

# 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

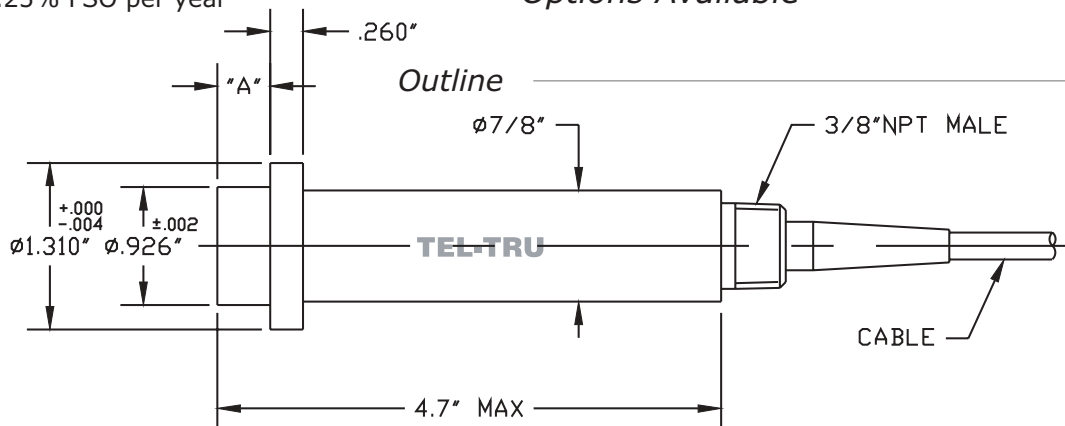
### Performance

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.

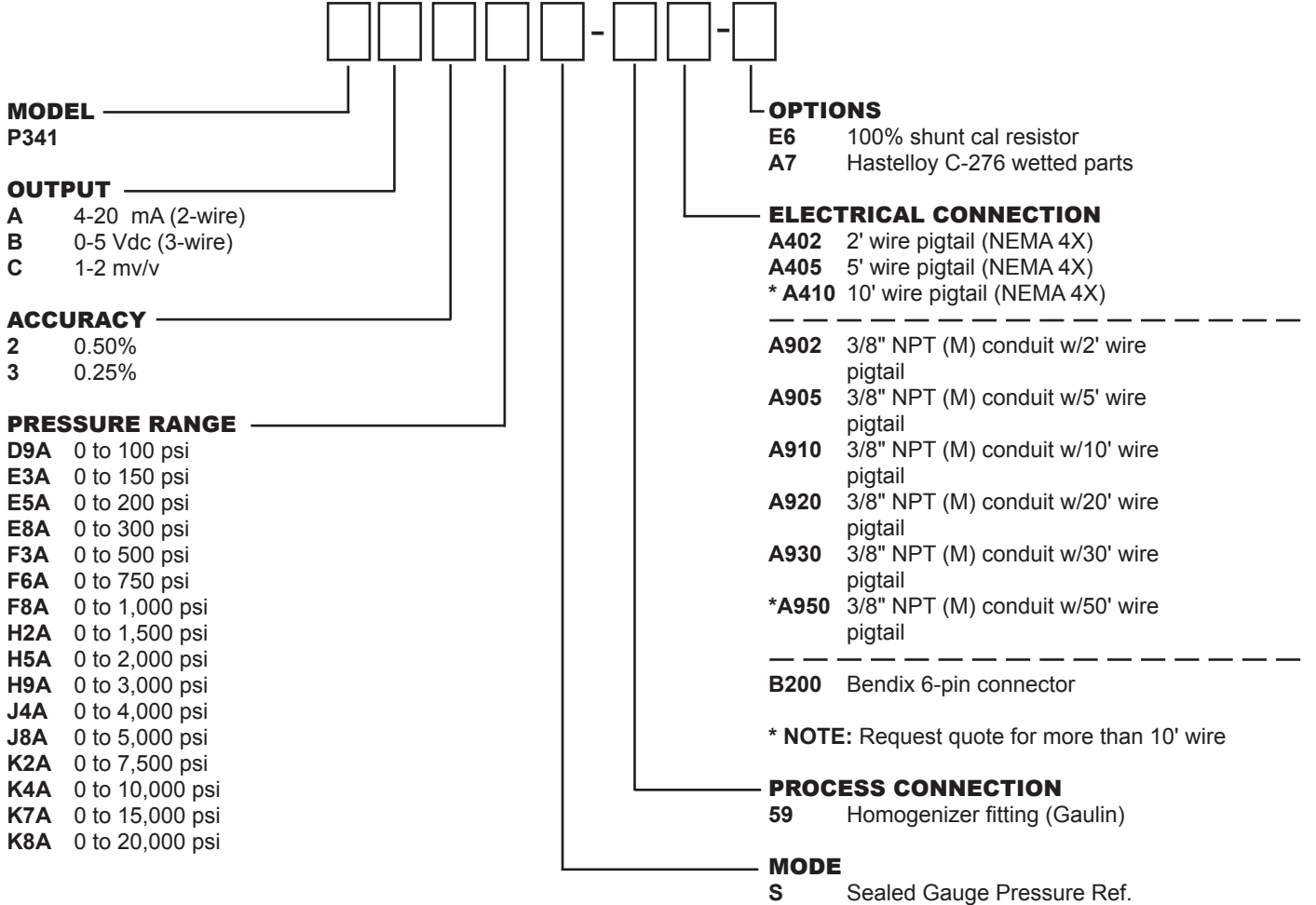
# TEL-TRU PRESSURE TRANSMITTERS

## Sanitary Series Model P341 - Homogenizer

**HOW TO ORDER EXAMPLE:**

Sanitary, 4-20 mA, 0.50% Accuracy, 0 to 3000 psi, Sealed Pressure, Homogenizer fitting, 2 ft. Wire Pigtail (NEMA 4X), Hastelloy C-276 wetted parts.

Example: **P341 A 2 H9A S - 59 A410 - A7**



**MODEL**  
P341

**OUTPUT**  
**A** 4-20 mA (2-wire)  
**B** 0-5 Vdc (3-wire)  
**C** 1-2 mv/v

**ACCURACY**  
**2** 0.50%  
**3** 0.25%

**PRESSURE RANGE**  
**D9A** 0 to 100 psi  
**E3A** 0 to 150 psi  
**E5A** 0 to 200 psi  
**E8A** 0 to 300 psi  
**F3A** 0 to 500 psi  
**F6A** 0 to 750 psi  
**F8A** 0 to 1,000 psi  
**H2A** 0 to 1,500 psi  
**H5A** 0 to 2,000 psi  
**H9A** 0 to 3,000 psi  
**J4A** 0 to 4,000 psi  
**J8A** 0 to 5,000 psi  
**K2A** 0 to 7,500 psi  
**K4A** 0 to 10,000 psi  
**K7A** 0 to 15,000 psi  
**K8A** 0 to 20,000 psi

**OPTIONS**  
**E6** 100% shunt cal resistor  
**A7** Hastelloy C-276 wetted parts

**ELECTRICAL CONNECTION**  
**A402** 2' wire pigtail (NEMA 4X)  
**A405** 5' wire pigtail (NEMA 4X)  
**\* A410** 10' wire pigtail (NEMA 4X)  


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**A902** 3/8" NPT (M) conduit w/2' wire pigtail  
**A905** 3/8" NPT (M) conduit w/5' wire pigtail  
**A910** 3/8" NPT (M) conduit w/10' wire pigtail  
**A920** 3/8" NPT (M) conduit w/20' wire pigtail  
**A930** 3/8" NPT (M) conduit w/30' wire pigtail  
**\*A950** 3/8" NPT (M) conduit w/50' wire pigtail  


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**B200** Bendix 6-pin connector

**\* NOTE:** Request quote for more than 10' wire

**PROCESS CONNECTION**  
**59** Homogenizer fitting (Gaulin)

**MODE**  
**S** Sealed Gauge Pressure Ref.

**ACCESSORIES (to be ordered separately)**  
**P341-01** Homogenizer flange 1-1/8"  
**P341-02** Homogenizer flange 7/8"

**PRICES INCLUDE:**  
 • Certificate of Calibration (directly traceable to NIST)

**IMPORTANT NOTE:**  
 Available Upon Request--Additional Options (consult factory):

- Process Connections
- Electrical Connections and more than 10' wire
- Pressure Ranges/Unit of Measure

