Dwyer SERIES GFC **GAS MASS FLOW CONTROLLERS** Flow Range Up to 1000 L/min, Pressures Up to 500 psi, NIST Traceable

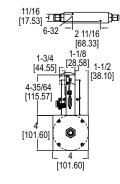
CALIBRATION SERVICES AVAILABLE





1-1/8 1-3/4 [28.58] [44.55] [76.20] 5-37/64 3-9/16 [141.86] [90.42]]0. ø 6-19/64 [159.77 [25.40]

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



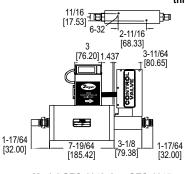
SPECIFICATIONS

76 20 31/32 3-15/16 [151.77 [99.95] Ben 7 21/64 [186.18] 7 21/64 [186.18]

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

1-1/8 1 - 3/4[28.58] [44.55] 1-1/4 0 [31.75]

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



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

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. Parpages Time: 2 sto within ±2% of actual flow.

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).

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

- 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
- readout
- 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 equipment
- Vacuum processes
- Glass and metal coating
- · Film deposition

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-2106*	0 to 500 mL/m	1/4″
GFC-1107*	GFC-2107*		1/4″
GFC-1108*	GFC-2108*	0 to 2 L/min	1/4″
GFC-1109*	GFC-2109*	0 to 5 L/min	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			

ACCESSORIES Model Description 110 V power supply 220 V power supply 8´ cable with 15-pin connector **GFC-110P** GFC-220PE GFC-CBL1

3' extension cable for LCD readout

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).

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

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

USA: California Proposition 65

GFC-CBL3

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.

Flowmeters/ Mass F