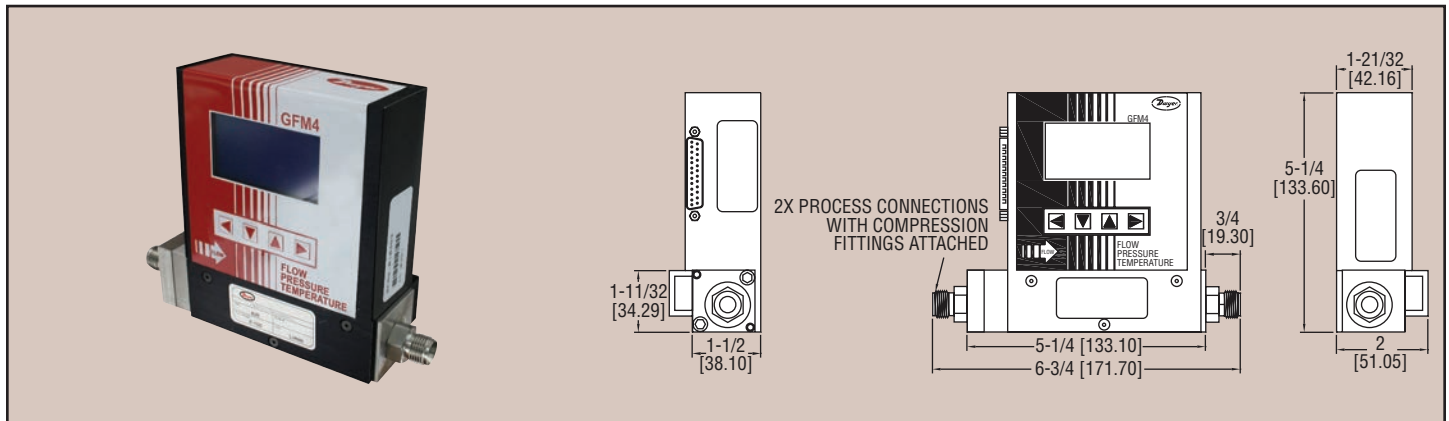




Series
GFM4

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: $\pm 1\%$ FS.

Repeatability: $\pm 0.25\%$ 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; ± 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: 200 psia (13.79 barA).

Leak Integrity: 1×10^{-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.

ACCESSORIES

A-110N12, 110 VAC Power Supply, 12 VDC Standard Interface **\$82.50**ⓑ

A-110N24, 110 VAC Power Supply, 24 VDC Standard Interface **.82.50**ⓑ

A-110NA15, 110 VAC Power Supply, 15 VDC Standard Interface **295.00**ⓑ

Example	GFM4	AIR	010	5	V	A	N	A	C	2	GFM4-AIR-010-5-V-A-N-A-C-2	Price
Series	GFM4										Gas Mass Flow Meter	-
Specialty Gas & K-Factor		AIR									Air 1.0000	-
		AR									Argon 1.4573	-
		C ₂ H ₂									Acetylene 0.5829	-
		C ₃ H ₈									Propane 0.3500	-
		C ₄ H ₁₀									Butane 0.2631	-
		CH ₄									Methane 0.7175	-
		CO									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	-
Body Size ⓐ			010								Low Flow	\$1803.00 ⓑ
			050								Medium Flow	1919.00 ⓑ
			100								High Flow	2041.00 ⓑ
Power Supply				5							± 15 VDC	-
				2							12 VDC	+61.00 ⓑ
				4							24 VDC	+121.00 ⓑ
Seal Material					V						Fluoroelastomer	-
					B						Buna-N	-
					E						EPR	-
					T						PTFE	+445.00 ⓑ
Fittings						A					1/8" Compression (Low)	-
						B					1/4" Compression (Medium)	-
						D					3/8" Compression (High)	-
Display							N				No Display	-
							L				LED Display	+98.00 ⓑ
Flow Output Signal								A			0 to 5 VDC	-
								B			4 to 20 mA	-
								G			0 to 10 VDC	-
Temperature & Pressure Output Signal								A			N.A./N.A	-
								B			0 to 5 VDC/0 to 5 VDC	-
								C			0 to 5 VDC/4 to 20 mA	-
								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	-
								H			0 to 10 VDC/0 to 5 VDC	-
								I			0 to 10 VDC/4 to 20 mA	-
								J			0 to 10 VDC/0 to 10 VDC	-
Digital Interface									2		RS232	-
									5		RS485	-
									9		PROFIBUS	+704.00 ⓑ

Note: Specify flow range at time of order ⓐ

ⓑ Items are subject to Schedule B discounts.

ⓐ Flow Range Chart: See page 224 (Series GFM2)

ⓑ Max Flow Range Chart (per body size for the given gases): See page 224 (Series GFM2)