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 3000 psi (210 bar)

Weight 3.8 kg
Recommended Filtration 10 micron

Port Sizes 3/8" NPT, #6 SAE or manifold mount

Fluids Most non-aqueous, hydrocarbon based fluids



MATERIALS OF CONSTRUCTION

External Stainless steel, type 303

Wetted Stainless steel, type 303, 440C;

Cobalt based carbide

O-Rings Standard: Viton®

Optional: Teflon®, Perfluoroelastomer, Neoprene

FREQUENCY TRANSMITTER

Output Signal Standard: 5 Vdc, single phase

Optional: Quadrature 5 Vdc, two phase

Current sinking, 20 mA max., single phase

K-Factor Single Phase: 90 pulses/cc

Two Phase: 180 pulses/cc, 4x decoded

(45 pulses/cc/phase, 1x decoded)

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

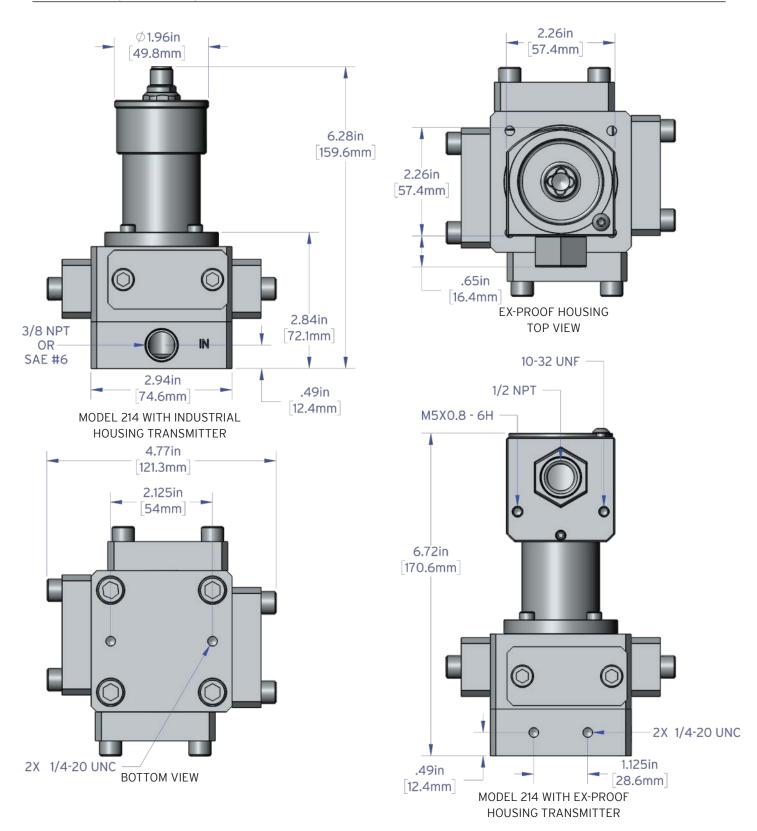
(based on 20° ambient) -40°C to 225°C, Two piece high temperature model

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

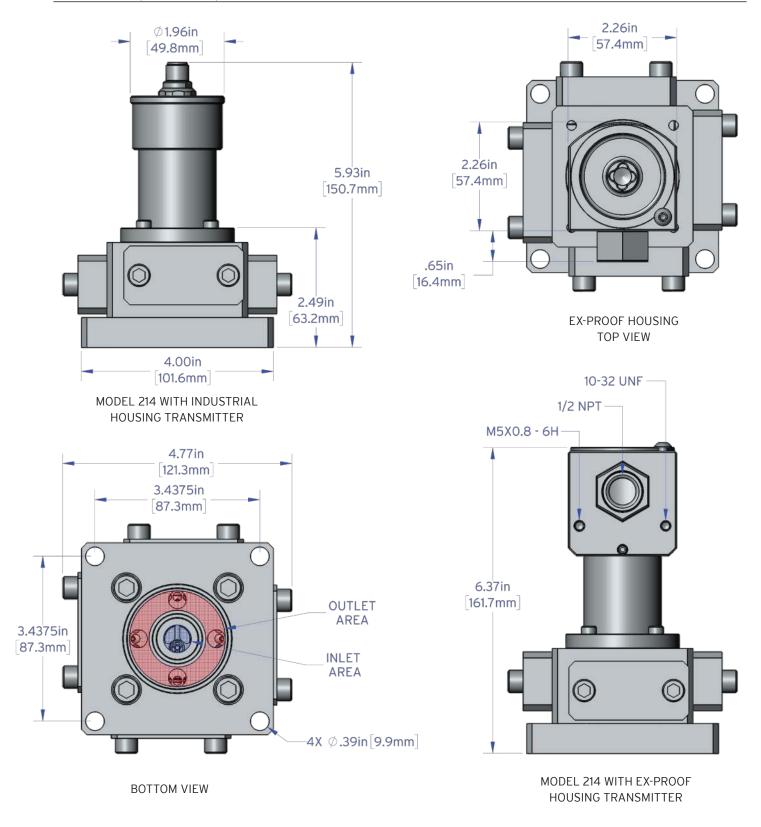
Model P214 Piston Flow Meter (Analog)

DIMENSIONS (Not to scale)



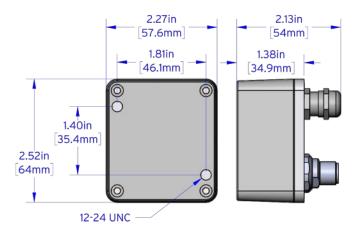
Model P214 Piston Flow Meter (Analog)

DIMENSIONS (Not to scale)



Model P214 Flow Meter (Frequency)

DIMENSIONS (Not to scale)



REMOTE PCA ENCLOSURE FOR HIGH TEMPERATURE TRANSMITTERS

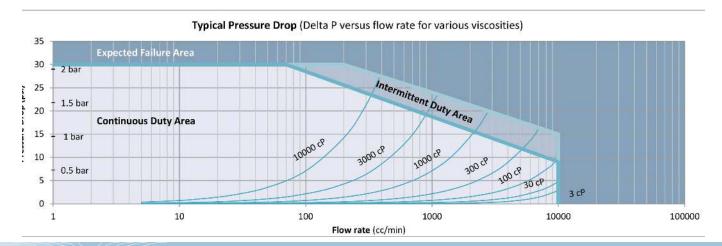
(Not Shown: Industrial 2 meter interconnect cable included, Ex-Proof user supplied interconnect cable required)

CONNECTIVITY

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		

PRESSURE DROP GRAPH



Positive Displacement Flow Meters

Piston Type, P-Series 3000 psi (210 bar) rated											
Flow Meter Selections Transmitter Selections											
Model #	MS			/				/ 0	-	Non-Standard Optic	ns
										Bi-Directional Cal: BID	
							O Transmitter Type				
Max Flow Range					Output Type						
1.8 Liters/Min P213			A 4-20mA Output - Powered by 24				ut - Powered by 24 Vdc				
10 Liters/Min P214				Α			В	4-20m	nA Outp	ut - Powered by 12 Vdc	
35 Liters/Min P215				Α			С	0-10 V	olt Out	out - Powered by 24 Vdc	
				Α			D	0-10 V	olt Out	out - Powered by 12 Vdc	
				Р			N			q Powered by 5-26 Vdc	
				Q			N			re - Powered by 5-26 Vdc	
				Р			S	Curre	nt Sinkiı	ng, Single Phase	
Pressure							Tem	perat	ure Ra	ting	
3000 psi (210 bar)	MS					1 90°C Industrial / 75°C Haz-Loc					
					2 130°C Haz-Loc, 2 Part **						
Fluid Connection						3	225°	C Indus	strial, 2	Part †	
	NPT 1					Εle	ectric	cal Cor	nnectio	on	
	SAE 2				1	Ind	ustria	al, Turck	® Conn	ector	
	Manifold 4 (Not available on model P215)				2	2 Hazardous Location, 1/2 Inch Conduit*				2 Inch Conduit*	
Seal Se	election										
Vitor	า® - FKM	1			Siç	gnal	Тур	е			
Teflon	® - PTFE	3		Р	P Pulse						
Perfluoroelastome	er - FFKM	5		Α	A Analog						
N	Veoprene	7		Q	Q Quadrature						
Options										_	

- See temp chart in product manual. Receiver portion of 2 part transmitters are not rated Ex-Proof, consult factory.

None NA

Heat Trace Option HT

† Not available for hazardous location use. (Exceeds 130°C temp. Limit.) Product includes single directional calibration, bi-directional calibrations for Analog and Quadrature devices are optional.

