

Model CGM1 Gear Flow Meter (Frequency) 1.0 cc/min to 2 liters/min

SPECIFICATIONS

Flow Range 1 cc/min to 2 liters/min

Accuracy (at 30 cP) ± 1.0% of reading over a 100:1 range

Accuracy (at 3 cP) ± 1.0% of reading over a 100:1 range (≤100 psi*)

Maximum Operating Pressure 250 psi (17 bar)

Weight 0.4 kg
Recommended Filtration 10 micron

Port Size(s) 1/8" NPT or 1/8" BSPP

Fluids Most aqueous and hydrocarbon-based fluids

Typical Fluid pH Range 2 to 13



MATERIALS OF CONSTRUCTION

External Unfilled PEEK: Stainless Steel, type 303, 316, 17-7; FKM

Wetted Unfilled PEEK: Zirconia (ZrO2)
O-Rings Standard: FEPM (Fluoroelastomer)
Optional: FFKM (Perfluoroelastomer)

FREQUENCY TRANSMITTER

Output Signal Standard: 5 Vdc, single phase Optional: Quadrature 5 Vdc, two phase

Current sinking, 20 mA max., single phase

K-Factor Single Phase: 500 pulses/cc

Two Phase: 1,000 pulses/cc, 4x decoded

(250 pulses/cc/phase, 1x decoded)

Power Supply Requirements 5 - 26 Vdc, at 30 mA

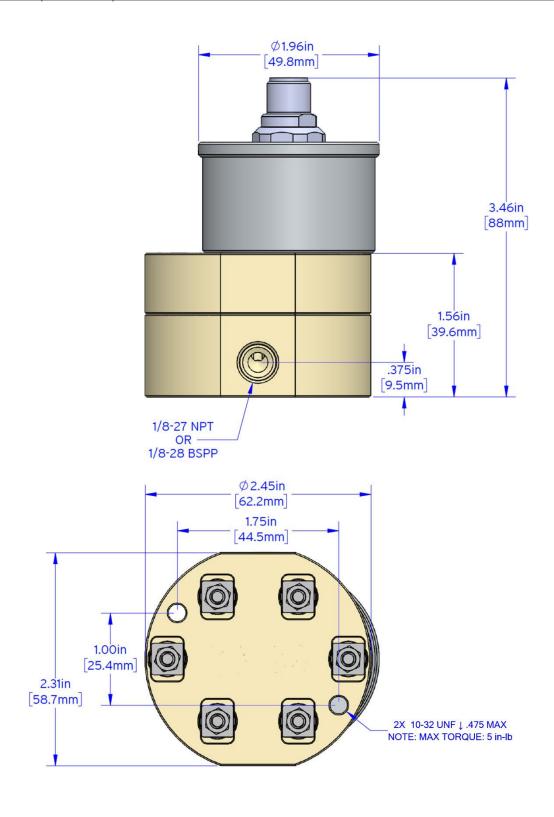
Ambient Operational Range -15°C to 70°C Metered Liquid Temp Range -15°C to 70°C

Compliance CE Certified - IP65 Rated

*When operating above 100 psi, accuracy over the 100:1 range may increase to +/- 3% of reading

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DIMENSIONS (Not to scale)



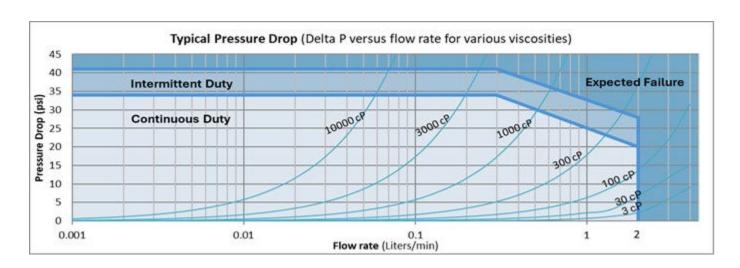
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CONNECTIVITY

Electrical connection - Frequency Output Transmitters

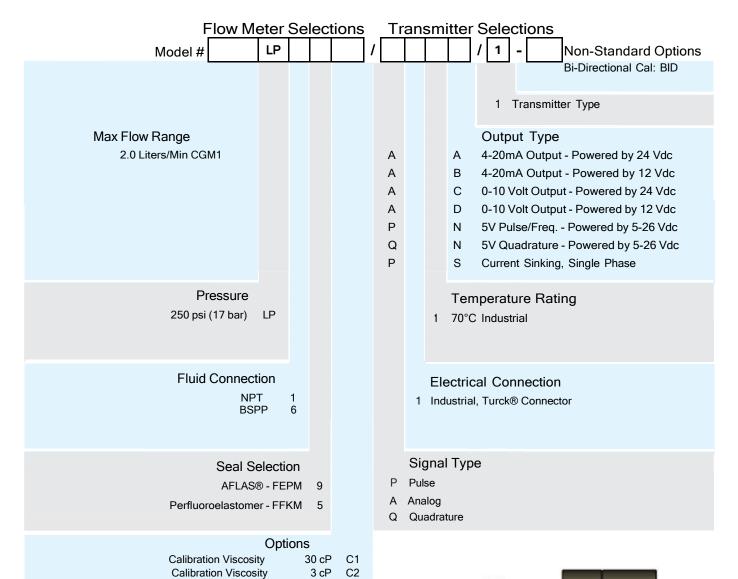
4 3 5		Turck® Connector	
1 2	PCA Label	Pin#	Mating Cable Wire Color
Power (+5 to 26 Vdc)	V+	1	Brown
Common	Com	4	Black
Pulse Output	PhA	2	White
Output Phase B (Quad only)	Ph B	5	Grey
Case Ground	Case	3	Blue

PRESSURE DROP GRAPH





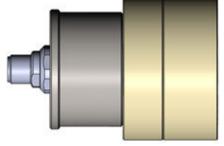
CGM1 Flow Meter



1 cP

CGM Viscosity Calibration Guide			
Application Use Viscosity (cP)	Factory Calibration Viscosity (cP)		
≥ 10	30		
2 ≤ Use ≤ 10	3		
2 or less	1		

(Consult Factory) Calibration Viscosity



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