

HIGH-ACCURACY PRESSURE TRANSDUCER

MODEL 241 / 341

FEATURES:

- High accuracy to $\pm 0.05\%$ FSO
- High thermal stability +/-0.25% FSO/100 °F
- -40 to +250 °F compensation
- Compact, lightweight, all stainless steel design
- Less than 4 millisecond response time

APPLICATIONS:

- Dynamometer testing
- Transmission testing
- Brake testing
- Hydraulic & Pneumatic valve testing
- Jet engine testing
- Emission test stands

PRODUCT OVERVIEW:

Model 241/341 from GP:50 is our most accurate pressure transducer. It is designed specifically for aerospace and automotive test stand applications. More than 25 years of field expertise went into the design of a pressure transducer for exceptional reliability. The compact, corrosion-resistant, all-welded stainless steel design of the Model 241/341 offers ease of installation within space constrained environments. Static accuracy is available to $\pm 0.05\%$ FSO, with a total thermal error of 0.20% FSO over the compensated temperature range.

FIELD OPTIONS:

- Optional zero and span adjustment
- Shunt calibration for active line testing without a pressure source
- Comprehensive list of process and electrical connections for existing application retrofits



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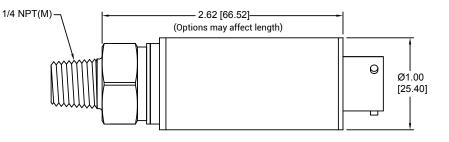
Model 241 / 341 High-Accuracy Pressure Transducer

GP:50 MODEL 241 / 341

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

MODEL 241 WIRING		MODEL 341 WIRING	
PIN/WIRE	DESCRIPTION	PIN/WIRE	DESCRIPTION
A/1/RED	+EXC	A/1/RED	+EXC
B/2/GRN	+SIG	B/2/BLK	-EXC/SIG
C/3/-	N/C	C/3/-	N/C
D/4/BLK	-EXC/SIG	D/4/BLU	PROGRAM GND
E/5/BRN	N/C or SHUNT	E/5/BRN	N/C or SHUNT
F/6/ORG	PROGRAM	F/6/ORG	PROGRAM



REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL	
 Supply Voltage: 9 to 32 Vdc (some options may affect this) Output Signal: (Model 241) 0 to 5 Vdc (Model 341) 4-20 mA Load Resistance: (Model 241) 100K Ω min. (Model 341) 1150 Ω max. at 32 Vdc Circuit Protection: 	 Process Connection: 1/4" NPT (M) (consult factory for complete list of options) Proof Pressure: 2X FSO or 22.5K PSI max. (1,551 BAR) (varies by pressure range) Burst Pressure: 5X FSO or 22.5K PSI max. (1,551 BAR) Random Vibration: 25 G RMS (20 to 2000 Hz) Shock: 100G peak for 11 msec, ½ Sine 	
Reverse polarity protected Output may be grounded indefinitely	PRESSURE RANGES	
Over voltage protection to 1kV for <1ms • Response Time: <4 msec typical	• 0-30" WC thru 20K PSI (1,379 BAR) Gauge, Vacuum, Absolute, Sealed Gauge (both hermetic and non-hermetic)	
Connection: PTIH-10-6P	THERMAL SPECIFICATIONS	
MATERIALS OF CONSTRUCTION • Wetted Parts: ≤2,000 PSI: 316L SST w/silicon oil fill (Other fill available), Hastelloy optional >2,000 PSI: 17-4 PH SST, Inconel 718, 316L SS optional • Housing: 300 series SST	 Compensated: 0 °F to +180 °F (-18 °C to +82 °C) Effect on Zero/Span: ±0.5% FSO/100 °F each (±1.0% FSO/100 °F from -40 to 185 °F / (-40 °C to +85 °C) Operating Temp: -40 °F to +250 °F (-40 °C to +121 °C) Storage Temp: -40 °F to +250 °F (-40 °C to +121 °C) 	
STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F) • $\pm 0.10\%$ and $\pm 0.05\%$ FSO • Zero Balance and FSO: $\pm 0.5\%$ FSO @ 70 °F	Improved performance options: • Expanded Ranges: -40 °F to +250 °F (-40 °C to +121 °C) • Improved Performance: ±0.20% FSO/100 °F (-40 °F to +250 °F (-40 °C to +121 °C))	

Standard configurations shown. Please consult factory for other options.

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.

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