

P341



Homogenizer Pressure Transmitter

*Rugged all stainless steel sensor with no liquid fill
Extremely low clamping effect*

Designed for the highest system integrity

The P341 Pressure Transmitter is designed for the OEM and end user where ruggedness, high performance, and reliability are required at a competitive price. Key feature of the P341 is its non oil-filled sensing element. The sensing diaphragm is machined from a solid piece of steel, and can withstand the most abrasive / cyclical applications.

Hasteloy or Inconel sensors available

Manufactured for extended life cycle

Tel-Tru's engineers developed this product to last in high cyclical environments with or without the presence of water hammering or spiking. Advanced manufacturing techniques, extreme environmental burn-in and thorough residual stress relieving procedures ensure the P341 maintains its performance over time.

Calibration Certificate

Every P341 is shipped with a NIST traceable calibration certificate



*Designed for
wash-down areas*

Standard Features

- ≤ 0.5% FSO Static Accuracy
- NEMA 4X Packaging
- ≤ 0.25% FSO /YR stability

Available Options

- ≤ 0.25% FSO Static Accuracy
- Alternate Wetted Materials
- Shunt Cal



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P341 Homogenizer



Non-Filled Flush Mount, Low Clamping Effect, Designed for High Cycles
0-100 psi through 0-20k psi

Product Specifications

Electrical

Excitation	
P341C	2-15 Vdc
P341A/P341B	8-38 Vdc*
Output	
P341C	1-2 mV/V*
P341B	0-5 Vdc*
P341A	4-20 mAdc
Zero Balance	±1% FSO
FSO Setting	±1% FSO
Resolution	Infinite (±.001% FSO usable)
Response Time	
P341C	< 0.5 mS
P341A/P341B	< 3 mS
Insulation Resistance	1000 MΩ @ 50 Vdc
Reverse Polarity	Protected
Power Supply Effect	±.002 % FSO per V input (P341A & P341B)
EMI/RFI	Internal Filtering (P341A & P341B)
Short Circuit Protected Up to 40 Vdc (P341A & P341B)	

Mechanical

Pressure Ranges	0-100 through 0-20,000 psi (Customer may specify any range/eng. unit FOC) (Absolute, vacuum, compound available options)
Proof Pressure	2X Full Scale*
Burst Pressure	5X Full Scale* (15,000 psi max)
Materials	
Wetted Parts*	15-5 SST*
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	Standard Gaulin Homogenizer
Electrical Connector	NEMA 4X cable exit (24" cable)*
Dimensions	per outline below
Weight	nominal 10 oz

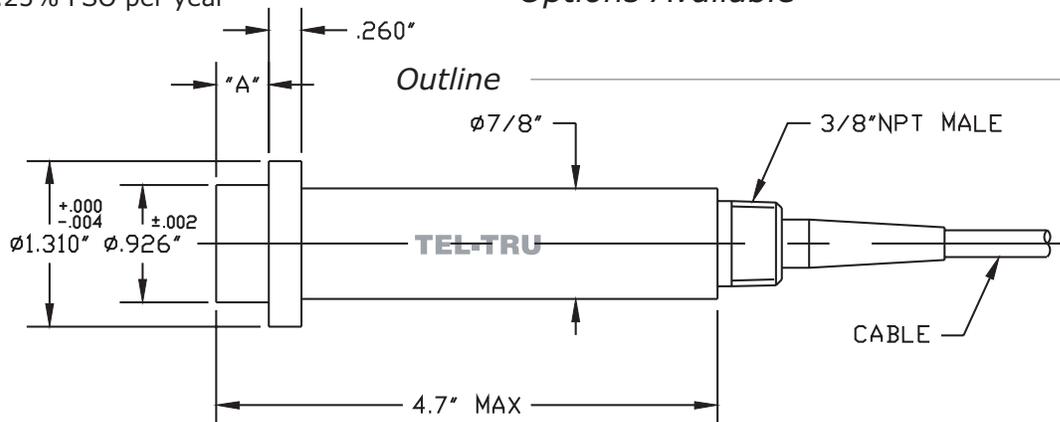
Performance

Static Accuracy	±0.5% FSO* (BFSL, RSS)* (combined effects of non-linearity, hysteresis & repeatability)
Repeatability	±0.1% FSO
Temperature Effects	±1.5% FSO over comp range* (combined effects of Zero & FSO with reference at 70 °F)
Long Term Stability	±0.25% FSO per year

Environmental

Compensated Temp Range	0 to 170 °F
Operating Temp Range	-40 to 200 °F
Storage Temp Range	-40 to 250 °F

*Options Available



Standard Wiring:

Model	Output	+ Power	- Power	+ Signal	- Signal
FD1	mV/V dc 4 wire	Red/Pin 1/Pin A	Black/Pin2/PinB	Green/Pin 3/Pin C	White/Pin 4/Pin D
FD2	0-5 (10) Vdc 3 Wire	Red/Pin 1/Pin A	Black/Pin2/PinB	Green/Pin 3/Pin C	+Sig ref to-Power
FD3	4-20 mAdc 2 Wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

Tel-Tru reserves the right to change specifications without prior notification. Please contact the factory for the latest revision.