

GAS MASS FLOW METERS
 Flow Monitoring, Push-Button Configuration

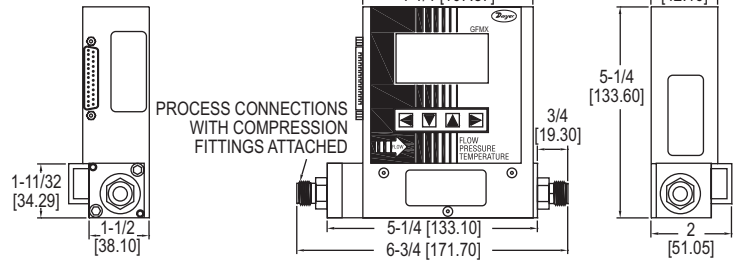
CALIBRATION SERVICES AVAILABLE



GFM3



GFM4



The Series GFM3 & GFM4 Gas Mass Flow Meters are an ideal choice for the measurement of flow rates of a wide variety of gases. Unit can be calibrated for a variety of gases via push-button with 0-5 VDC, 0-10 VDC or 4-20 mA and relay outputs.

FEATURES/BENEFITS

- Multi parameter flow meter supports various functions such as flow totalizer, flow, temperature, and pressure alarms, and is available in a choice of 0-5 VDC, 0-10 VDC, or 4-20 mA output signals
- Set alarms remotely via digital interface for flow, pressure, and temperature to alert user of high or low thresholds being exceeded
- Programmable 12-digit totalizer for total gas volume indication, and is available in the choice of 0-5 VDC, 0-10 VDC, or 4-20 mA output signals
- Standard four button keypad and large 128 x 64 graphical LCD with backlight allows easy access to the many features
- Digital interface operates through available RS-485 or RS-232, providing access to internal data parameters and multi-drop capability of up to 255 units (RS-485 only)
- Set alarms remotely via digital interface for flow to alert user of high or low thresholds being exceeded
- Internal conversion factors for up to 32 gases
- NIST traceable certificate included
- Automatic zero adjustment
- Self-diagnostic tests

SPECIFICATIONS

Service: Clean gases compatible with wetted parts.
Wetted Materials: 316 SS, 416 SS; Fluoroelastomer, Buna-N, EPR or PTFE O-rings.
Accuracy: ±1% FS.
Repeatability: ±0.25% FS.
Response Time: 0.6 to 1.0 s to within ±2% of set point over 20 to 100% FS.
Output Signal: Linear 0-5 VDC (3000 Ω min. load impedance); 0-10 VDC (6000 Ω min. load impedance); 4-20 mA (500 Ω max. loop resistance).
Relay Rating: 1 A @ 24 VDC.
Max. Particulate Size: 5 microns.
Temperature Limits: Ambient: 32 to 122°F (0 to 50°C); Dry Gases: 14 to 122°F (-10 to 50°C).
Power Supply: 12 VDC; 15 VDC; ±24 VDC.
Process Connections: 1/8" compression fitting for flow rates ≤ 10 L/min; 1/4" for ≤ 50 L/min; 3/8" for ≤ 100 L/min.
Pressure Limits: 500 psia (35 bar).
Leak Integrity: 1 x 10⁻⁹ smL/sec of helium.
Display: 128 x 64 graphic LCD with backlight.
Weight: 1 lb (.45 kg).

APPLICATIONS

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

MODEL CHART											Price	
Example	GFM3	-AIR	-010	-5	-E	-B	-L	-B	-C	-2	GFM3-AIR-010-5-E-B-L-B-C-2	-
Series	GFM3 GFM4										Gas mass flow meter Gas mass flow meter with temperature	+\$357.00 ^(B)
Specialty Gas & K-Factor		AIR AR C2H2 C3H8 C4H10 CH4 CO CO2 HF HE H2 N2 NH3 O2 SO2									Air 1.0000 Argon 1.4573 Acetylene 0.5829 Propane 0.3500 Butane 0.2631 Methane 0.7175 Carbon monoxide 1.0000 Carbon dioxide 0.7382 Hydrogen fluoride 0.9998 Helium 1.4540 Hydrogen 1.0106 Nitrogen 1.0000 Ammonia 0.7310 Oxygen 0.9926 Sulfur dioxide 0.6900	- -
Body Size ^(E)			010 050 100								Low flow Medium flow High flow	1592.00 ^(B) 1725.00 ^(B) 1857.00 ^(B)
Power Supply				5 2 4							±15 VDC 12 VDC 24 VDC	- +69.00 ^(B) +136.00 ^(B)
Seal Material					V B E T						Fluoroelastomer Buna-N EPR PTFE	- - - +486.00 ^(B)
Fittings						A B D					1/4" compression (low) 1/8" compression (medium) 3/8" compression (high)	- - -
Display							L				LED display	+110.00 ^(B)
Flow Output Signal								A B G			0-5 VDC 4-20 mA 0-10 VDC	- - -
Temperature & Pressure Output Signal									A B C D E F G H I J		N.A/N.A 0-5 VDC/0-5 VDC 0-5 VDC/4-20 mA 0-5 VDC/0-10 VDC 4-20 mA/0-5 VDC 4-20 mA/4-20 mA 4-20 mA/0-10 VDC 0-10 VDC/0-5 VDC 0-10 VDC/4-20 mA 0-10 VDC/0-10 VDC	- - - - - - - - - - -
Digital Interface										2 5 9	RS232 RS485 PROFIBUS	- - +768.00 ^(B)
Note: Specify flow range at time of order ^(E)											^(B) Items are subject to Schedule B discounts.	

ACCESSORIES

Model	Description	Price
A-110N12	110 VAC power supply, 12 VDC standard interface	\$91.00 ^(B)
A-110N24	110 VAC power supply, 24 VDC standard interface	91.00 ^(B)
A-110NA15	110 VAC power supply, 15 VDC standard interface	323.00 ^(B)

^(B) Items are subject to Schedule B discounts.