

Model G105 Gear Flow Meter (Analog) 75 cc/min to 105 liters/min

SPECIFICATIONS

Flow Range 75 cc/min to 105 liters/min

Accuracy (at 30 cP) ± 0.3% of reading over a 100:1 range, or

± 2mV (or 4μA), whichever is greater

Maximum Operating Pressure 414 bar (6000 psi)

38 cc/rev Displacement Weight 7.7 kg Recommended Filtration 30 micron

Port Size(s) 3/4" NPT or #10 SAE

Fluids Most non-aqueous, hydrocarbon based fluids



MATERIALS OF CONSTRUCTION

Body Stainless steel, type 303 Gears and Shafts Stainless steel, type 17-4

Bearings All ball bearings, 440C stainless steel

Seals Viton®- standard, Teflon®, Perfluoroelastomer – optional

ANALOG TRANSMITTER

Output Signal Any range of ± 10V or ± 20mA Linearized and damped with anti-dither protection.

Two Models: 12Vdc @ 90 mA, 24Vdc @ 45 mA Power Supply Requirements **Ambient Operational Range** -40°C to 80°C, Single piece – Two piece to 110°C

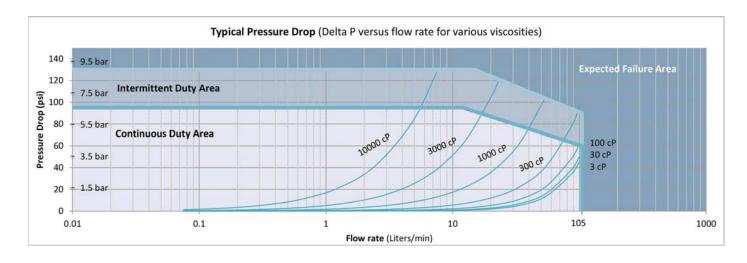
Metered Liquid Temp Range (based on 20° ambient) -40°C to 90°C, Standard model

-40°C to 155°C, Two piece high temperature model

-40°C to 225°C, Two piece, ultra high temperature model

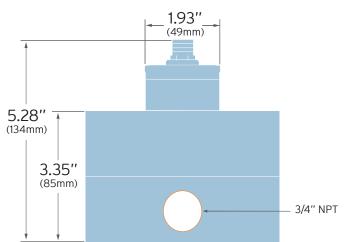
Compliance CE Certified, Ex-proof version available with ATEX/IECEx II 2 G Ex db IIB Tx Gb as well

as UL, cUL certification for Class 1, Division 1, Groups C and D, Tx

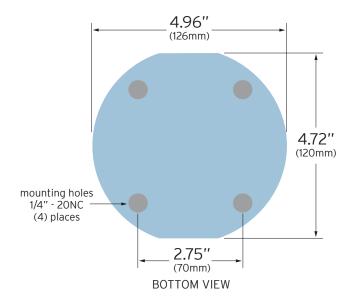


Model G105 Flow Meter (Analog)

CONNECTIVITY/DIMENSIONS (Not to scale)



MODEL G105 WITH INDUSTRIAL HOUSING TRANSMITTER



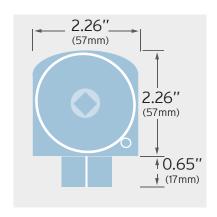
1/2" (57mm)

1/2" (144mm)

3.35" (85mm)

3/4" NPT

MODEL G105 WITH EX-PROOF HOUSING TRANSMITTER

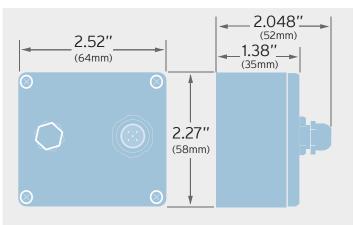


EX-PROOF HOUSING TOP VIEW

ELECTRICAL CONNECTION - ANALOG TRANSMITTERS

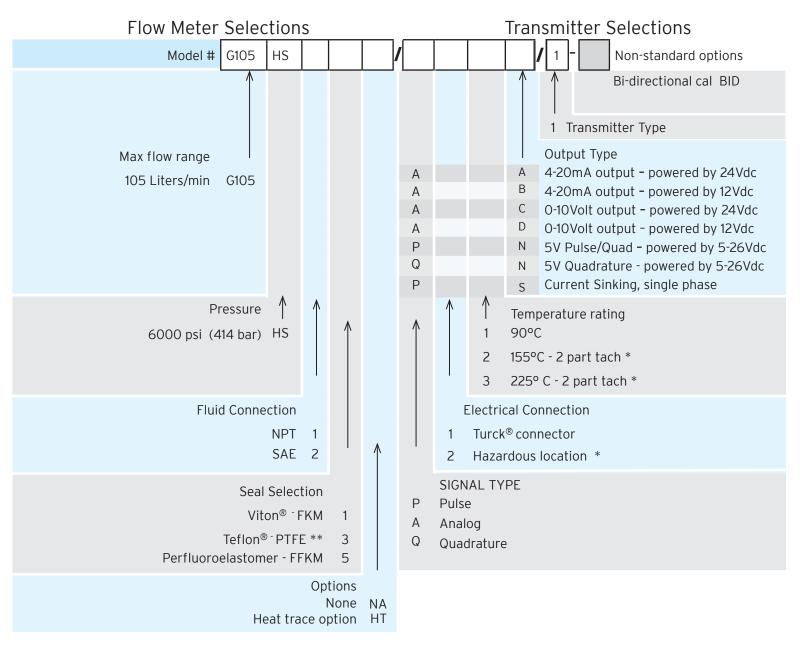
4 3 5		Turck® Connector	
	PCA Label	Pin #	Mating Cable Wire Color
Power *	V+	1	Brown
Common	Com	4	Black
Signal Output (+)	Sig	5	Grey
Signal Output (-)	Ret	2	White
Case Ground	Case	3	Blue

^{*} Please specify 12Vdc or 24Vdc operation



REMOTE PCA ENCLOSURE FOR HIGH TEMPERATURE TRANSMITTERS (2 meter interconnect cable, not shown)

Positive Displacement Flow Meters Gear Type, G Series



Product includes single directional calibration, bi-directional calibrations for Analog and Quadrature devices are optional.

^{*} Consult factory regarding 130°C maximum and other temperature limitations for hazardous location installations.

^{**} Teflon® seals are not suitable for operating temperatures above 90°C for these high pressure products.