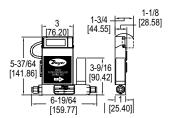
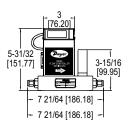
GAS MASS FLOW CONTROLLERS

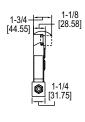
Flow Range Up to 1000 L/min, Pressures Up to 500 psi, NIST Traceable

CALIBRATION SERVICES AVAILABLE







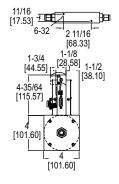


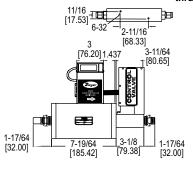
Model GFC-1101 thru GFC-1111 and GFC-2101 thru GFC-2111

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

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







Model GFC-1143 thru GFC-1145 and 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.

BENEFITS/FEATURES

Mass Flowmeters/

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 0-5 VDC or 4-20 mA analog signal

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

Can be used with Series GFT2 Flow Totalizer for applications requiring totalization
 NIST traceable certificate included

APPLICATIONS

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

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% 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: 3 to within ±2% of actual flow.

Response Time: 2 s to within ±2% of actual flow. Output: Linear 0-5 VDC and 4-20 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: 1000 psig (68.9 bar); Series GFC-X143, X144, X145, 500 psig (34.5 bar).

Leak Integrity: 1 x 10-9 sccs of He.

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

ACCESSORIES

MODEL CHART				
Aluminum Model	SS Model	Flow Range	Process Connector Compression Fitting	
GFC-1101*	GFC-2101*	0 to 10 mL/m	1/4"	
GFC-1102*	GFC-2102*	0 to 20 mL/m	1/4"	
GFC-1103*	GFC-2103*	0 to 50 mL/m	1/4″	
GFC-1104*	GFC-2104*		1/4″	
GFC-1105*	GFC-2105*	0 to 200 mL/m	1/4"	
GFC-1106* GFC-1107*		0 to 1000 mL/m	1/4″ 1/4″	
GFC-1108*	GFC-2108*		1/4″	
GFC-1109*	GFC-2109*		1/4″	
GFC-1111*	GFC-2111*		1/4″	
GFC-1131*	GFC-2131*		1/4″	
GFC-1133*	GFC-2133*	0 to 50 L/min	1/4"	
GFC-1142*		0 to 100 L/min	3/8"	
GFC-1143*	GFC-2143*	0 to 200 L/min	3/8"	
GFC-1144*	GFC-2144*	0 to 500 L/min	1/2″	
GFC-1145*	GFC-2145*	0 to 1000 L/min	3/4″	
*Specified flow ranges are for an equivalent flow of nitrogen at 70°F (21°C) @ 760 mm Hg				

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

USA: California Proposition 65

▲ WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.