

Compact Gas Mass Flowmeters

Precisely measure flow rates and totals

– Proven design uses metal body components for added durability

These flowmeters feature an advanced straight-tube sensor that ensures accurate and repeatable results. Gas flow measurements are unaffected by moderate temperature and pressure variations at the inlet. The meter also allows a four-point calibration across the flow range to improve meter linearity. Output data from the meter can be sent via a 0 to 5 VDC or 4 to 20 mA signal; an analog-to-RS converter is available for data collection and analysis on your PC.

All meters include a detachable 3 1/2-digit LCD that can be tilted up to 90° for easy reading. Remotely mount the display up to three feet using extension cable 32662-70. The optional totalizer 32650-70 displays accumulated flow. The meter is protected from polarity reversal or short circuit by a built-in resettable fuse. Aluminum models have wetted materials of anodized aluminum, brass, and Viton®; stainless steel (SS) models have wetted materials of SS and Viton.

What's included: NIST-traceable calibration report supplied by the manufacturer.



Teky's Tips



Accuracy

These precalibrated flow-meters operate at inlet pressures between 5 and 40 psi and at gas temperatures between 64 and 77°F (18 to 25°C) while maintaining the stated ±1.5% full scale accuracy and linearity. When operating beyond 5 to 40 psi, add ±0.02%/psi full-scale; if operating beyond 64 to 77°F (18 to 25°C), add ±0.15%/°C full-scale.

Specifications

Maximum particulate size:
5 microns
Accuracy (including linearity):
±1.5% full-scale (details at left)
Accuracy coefficient, temperature: ±0.15%/°C full-scale
Accuracy coefficient, pressure: ±0.01%/psi full-scale
Repeatability: ±0.5% full-scale

Response time: 2 seconds (typical) to within ±2% of actual flow rate from 25 to 100% of full-scale
Operating temp: 32 to 122°F (0 to 50°C)
Maximum system pressure: 1000 psi (69 bar)
Leak integrity: 1 x 10⁻⁷ sccs He (max)
Transducer input power: 12 VDC, 200 mA max; polarity protected

Output: linear 0 to 5 VDC (1000 Ω minimum load), 4 to 20 mA (50 to 250 Ω loop resistance)
Connections (included): Models up to 50 sL/min: 1/4" compression fittings; 100 and 200 sL/min models: 3/8" compression fittings; 500 sL/min models: 1/2" compression fittings; 1000 sL/min models: 3/4" NPT(F) fittings



Flow rate	Pressure drop (max flow)	Aluminum bodies				Price	316 stainless steel bodies				Price
		Air/N ₂	O ₂	H ₂	Ar		Air/N ₂	O ₂	H ₂	Ar	
		Cat. no.	Cat. no.	Cat. no.	Cat. no.		Cat. no.	Cat. no.	Cat. no.	Cat. no.	
0 to 10 sccm	0.04 psi	GH-32648-00	GH-32649-00	GH-32654-00	GH-32657-00		GH-32648-50	GH-32649-50	GH-32654-50	GH-32657-50	
0 to 20 sccm		GH-32648-02	GH-32649-02	GH-32654-02	GH-32657-02		GH-32648-52	GH-32649-52	GH-32654-52	GH-32657-52	
0 to 50 sccm		GH-32648-04	GH-32649-04	GH-32654-04	GH-32657-04		GH-32648-54	GH-32649-54	GH-32654-54	GH-32657-54	
0 to 100 sccm	0.04 psi	GH-32648-06	GH-32649-06	GH-32654-06	GH-32657-06		GH-32648-56	GH-32649-56	GH-32654-56	GH-32657-56	
0 to 200 sccm		GH-32648-08	GH-32649-08	GH-32654-08	GH-32657-08		GH-32648-58	GH-32649-58	GH-32654-58	GH-32657-58	
0 to 500 sccm		GH-32648-10	GH-32649-10	GH-32654-10	GH-32657-10		GH-32648-60	GH-32649-60	GH-32654-60	GH-32657-60	
0 to 1 sL/min	0.04 psi	GH-32648-12	GH-32649-12	GH-32654-12	GH-32657-12		GH-32648-62	GH-32649-62	GH-32654-62	GH-32657-62	
0 to 2 sL/min		GH-32648-14	GH-32649-14	GH-32654-14	GH-32657-14		GH-32648-64	GH-32649-64	GH-32654-64	GH-32657-64	
0 to 5 sL/min		GH-32648-16	GH-32649-16	GH-32654-16	GH-32657-16		GH-32648-66	GH-32649-66	GH-32654-66	GH-32657-66	
0 to 15 sL/min	0.09 psi	GH-32648-19	GH-32649-19	GH-32654-19	GH-32657-19		GH-32648-68	GH-32649-68	GH-32654-68	GH-32657-68	
0 to 30 sL/min	1.2 psi	GH-32648-34	GH-32649-34	GH-32654-34	GH-32657-34		GH-32648-84	GH-32649-84	GH-32654-84	GH-32657-84	
0 to 50 sL/min	3.3 psi	GH-32648-36	GH-32649-36	GH-32654-36	GH-32657-36		GH-32648-86	GH-32649-86	GH-32654-86	GH-32657-86	
0 to 100 sL/min	8.1 psi	GH-32648-42	GH-32649-42	GH-32654-42	GH-32657-42		GH-32648-92	GH-32649-92	GH-32654-92	GH-32657-92	
0 to 200 sL/min	4 psi	GH-32648-43	GH-32649-43	GH-32654-43	GH-32657-43		GH-32659-00	GH-32659-02	GH-32659-04	GH-32659-06	
0 to 500 sL/min	6 psi	GH-32648-44	GH-32649-44	GH-32654-44	GH-32657-44		GH-32659-10	GH-32659-12	GH-32659-14	GH-32659-16	
0 to 1000 sL/min	10 psi	GH-32648-45	GH-32649-45	GH-32654-45	GH-32657-45		GH-32659-20	GH-32659-22	GH-32659-24	GH-32659-26	

Accessories

GH-17080-10 NIST-traceable recalibration

Output Cables make it easy to connect your flowmeter to other instruments. Features DB9(F) connectors. Cables are three feet long.

GH-32650-60 Output cable, for 4 to 20 mA signal

GH-32650-65 Output cable, for 0 to 5 VDC signal

Extension Cable lets you extend display up to three feet away for remote reading.

GH-32662-70 Extension cable

Power Supply allows flowmeters to be powered by AC voltage.

GH-03277-00 Power supply, 110 VAC

GH-03277-05 Power supply, 220 VAC

Flow Totalizer 32650-22 displays instantaneous, total, and accumulated flow rates, has 47 different volumetric and mass flow units, and digital interface.

GH-32650-22 Flowmeter totalizer

Search

For more information on the Flow Totalizer, go to . . .

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