

FLIGHT HERITAGE DIGITALLY CORRECTED PRESSURE TRANSDUCER



Model 8200 Flight Heritage Digitally Corrected Pressure Transducer

MODEL 8200

FEATURES:

- High accuracy, up to 0.05% available
- 10X overload option
- 0 to 5 Vdc, or 0 to 10 Vdc or 4-20mA output
- 4 wire Isolated output option
- Secondary containment rated at 4,500 PSI (310 BAR) for ranges ≥300 PSI

APPLICATIONS:

- Aviation and suborbital spacecraft
- Unmanned aerial vehicles
- Helicopter and rotorcraft
- Commercial and military satellites
- Launch vehicles
- Ground and engine testing

PRODUCT OVERVIEW:

The Model 8200 series from GP:50 is a flight heritage, high level pressure transducer. Digitally corrected to provide high-accuracy pressure measurements with a proprietary sensor design for added zero stability for commercial aviation, military, aerospace, UAV, satellite, and defense applications.

FIELD OPTIONS:

- 0 to 5 Vdc, 0 to 10 Vdc and 4-20 mA outputs (Isolated output options available)
- Temperature output
- Optional wetted materials available
- O2 cleaning to MIL-STD-1246 available

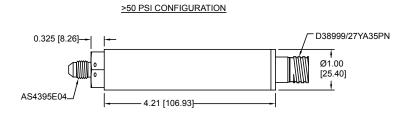


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GP:50 MODEL 8200

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



STANDARD WIRING

PIN	4-20mA	4-WIRE VDC ISOLATED	4-WIRE VDC NON-ISOLATED	3-WIRE VDC
A/1	+EXC/SIG	+EXC	+EXC	+EXC
B/2	N/C	+SIG	+SIG	+SIG
C/3	N/C	-SIG	-SIG*	N/C
D/4	-EXC/SIG	-EXC	-EXC*	-EXC/SIG
E/5	N/C	N/C	N/C	N/C
F/6	N/C	N/C	N/C	N/C

*COMMONS JUMPERED

REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL		
• Supply Voltage: 9 to 36 Vdc (some options may affect this)	• Process connection: AS5202-04 standard. Other available, consult factory.		
 Output Signal: 0 to 5 Vdc, 0 to 10 Vdc, 4-20mA Load Resistance: 	 Proof Pressure: 1.5X FSO (25 PSIA min.) 10X optional Burst Pressure: 3.0X FSO Secondary containment: Rated at 4,500 PSI (310 BAR) for ranges ≥300 PSI 		
 Load Resistance: Voltage Output: 100K Ω min. 			
Current Output: 1150 Ω max. at 32 Vdc			
Circuit Protection: 500 Hz Revers polarity protected	• Random Vibration: >25 G RMS (20 Hz to 2,000 Hz)		
ACCURACY	• Sinusoidal Vibration: 7.5 G's from 5 Hz to 100 Hz		
ACCURACI	• Pyroshock: >3,500 G's / 12 g		
• Static Accuracy: ±0.1% FSO with ±0.05% available	• Shock: 100 G's Peak to peak		
 Non-repeatability: <±0.04 FSO Hysteresis: <±0.05 FSO 	Constant Acceleration: 12 g		
 Thermal Error: ±0.225% FSO/100 °F Total Error Band: ±0.5% FSO 	• Approximate Weight: <5 oz (0.1 kg) some options may affect weight		
MATERIALS OF CONSTRUCTION	THERMAL SPECIFICATION		
• Wetted Parts: Ranges ≤100 PSI: 316L SST; >100 PSI: 17-4	• Compensated: -10 °F to +180 °F (-23 °C to +82 °C)		
PH SST (Inconel, Hastelloy optional)	• Operating Ambient: -20 °F to +190 °F (-29 °C to +88 °C)		
Housing: 316L stainless steel	NIST Traceability/Calibration: ANSI-Z540-1		
PRESSURE RANGES	Workmanship: J-001/NASA 8739.3 standard		
	Quality System: ISO 9001:2008		
• 0 to 3 thru 0 to 15K PSIA, PSIG, PSIV, PSISG options (0.2 thru 1,034 BAR)			

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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