Max Machinery, Inc.

Model G240 Gear Flow Meter (Analog)
250 cc/min to 240 liters/min

SPECIFICATIONS

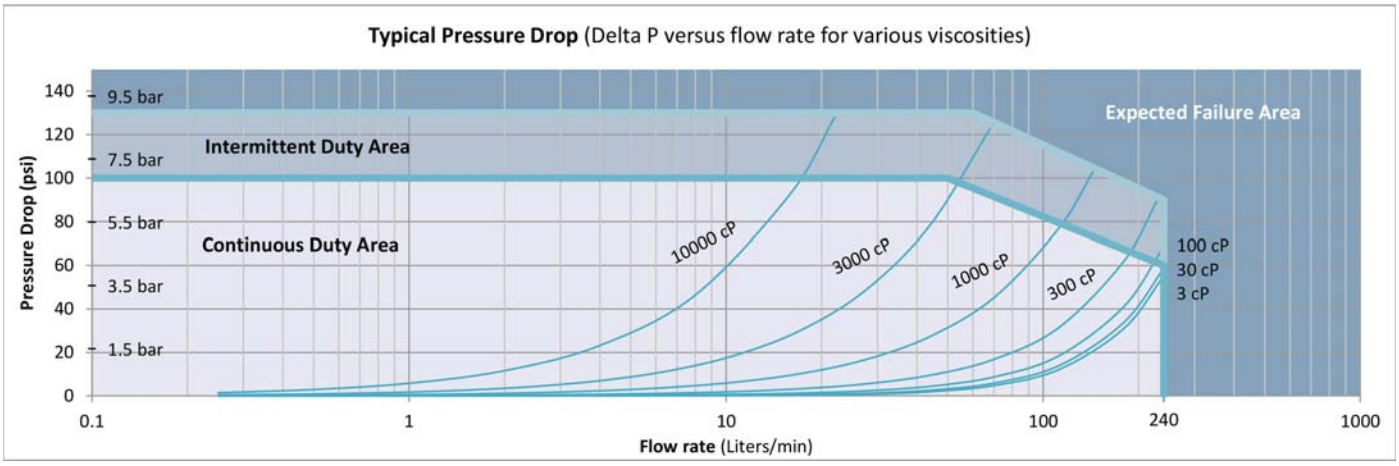
Flow Range	250 cc/min to 240 liters/min
Accuracy (at 30 cP)	± 0.3% of reading over a 100:1 range, or ± 2mV (or 4µA), whichever is greater
Maximum Operating Pressure	275 bar (4000 psi) - NPT fittings 414 bar (6000 psi) - SAE fittings
Displacement	133 cc/rev
Weight	21 kg
Recommended Filtration	30 micron
Port Size(s)	1" NPT or #16 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

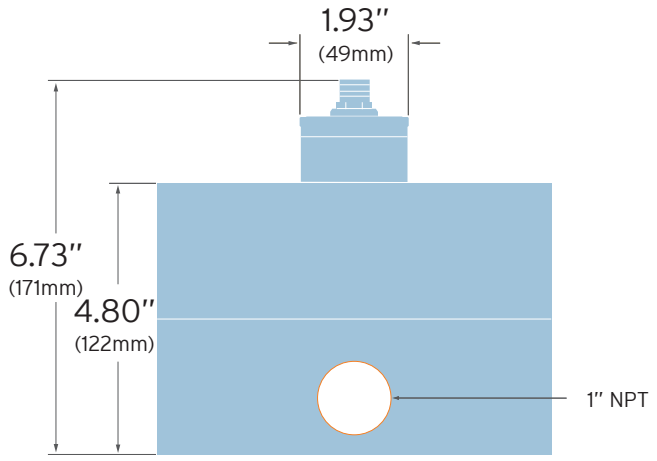
ANALOG TRANSMITTER

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

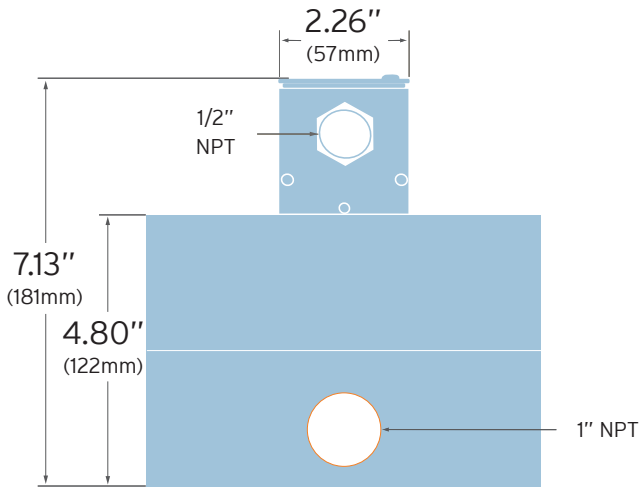


Model G240 Flow Meter (Analog)

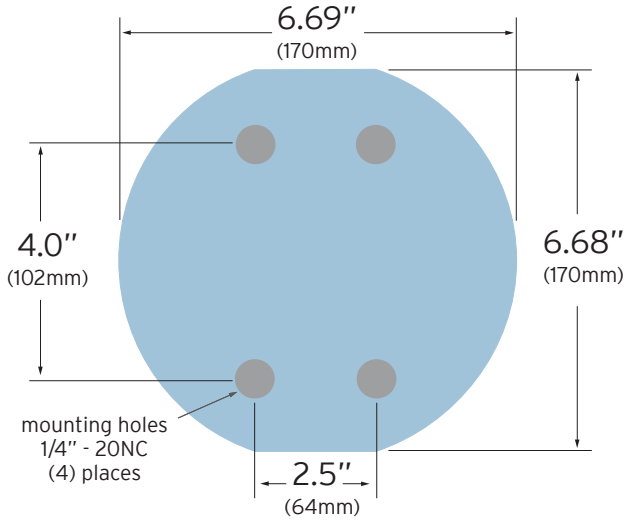
CONNECTIVITY/DIMENSIONS (Not to scale)



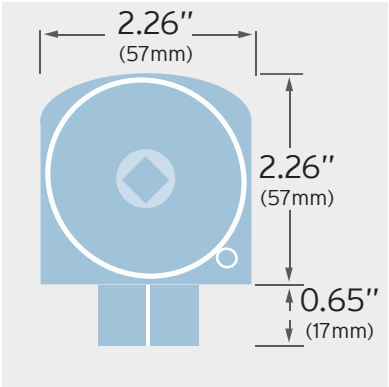
MODEL G240 WITH INDUSTRIAL HOUSING TRANSMITTER



MODEL G240 WITH EX-PROOF HOUSING TRANSMITTER

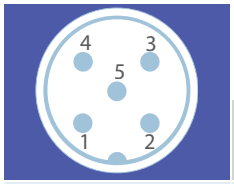


BOTTOM VIEW



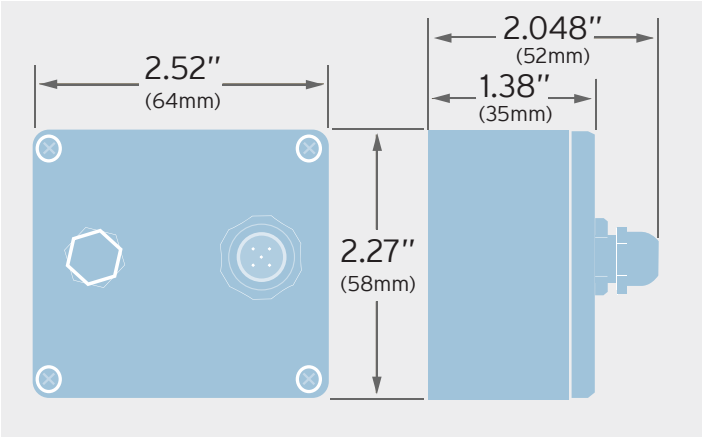
EX-PROOF HOUSING TOP VIEW

ELECTRICAL CONNECTION – ANALOG TRANSMITTERS



		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)

Max Machinery, Inc.
an ISO 9001:2008 certified company

Positive Displacement Flow Meters
Gear Type, G Series

Flow Meter Selections

Transmitter Selections

Model # G240 HS [ ] [ ] [ ] / [ ] [ ] [ ] [ ] / 1 - [ ] Non-standard options

Bi-directional cal BID

1 Transmitter Type

Output Type

A	A	4-20mA output – powered by 24Vdc
A	B	4-20mA output – powered by 12Vdc
A	C	0-10Volt output – powered by 24Vdc
A	D	0-10Volt output – powered by 12Vdc
P	N	5V Pulse/Quad – powered by 5-26Vdc
Q	N	5V Quadrature - powered by 5-26Vdc
P	S	Current Sinking, single phase

Max flow range

240 Liters/min G240

Pressure

6000 psi (414 bar) HS

Note: G240 limited to 4000 psi (275 bar) if specified with NPT connections

Temperature rating

1 90°C

2 155°C - 2 part tach*

3 225° C - 2 part tach*

Fluid Connection

NPT 1

SAE 2

Electrical Connection

1 Turck® connector

2 Hazardous location*

Seal Selection

Viton® - FKM 1

Teflon® - PTFE ** 3

Perfluoroelastomer - FFKM 5

SIGNAL TYPE

P Pulse

A Analog

Q Quadrature

Options

None NA

Heat trace option HT

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.