MODEL 241 / 341

FEATURES:

- High accuracy to ±0.05% FSO
- High thermal stability +/-0.20% 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 ±0.05% FSO, with a total thermal error of 0.25% 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
DIMENSIONAL DRAWING
All dimensions are in inches (mm)

REFERENCE SPECIFICATIONS

ELECTRICAL

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:
Reverse polarity protected
Output may be grounded indefinitely
Over voltage protection to 1kV for <1ms
Response Time:<4 msec typical
Connection: PTIH-10-6P

MECHANICAL

Process Connection: 1/4" NPT (M)
(output factory for complete list of options)
Proof Pressure: 2X FSO
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

PRESSURE RANGES

• 0-30" WC thru 8K PSI (552 BAR) Gauge, Vacuum, Absolute,
  Sealed Gauge (both hermetic and non-hermetic)

THERMAL SPECIFICATIONS

Compensated: 0 °F to +180 °F (-18 °C to +82 °C)
Effect on Zero/Span: ±0.5% FSO/100 °F standard
(±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)

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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Tel: +1.716.773.9300 Fax: +1.716.773.5019 Email: sales@gp50.com Web: www.gp50.com