MODEL 7201

FEATURES:

- Space flight qualified per MSFC-HDBK-527
- Class “S” qualified electronics
- Radiation hardened to 40 KRAD
- Measurement accuracy to <±0.3% FSO (RSS)
- 0-5 Vdc output
- Designed to meet 7-year LEO requirements
- Compact, lightweight design weighs just 5 oz (0.1 kg)
- Packaging qualified to FED-STD-101 Method 5005/5007

APPLICATIONS:

- Commercial and defense satellites
- Unmanned aerial vehicles
- Onboard aircraft systems
- Avionics
- Spacecraft and launch vehicles
- Ground and engine testing

PRODUCT OVERVIEW:

The Model 7201 from GP:50 is a high-accuracy, low-noise, flight-heritage pressure transducer, designed to provide high-reliability within demanding aerospace environments. The exceptional durability and performance of this transducer has been field proven over more than 25 years and across hundreds of applications.

FIELD OPTIONS:

- “B+ and S Class” electronics
- AS5202-04, AS4395E04 process connections
- D38999/27YB98PN, D38999/27YA35PN electrical connectors
- 0 to 5 Vdc 3-wire hookup, or non-isolated 4-wire hookup
GP:50 MODEL 7201

DIMENSIONAL DRAWING
All dimensions are in inches (mm)

STANDARD WIRING

<table>
<thead>
<tr>
<th>PIN</th>
<th>MODEL 7201</th>
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<tbody>
<tr>
<td>ORG</td>
<td>+15 VDC EXC</td>
</tr>
<tr>
<td>GRN</td>
<td>+OUTPUT</td>
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<tr>
<td>WHT</td>
<td>-OUTPUT</td>
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<tr>
<td>BLU</td>
<td>-EXC</td>
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</tbody>
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7/16-20 UNJF-3A

3.26 [82.80]

3.81 [96.77]

POTTED STRAIN RELIEF

REFERENCE SPECIFICATIONS

ELECTRICAL

- Output Signal: 0 to 5 Vdc
- Supply Voltage: 15 Vdc + 50 mV regulated
- Input Current: 25 mA nominal
- Output Current: 2 mA max for <0.1% FSO attenuation
- Circuit Protection: Designed to meet *MIL-STD-461/EMI/RFI (some options may affect rating) reverse polarity protection
- Response Time: <4 ms
- Connection: Tefzel cable with 4-conductor 32 AWG wire

ACCURACY (Hysteresis, Non-linearity & Repeatability @ +70 °F)

- Static Accuracy (RSS): <±0.3% FSO
- Zero/span balance: ±0.5% FSO
- Non-repeatability: <±0.1% FSO
- Hysteresis: <±0.2% FSO
- Non-linearity: <±0.2% FSO
- Thermal Error: ±0.4% FSO over center
- Total Error Band: ±1.0% FSO (includes all 5 parameters)

MATERIALS OF CONSTRUCTION

- Wetted Parts: Inconel 718 sensor, Inconel 625 port
- Housing: 316L stainless steel

MECHANICAL

- Process connection: AS4395E04 standard, AS5202-04, 1/4” NPT (M) optional
- Proof Pressure: 1.5X FSO
- Burst Pressure: 2.5X FSO
- Secondary containment: Rated at 4,500 PSI (310 BAR) for ranges ≥50 PSI; 2,400 PSI (166 BAR) for ranges <50 PSI
- Random Vibration: >70 G RMS (20 Hz to 2,000 Hz)
- Sinusoidal Vibration: 7.0 G’s from 5 Hz to 100 Hz
- Pyroshock: >4,000 G’s / 12 g
- Constant Acceleration: 5 G’s for 30 minutes
- Approximate Weight: 5 oz (0.1 kg)

PRESSURE RANGES

- 0 to 50 thru 0 to 15K PSIA (3.4 thru 1,034 BAR)

THERMAL SPECIFICATION

- Compensated: -4 °F to +104 °F (-20 °C to +40 °C)
- Operating: -75 °F to +250 °F (-60 °C to +120 °C)
- NIST Traceability/Calibration: ANSI-Z540-1
- Workmanship: J-001/NASA 8739.3 standard

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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Standard configurations shown.
Please consult factory for other options.