



FLIGHT / SPACEFLIGHT HERITAGE HIGH-ACCURACY PRESSURE TRANSDUCER

MODEL 7201

FEATURES:

- Space flight qualified per MSFC-HDBK-527
- Class "S" qualified electronics
- Radiation hardened to 40 KRAD
- Measurement accuracy to $< \pm 0.3\%$ 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



Model 7201
Flight/Spaceflight Heritage High-Accuracy
Pressure Transducer

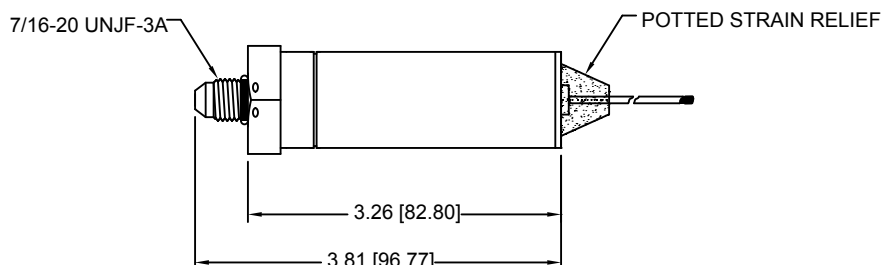
GP:50 MODEL 7201

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

PIN	MODEL 7201
ORG	+15 VDC EXC
GRN	+OUTPUT
WHT	-OUTPUT
BLU	-EXC



REFERENCE SPECIFICATIONS

<p>ELECTRICAL</p> <ul style="list-style-type: none"> • 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: Design meets 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 	<p>MECHANICAL</p> <ul style="list-style-type: none"> • 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)
<p>ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)</p> <ul style="list-style-type: none"> • 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) 	<p>PRESSURE RANGES</p> <ul style="list-style-type: none"> • 0 to 50 thru 0 to 15K PSIA (3.4 thru 1,034 BAR)
<p>MATERIALS OF CONSTRUCTION</p> <ul style="list-style-type: none"> • Wetted Parts: Inconel 718 sensor, Inconel 625 port • Housing: 316L stainless steel 	<p>THERMAL SPECIFICATION</p> <ul style="list-style-type: none"> • 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 • Quality System: ISO 9001:2008

**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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