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

SPECIFICATIONS

Flow Range 75 cc/min to 105 liters/min

Accuracy (at 30 cP) \pm 0.3% of reading over a 100:1 range

Maximum Operating Pressure 414 bar (6000 psi)

Displacement 38 cc/rev
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

FREQUENCY TRANSMITTER

Output Signal 5 Vdc square wave – Current Sinking, 20mA max.- optional Output Resolution Selectable: 1 - 1000 pulses/rev (0.25 - 25 pulses/cc)

Optional Quadrature square wave, 1 - 500 pulses/revolution/channel

Power Supply Requirements 5 - 26 Vdc, @ 30 mA

Ambient Operational Range -40°C to 80°C, Single piece – Two piece to 110°C

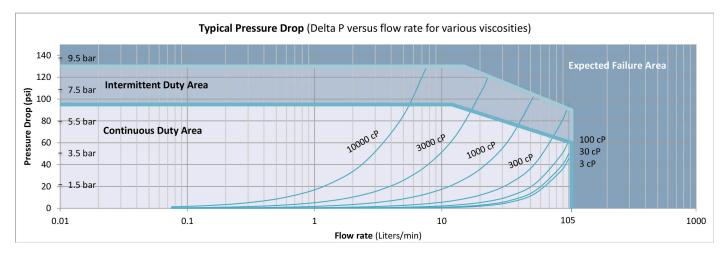
Metered Liquid Temp Range -40°C to 90°C, Standard model (based on 20° ambient) -40°C to 155°C. Two piece high:

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

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

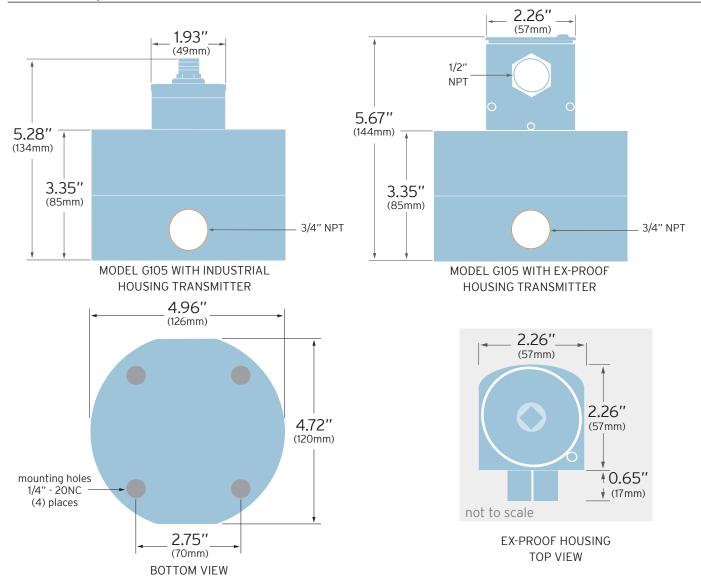
Compliance CE Certified, Ex-proof version available with ATEX/IECEx II 2 G Ex d IIB Tx Gb as well

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



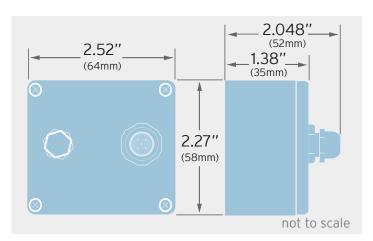
Model G105 Flow Meter (Frequency)

CONNECTIVITY/DIMENSIONS



ELECTRICAL CONNECTION -FREQUENCY TRANSMITTERS

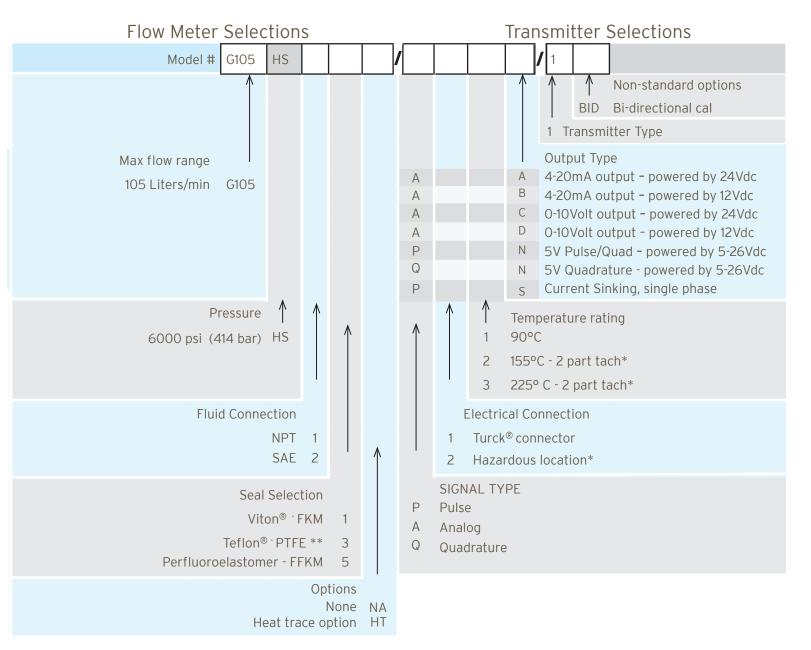
4 3 5 1 2	Turck® Connector		
	Pin #	Mating Cable Wire Color	NPT model
Case Ground	3	Blue	Case
Common	4	Black	Com
Power (+5-26 Vdc)	1	Brown	V+
Single Phase:			
Pulse Output	2	White	Ph A
N/A	5	Grey	NC
Quadrature:			
Output Phase A	2	White	Ph A
Output Phase B	5	Grey	Ph B



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 $^{\text{@}}$ seals are not suitable for operating temperatures above 90°C for these high pressure products.