

IN-LINE PNEUMATIC FLOWMETERS

FLMG Series
Starts at

\$172



- ✓ Suitable for Monitoring Most Pneumatic or Compressed Gas Systems
- ✓ Flow Rates from 1.2 to 900 SCFM @ 100 psi
- ✓ High Pressure to 600 psi—Brass, Aluminum; 1000 psi—Stainless Steel
- ✓ High Temperature to 116°C (240°F) Standard, 204 or 316°C (400 or 600°F) Optional
- ✓ Mounts in Any Position
- ✓ Relay Alarms and Analog Outputs Optional

The FLMG flowmeters feature rugged construction, easy installation, and direct-reading flow rates of air. The units are calibrated at 100 psi pressure, suitable for most compressed pneumatic applications.

The spring-and-piston type assembly enables these flowmeters to be mounted in any position.

The FLMG models with optional analog output (-MA) are typically used to transmit a signal proportional to the flow rate to a process controller, a PLC, a recorder, or a panel-mount display. With the -MA option, the user can choose between reading a 0 to 2000 Hz square-wave pulse, a 0 to 5 Vdc analog signal, or a 2-wire 4 to 20 mA analog signal by connecting the appropriate pins.

SPECIFICATIONS

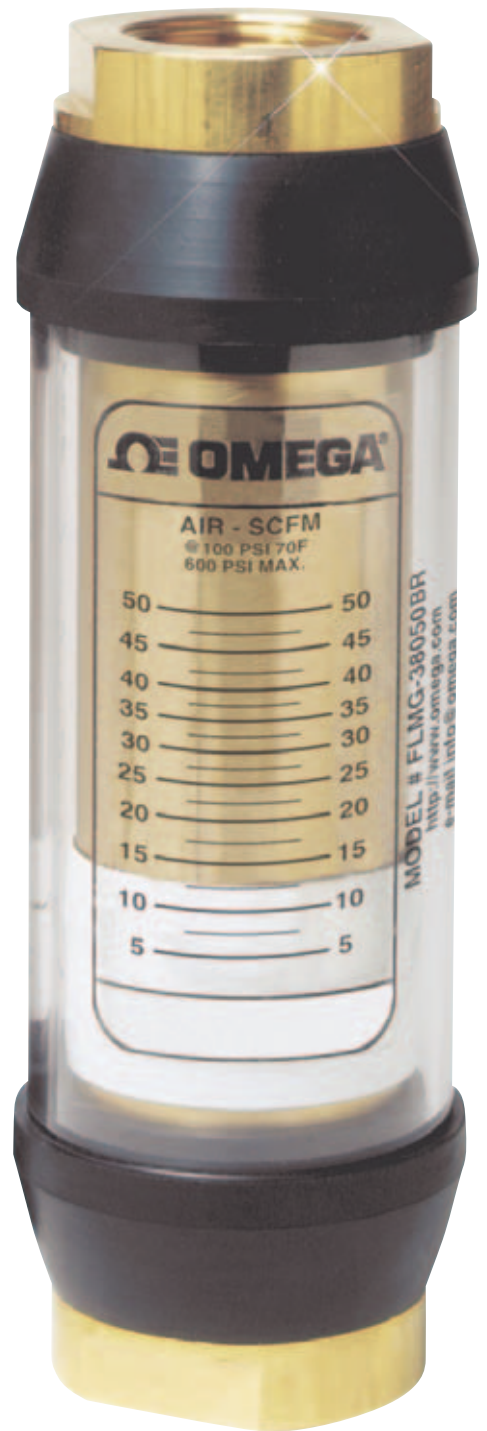
Measuring Accuracy: ±2.5% FS in the center third of the measuring range; ±4% FS over the entire scale range

Repeatability: ±1% FS

Flow Measuring Range: 1.2 to 900 SCFM



FLMG-14012AL, \$172, shown smaller than actual size.



FLMG-38050BR, \$230, shown smaller than actual size.

Maximum Operating Pressure:

Aluminum and Brass Monitors:

40 bar (600 psig)

Stainless Steel Monitors: 70 bar

(1000 psig) up to 116°C (240°F)

Maximum Operating Temperature:

116°C (240°F)

Note: For options “-HT” and “-UHT”, see high-temperature graph at omega.com/flmw

Pressure Differential:

Visit omega.com/flmw for graphs

Standard Calibration Fluids:

Air @ 21°C (70°F), 1.0 sg and 6.8 bar (100 psig)

Relay (Optional): 1 or 2 form “C” relays, rated 10 A, 125 or 250 Vac or ¼ A, 250 Vdc

Mechanical Life:

>10⁶ cycles

Analog Output (Optional):

Supply voltage 12 to 35 Vdc, field selectable for 0 to 5 Vdc (100 W minimum load), 0 to 2000 Hz square-wave pulse or 4 to 20 mA
 $R_{max} = 50 (V_s - 12)$
 (V_s = supply voltage DC)

Materials of Construction (Wetted Components)

Description	Aluminum	Brass	Stainless Steel
High-pressure casing, end ports and tapered shaft	Aluminum	Brass	304 SS
Seals	Buna (standard), EPR, FKM or Perfluoroelastomer	Buna (standard), EPR, FKM or Perfluoroelastomer	FKM with PTFE backup (standard), Buna, EPR or Perfluoroelastomer
Transfer magnet	PTFE-coated Alnico	PTFE-coated Alnico	PTFE-coated Alnico
Floating orifice disk	Stainless steel	Stainless steel	Stainless steel
All other internal parts	Stainless steel	Stainless steel	Stainless steel

Materials of Construction (Non-Wetted Components)

Description	Aluminum	Brass	Stainless Steel
Window tube	Polycarbonate (standard), Pyrex®	Polycarbonate (standard), Pyrex	Polycarbonate (standard) Pyrex
Window seals	Buna (standard), PTFE	Buna (standard), PTFE	Buna (standard) PTFE

Port Sizes	¼ to 1½ FNPT
Installation Dimensions	¼ to ½" Port: 1⅞" OD x 6⅞" length ¾ to 1" Port: 2⅜" OD x 7⅝" length 1¼ to 1½" Port: 3½" OD x 10⅞" length

Note: Minimum flow rate = 10% of maximum.

Air Flowmeters - ¼ to ½ NPT Sizes

Model No.	Max SCFM	Connection Size	Price
FLMG-14012(*)	12	¼ NPT	\$172
FLMG-14022(*)	23	¼ NPT	172
FLMG-14050(*)	50	¼ NPT	172
FLMG-14100(*)	100	¼ NPT	172
FLMG-38012(*)	12	⅜ NPT	172
FLMG-38022(*)	23	⅜ NPT	172
FLMG-38050(*)	50	⅜ NPT	172
FLMG-38100(*)	100	⅜ NPT	172
FLMG-12012(*)	12	½ NPT	172
FLMG-12022(*)	23	½ NPT	172
FLMG-12050(*)	50	½ NPT	172
FLMG-12100(*)	100	½ NPT	172

(*) Specify "AL" for aluminum, standard, "BR" for brass, add \$58, and "SS" for stainless steel, add \$368.

Air Flowmeters - 1¼ to 1½ NPT Sizes

Model No.	Max SCFM	Connection Size	Price
FLMG-1140450(*)	470	1¼ NPT	\$691
FLMG-1141000(*)	900	1¼ NPT	691
FLMG-1120450(*)	470	1½ NPT	691
FLMG-1121000(*)	900	1½ NPT	691

(*) Specify "AL" for aluminum, standard, "BR" for brass, add \$58, and "SS" for stainless steel, add \$368.

Option Pricing Includes Flowmeter (Only One Option Per Flowmeter)

Port Size	Aluminum Prices					Brass Prices					Stainless Steel Prices				
	-HT	-UHT	-R1	-R2	-MA	-HT	-UHT	-R1	-R2	-MA	-HT	-UHT	-R1	-R2	-MA
¼ to ½"	\$307	\$516	\$408	\$429	\$636	\$408	\$602	\$444	\$501	\$723	\$674	\$871	\$667	\$744	\$888
¾ to 1"	407	732	469	512	691	523	819	525	577	798	795	1204	885	930	1051
1¼ to 1½"	794	1807	822	954	1030	1239	2125	1269	1521	1519	1553	2674	1823	2021	2019

Comes complete with operator's manual.

Ordering Examples: FLMG-10100BR-MA, 1" brass air flowmeter, 10 to 100 SCFM, 4 to 20 mA output, \$798. FLMG-14012BR, ¼ NPT brass air flowmeter, 1.2 to 12 SCFM, \$230.

Air Flowmeters - ¾ to 1 NPT Sizes

MOST POPULAR MODELS HIGHLIGHTED!

Model No.	Max SCFM	Connection Size	Price
FLMG-34050(*)	60	¾ NPT	\$264
FLMG-34100(*)	100	¾ NPT	264
FLMG-34150(*)	150	¾ NPT	264
FLMG-34260(*)	330	¾ NPT	264
FLMG-10050(*)	60	1 NPT	264
FLMG-10100(*)	100	1 NPT	264
FLMG-10150(*)	150	1 NPT	264
FLMG-10260(*)	330	1 NPT	264

(*) Specify "AL" for aluminum, standard, "BR" for brass, add \$58, and "SS" for stainless steel, add \$368.

Options

Order Suffix	Description
-HT	High temperatures, 204°C (400°F) max
-UHT	Ultra high temperatures, 315°C (600°F) max
-R1	Single SPDT relay, 10 A @ 220 Vac
-R2	Dual SPDT relays, 10 A @ 220 Vac
-MA	4 to 20 mA output (12 to 35 Vdc powered)
-BDF	Bidirectional flow (not available with 1½" size units, or with UHT, R1, R2, or MA options) \$62 additional for ¼ to ½" sizes \$90 additional for ¾ to 1" sizes \$205 additional for 1¼" size

Note: Only one option may be ordered with each unit.

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