 3' extension cable for LCD readout	

USA: California Proposition 65

△WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov