

Aluminum/Stainless Steel Gear Flow Sensors/Transmitters

Control flow up to 60 GPM accurately

- High-strength aluminum or stainless steel body withstands pressures up to 5000 psi
- Choose models with pulse output, 4 to 20 mA signal output, or integral digital display

Precisely measured gear teeth deliver consistent $\pm 0.5\%$ accuracy even when measuring high-viscosity fluids—ideal for measuring the flow of oils, grease, fuels, solvents, and other nonabrasive lubricating liquids. These positive displacement flowmeters are solidly built to provide excellent dynamic response for use in high-pressure applications. Gears and bearings withstand bidirectional flow without damage. Two 6-mm mounting holes let you secure the meter on a base plate, panel, or manifold. Available with a high-strength aluminum or 303 SS body.

A. Flowmeters with Pulse Output provide a NPN sourcing square wave pulse that is proportional to the flow rate. The peak-to-peak voltage of this square wave is the supply voltage provided minus two volts.

B. Flowmeters with Meter-Mounted Analog Output provide a scalable 4 to 20 mA signal output proportional to the flow rate. For panel-mount displays that accept 4 to 20 mA input see pages 582-583.

C. Flowmeters with Meter-Mounted Digital Display instantaneous flow rate or total readings on a large 6-digit LCD. Display is fully programmable and allows you to switch between rate and flow total as well as reset totalization by using an attached magnet sensor—no need to open up the weather-tight enclosure. Portable and battery-operated, includes a battery pack that lasts up to four years.

Note: These flowmeters are not recommended for water, for fluids with abrasives such as paint and sealants, or for strong acids and bases. Please read maximum particle size in the specifications list below.



A.
Flowmeter with pulse output
32928-10



B.
Meter-mounted analog flowmeter
32928-20



C.
Meter-mounted digital flowmeter with integral display
32928-38



Cut away view of
32928-12

ISO9001:2008
CERTIFIED SUPPLIER



Specifications

Viscosity range: 1 to 100,000 cp	Maximum pressure: 5000 psi (345 bar)
Accuracy: $\pm 0.5\%$ of reading	Materials: 17-4 PH SS gears, 440 SS bearings, PTFE O-rings, aluminum or 303 SS body
Repeatability: $\pm 0.1\%$ of reading	Maximum particle size:
Maximum temp:	0.003 to 0.5 GPM models: 30 μ m
Aluminum body: 185°F (85°C)	0.01 to 2 GPM models: 30 μ m
Stainless steel body: 400°F (205°C)	0.05 to 20 GPM models: 30 μ m
Output signals:	0.5 to 60 GPM models: 120 μ m
Pulse models: square wave, 10 to 24 VDC	Power requirements: 10 to 24 VDC at 25 mA
Other models: 4 to 20 mA	

Flow rates (GPM)	Pressure drop (max flow)	Connections NPT(F)	Aluminum body		303 SS body	
			Catalog number	Price	Catalog number	Price
A. Flowmeters with pulse output						
0.003 to 0.5	45 psi at 100 cSt	1/4"	GH-32928-01			
0.01 to 2	10 psi at 100 cSt	1/4"	GH-32928-00		GH-32928-10	
0.05 to 20	45 psi at 100 cSt	1/2"	GH-32928-02		GH-32928-12	
B. Meter-mounted analog flowmeters with 4 to 20 mA output						
0.01 to 2	10 psi at 100 cSt	1/4"	GH-32928-20		GH-32928-26	
0.05 to 20	45 psi at 100 cSt	1/2"	GH-32928-22		GH-32928-28	
C. Meter-mounted digital flowmeters with integral display						
0.01 to 2	10 psi at 100 cSt	1/4"	GH-32928-30		GH-32928-36	
0.05 to 20	45 psi at 100 cSt	1/2"	GH-32928-32		GH-32928-38	
0.5 to 60	40 psi at 100 cSt	1 1/4"	GH-32928-34		GH-32928-40	

Flow Monitors and Accessories

Monitor both flow rate and total flow from pulse output flowmeters in any engineering unit with a push of a button. Programmable, compact, and easy-to-use. Input square wave, sine, or sawtooth frequency. Back-up totalizer lock-out feature prevents accidental erasure. High-speed microprocessor ensures fast and accurate reporting—includes a 4 to 20-mA output for recording or data logging.

Flow monitor (32928-75 and -76) for pulse output flowmeters 32928-01 to -12



- [GH-32928-75](#) Flow monitor, 110 VAC
- [GH-32928-76](#) Flow monitor, 110 VAC
- [GH-32928-60](#) Cable, 10-ft (3.0-m) connection for flow monitor 32928-75 and -76
- [GH-50001-00](#) Line cord; 120 VAC, 6-ft (1.8-m) L US standard plug, for use with flow monitors 32928-75 and -76