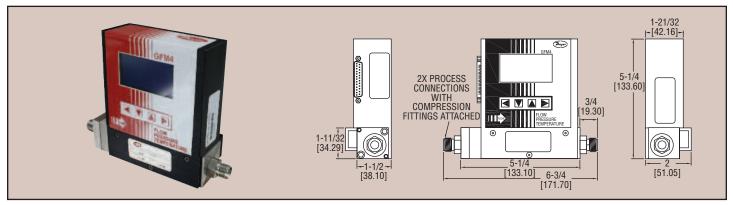
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Series GFM4

Gas Mass Flow Meter

Pressure, Temperature and Flow Monitoring



The Series GFM4 Gas Mass Flow Meter is an ideal choice for the measurement of flow rates of a wide variety of gases. This multi parameter flow meter supports various functions such as flow totalizer, flow, temperature, and pressure alarms, and is available in a choice of 0 to 5VDC, 0 to 10VDC, or 4 to 20 mA output signals. Standard LCD and four button keypad allows easy access to the many features of the GFM4. 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, pressure, and temperature to alert user of high or low thresholds being exceeded. With a high $\pm 1\%$ FS accuracy and $\pm 0.25\%$ FS repeatability, the GFM4 is the optimal choice in gas flow metering and monitoring. The GFM4 comes with a NIST traceable certificate.

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 $\pm 2\%$ of setpoint over 20 to 100% FS.

Output Signal: Linear 0 to 5 VDC (3000 Ω min. load impedance); 0 to 10 VDC (6000 Ω min. load impedance); 4 to 20 mA (500 Ω max loop resistance).

Relay Rating: 1 amp @ 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; \pm 15 VDC; 24 VDC. Process Connections: 1/8" compression fitting for flow rates \leq 10 L/min; 1/4" for \leq 50 L/min; 3/8" for \leq 100 L/min. Pressure Limits: 200 psia (13.79 barA). Leak Integrity: 1 x 10.9 smL/sec of helium. Display: 128 x 64 graphic LCD with backlight. Weight: 1 lb (.45 kg).

FEATURES

- Multi-drop capability of up to 256 units (for RS-485 option).
- Programmable 12 digit totalizer indicates total gas volume.
- Flow alarm limits for high and low gas flow with relay output.
- Pressure alarm limits for high and low gas pressure with relay output.
- Four button keypad and large 128x64 graphical LCD with backlight.
- Internal conversion factors for up to 32 gases.

Automatic zero adjustment.

- Self diagnostic tests.
- Free communication software available at www.dwyer-inst.com.

Example	GFM4	AIR	010	5	V	Α	Ν	Α	С	2	GFM4-AIR-010-5-V-A-N-A-C-2
Series	GFM4										Gas Mass Flow Meter
Specialty Gas &		AIR									Air 1.0000
K-Factor		AR									Argon 1.4573
		C ₂ H ₂									Acetylene 0.5829
		C_3H_8									Propane 0.3500
		C_4H_{10}									Butane 0.2631
		CH_4									Methane 0.7175
											Carbon Monoxide 1.0000
		CO ₂									Carbon Dioxide 0.7382
		HF									Hydrogen Fluoride 0.9998
		HE									Helium 1.4540
		H ₂									Hydrogen 1.0106
		N ₂									Nitrogen 1.0000
		NH ₃									Ammonia 0.7310
		O ₂									Oxygen 0.9926
		SO ₂									Sulfur Dioxide 0.6900
Max Flow			010								10 L/Min
(L/Min N2)			050								50 L/Min
			100								100 L/Min
Power Supply				5							±15 VDC
				2							12 VDC
				4							24 VDC
Seal Material					V						Fluoroelastomer
					В						Buna-N
					E						EPR
					Т						PTFE
Fittings						A					1/8" Compression (10 L/min)
-						В					1/4" Compression (50 L/min)
						D					3/8" Compression (100 L/min)
Display							Ν				No Display
							L				LED Display
Flow Output								Α			0 to 5 VDC
Signal								в			4 to 20 mA
								G			0 to 10 VDC
Temperature &								-	Α		N.A/N.A
Pressure Output									В		0 to 5 VDC/0 to 5 VDC
Signal									С		0 to 5 VDC/4 to 20 mA
g									D		0 to 5 VDC/0 to 10 VDC
									E		4 to 20 mA/0 to 5 VDC
									F		4 to 20 mA/4 to 20 mA
									G		4 to 20 mA/0 to 10 VDC
									Н		0 to 10 VDC/0 to 5 VDC
											0 to 10 VDC/4 to 20 mA
									J		0 to 10 VDC/0 to 10 VDC
Digital Interface									J	2	RS232
Digital Interiace											
										5 9	RS485
										9	PROFIBUS

ACCESSORIES

A-110N12, 110 VAC Power Supply, 12 VDC Standard Interface A-110N24, 110 VAC Power Supply, 24 VDC Standard Interface

A-110NA15, 110 VAC Power Supply, 15 VDC Standard Interface

Mass Flowmeters/ Controllers

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