

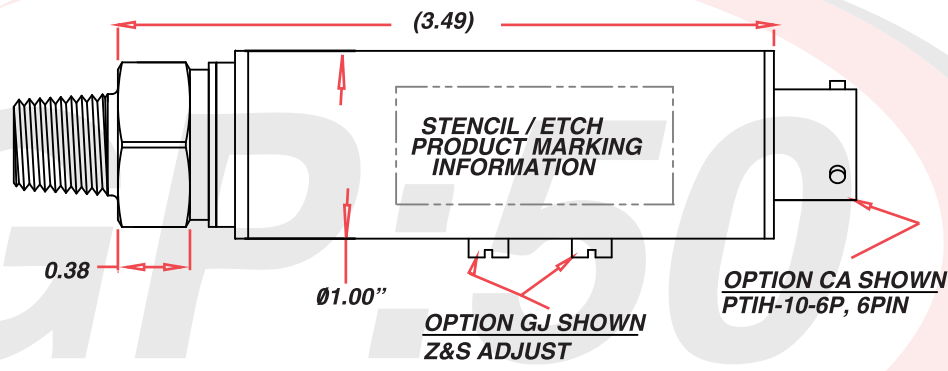
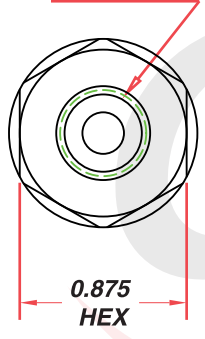
# High Accuracy Pressure Transducer

## Pressure - Level - Temperature Products

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### Model 241 / 341

**OPTION FJ SHOWN**  
1/4 NPT (M)



PIN	Model 241	Wire Color	Model 341	Wire Color
A/1	+EXC	RD	+EXC/SIG	RD
B/2	+SIG	GN	-EXC/SIG	BK
C/3	Case GND	Shield	Case GND	Shield
D/4	-EXC/SIG	BK	N/C	BL
E/5	N/C	BN	N/C	BN
F/6	N/C	OR	N/C	OR

### Features

- High accuracy to  $\pm 0.05\%$  FSO (Max.)
- High thermal stability
- Compact, light weight design
- 1 millisecond response time
- High amplitude / High frequency rated

### Field Options

The Model 241/341 offers optional zero and span adjustment, shunt calibration for active line testing without a pressure source as well as a comprehensive list of process and electrical connections to retrofit existing applications.

### Applications

- Dyno's
- Transmission Testing
- Brake Testing
- Hydraulic & Pneumatic Valve testing
- Jet Engine Testing
- Emission Test Stands

The Model 241/341 also offers accuracies from  $\pm 0.25\%$ ,  $\pm 0.1\%$  and  $\pm 0.05\%$  as well as improved thermal accuracies over a -40 to 185°F compensated range.

### Designed for Test Stands

GP:50's Model 241/341 is our most accurate pressure transducer designed specifically for test stand applications. Over 25 years of aerospace expertise went into the design of this transducer to provide high accuracy with high reliability. Static accuracy is available to  $\pm 0.05\%$  FSO with a total thermal error of  $\pm 0.25\%$  FSO over the compensated temperature range. The all welded, compact, SST design provides more space in tight installations.

### Proven Record

GP:50 has over 25 years of field experience with a strong aerospace heritage. We provide some of the most accurate, reliable pressure transducers on the market. GP:50 provides products rated from sub-sea to deep space, designed for your specific needs. With over 25 years of market experience we have the ability to provide products that can perform in some of the toughest environments.

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

# High Accuracy Pressure Transducer

## Pressure - Level - Temperature Products

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### Model 241 / 341

#### Electrical

- **Supply Voltage:**  
9-32 Vdc (Some options may affect this)
- **Output Signal:**  
(Model 241) 0-5 Vdc  $\pm 0.50\%$  FSO (Max.)  
(Model 341) 4-20 mA  $\pm 0.50\%$  FSO(Max.)
- **Zero Balance:**  $\pm 0.50\%$  FSO
- **Load Resistance:**  
(Model 241) 100k ohm minimum  
(Model 341) 1150 ohms maximum at 32 Vdc
- **Circuit Protection:**  
Reverse polarity protected.  
Output may be grounded indefinitely.  
Over voltage protection to 1kV for <1m Sec.
- **Response Time:** 1 millisecond typical
- **Connection:** PTIH-10-6P Standard,

#### Materials of Construction

- **Wetted Parts:**  
< 50 PSI: All 316 Stainless Steel  
50-5,000 PSI: 316 + 17-4ph SST
- **Housing:** 300 Series SST

#### Static Accuracy

Including Hysteresis, Non-linearity, and Non-Repeatability using BFSL Method

- $\pm 0.25\%$  FSO Max. ( $\pm 0.10\%$   $\pm 0.05\%$  FSO optional)

#### Mechanical

- **Process Connection:** 1/4" NPT Male Standard

Other Connections Available

- **Proof Pressure:** Typically 2X - 3X range up to 22,500 PSI maximum (varies by pressure range)
- **Burst Pressure:** 5x's range up to 22,500 PSI maximum

Options available, consult factory

#### Pressure Ranges

- 0-30" WC thru 15,000 PSI Gauge, Vacuum, Absolute

#### Thermal Specifications

- **Compensated:** 30° F to 185° F Ambient  
(Other ranges available)
- **Operating Ambient:** -40° F to 185° F
- **Operating Process:** -40° F to 220° F
- **Storage:** -40° F to 250° F Ambient
- **Effect on Zero/Span:**  
Standard:  $\pm 1\%$  FSO/100° F. maximum  
Improved:  $\pm 0.50\%$  FSO/100° F. maximum  
\*\*Ultimate:  $\pm 0.25\%$  FSO/100° F. maximum  
\*\*Only available on ranges 0-30"  
WCG thru 0-1,000 PSIG

#### Formats

- 2 - Gage
- 3 - Absolute
- 4 - Vacuum
- 6 - Sealed gage
- 10 - Compound Range

#### Static Accuracy Options

- **C:**  $\pm 0.25\%$  FSO maximum
- **D:**  $\pm 0.10\%$  FSO maximum
- **E:**  $\pm 0.05\%$  FSO maximum

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