

Model CGM1 Gear Flow Meter (Analog)

1.0 cc/min to 2 liters/min

SPECIFICATIONS

Flow Range	1 cc/min to 2 liters/min
Accuracy (at 30 cP calibration)	± 1.0% of reading over a 100:1 range, or ± 2mv (or 4µA), whichever is greater
Accuracy (at 3 cP calibration)	± 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)

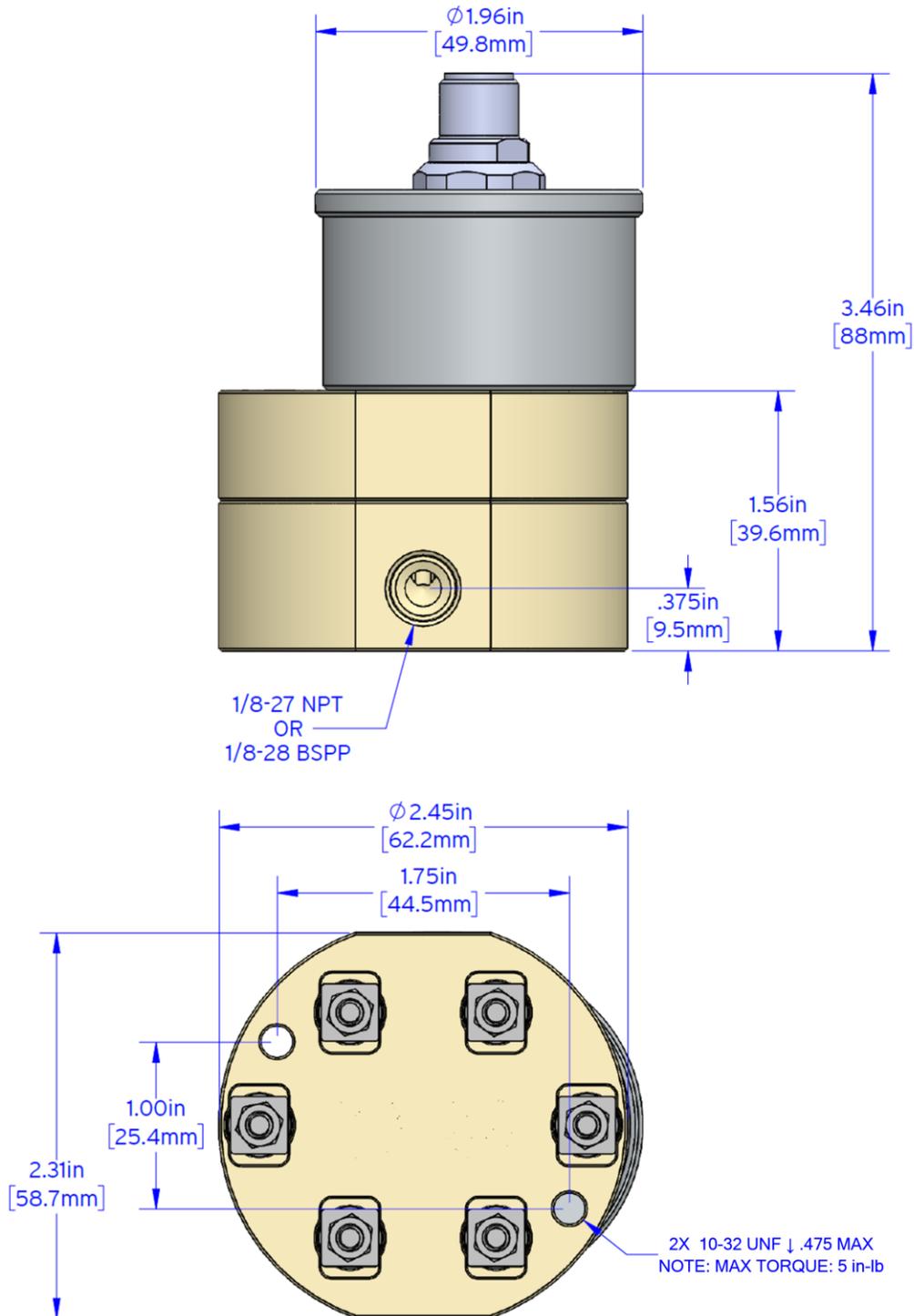
ANALOG TRANSMITTER

Output Signal	Any range of ± 10V or ± 20mA Linearized and damped with anti-dither protection.
Power Supply Requirements	Two Models: 12Vdc at 90 mA, 24Vdc at 45mA
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)



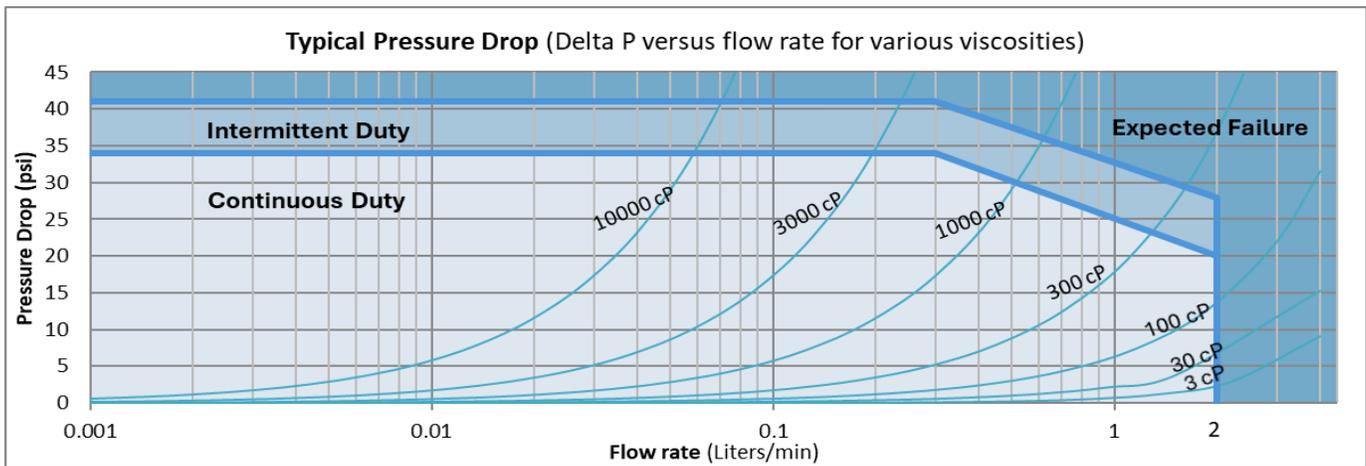
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CONNECTIVITY

Electrical connection - Analog Current or Voltage Output

PCA Label	Turck® Connector		
	Pin #	Mating Cable Wire Color	
Power *	V+	1	Brown
Common	Com	4	Black
Signal Output (+)	Sig	5	Grey
Signal Output (-)**	Ret	2	White
Case Ground	Case	3	Blue

PRESSURE DROP GRAPH



CGM1 Flow Meter

Flow Meter Selections

Model # LP / / 1 -

Max Flow Range
2.0 Liters/Min CGM1

Pressure
250 psi (17 bar) LP

Fluid Connection
NPT 1
BSPP 6

Seal Selection
AFLAS® - FEPM 9
Perfluoroelastomer - FFKM 5

Options
Calibration Viscosity 30 cP C1
Calibration Viscosity 3 cP C2
(Consult Factory) Calibration Viscosity 1 cP C3

Transmitter Selections

Non-Standard Options
Bi-Directional Cal: BID

1 Transmitter Type

Output Type
A 4-20mA Output - Powered by 24 Vdc
A B 4-20mA Output - Powered by 12 Vdc
A C 0-10 Volt Output - Powered by 24 Vdc
A D 0-10 Volt Output - Powered by 12 Vdc
P N 5V Pulse/Freq. - Powered by 5-26 Vdc
Q N 5V Quadrature - Powered by 5-26 Vdc
P S Current Sinking, Single Phase

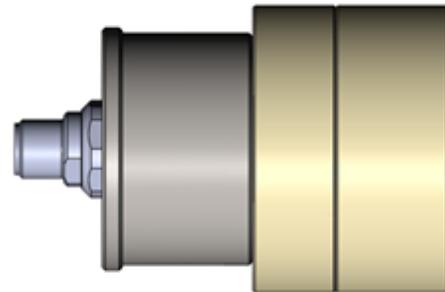
Temperature Rating
1 90°C Industrial

Electrical Connection
1 Industrial, Turck® Connector

Signal Type
P Pulse
A Analog
P Quadrature

CGM Viscosity Calibration Guide

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



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