# Model P214 Piston Flow Meter (Frequency) 5 cc/min to 10,000 cc/min

### **SPECIFICATIONS**

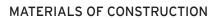
Flow Range 5 cc/min to 10,000 cc/min

Accuracy (at 3 cP)  $\pm$  0.2% of reading over a 200:1 range

Maximum Operating Pressure 210 bar (3000 psi)

Displacement 10.5 cc/rev
Weight 3.8 kg
Recommended Filtration 10 micron

Port Size(s) 3/8" NPT, #6 SAE or manifold mount Fluids Most non-aqueous, organic liquids



Body Stainless steel, type 303

Pistons Nitride hardened stainless steel, type 303

Crankshaft Stainless steel

Bearings All ball bearings, 440C stainless steel

O Rings 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

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

Power Supply Requirements 5-26 Vdc @ 30ma

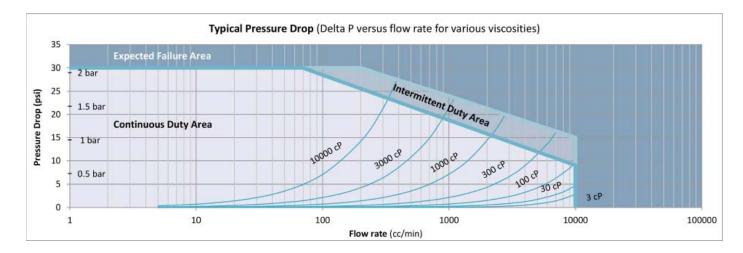
Ambient Operational Range -40°C to 80°C, Single piece - Two piece to 110°C

Metered Liquid Temp Range -40°C to 90°C, Standard model

(based on 20° ambient) -40°C to 225°C, Two piece high temperature model

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

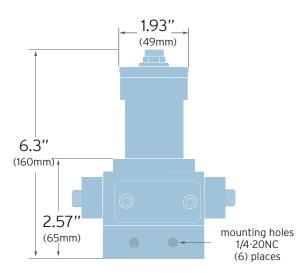
as UL, cUL certification for Class 1, Division 1, Groups C and D, Tx



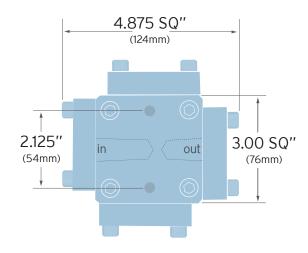


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## CONNECTIVITY/DIMENSIONS (Not to scale)

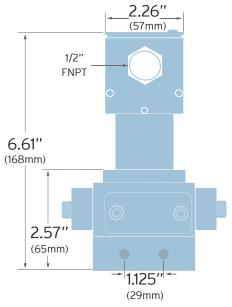


MODEL 214 WITH INDUSTRIAL HOUSING TRANSMITTER

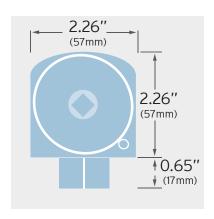


ELECTRICAL CONNECTION -FREQUENCY TRANSMITTERS

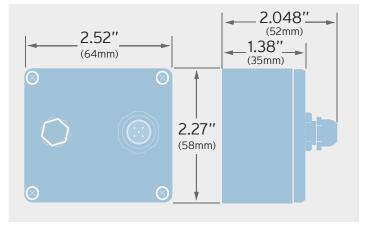
1 2		Turck® Connector	
	PCA Label	Pin #	Mating Cable Wire Color
Power (+5 to 26 Vdc)	V+	1	Brown
Common	Com	4	Black
Pulse Output	Ph A	2	White
Output Phase B (Quad only)	Ph B	5	Grey
Case Ground	Case	3	Blue



MODEL 214 WITH EX-PROOF HOUSING TRANSMITTER

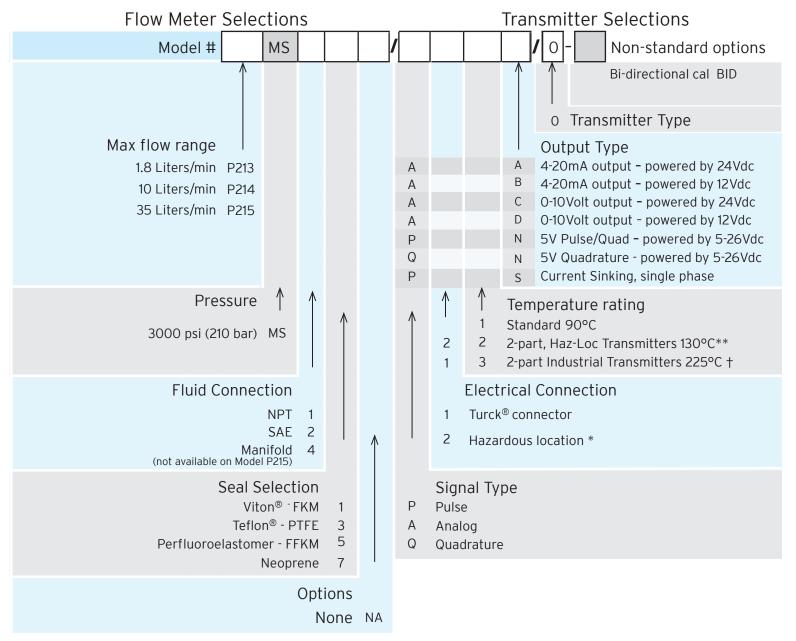


EX-PROOF HOUSING TOP VIEW



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

## Positive Displacement Flow Meters Piston Type, 3000 psi (210 bar) rated



#### Calibration

Price includes unidirectional calibration

<sup>\*</sup> See temp chart

<sup>\*\*</sup> Receiver portion of 2 part transmitters are not rated Ex-Proof, consult factory

<sup>†</sup> Not available for hazardous location use. (Exceeds 130°C temp. limit.)