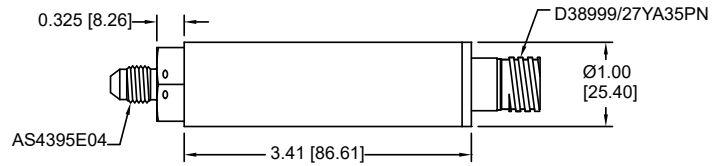


MODEL 7200 FLIGHT HERITAGE PRESSURE TRANSDUCER



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

**REF DIMENSIONS ONLY.
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

PRODUCT OVERVIEW:

The Model 7200 series from GP:50 is a flight heritage static pressure transducer, designed to provide high-accuracy pressure measurements within commercial aviation, military, aerospace, UAV, satellite, and defense applications. This highly rugged and highly reliable Model 7200 is field proven over 25 years and hundreds of applications, including higher shock and vibration environments, and is available in both test and program volumes to suit a variety of requirements.

FEATURES:

- Secondary containment rating up to 4,500 PSI (310 BAR)
- Optional 10X proof pressure
- 0 to 1 PSIG, 0 TO 3 PSIA thru 0 to 15K PSI (69 mBAR to 1,034 BAR)

APPLICATIONS:

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

OPTIONS:

- 0 to 5 Vdc, 0 to 10 Vdc and 4-20 mA outputs
- (Optional 4-wire isolated grounds on Vdc Units)
- "B+ and S Class" electronics
- Temperature output
- Inconel, Hastelloy, and Monel wetted parts
- Wide selection of pressure ports and electrical connections
- Improved Accuracy on Model 8200.
- Various MIL-SPECS available.* Consult factory.

*Some options may invalidate Mil-Specifications.
Please consult factory for your specific needs.

GP:50 MODEL 7200

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	0 to 5 Vdc, 0 to 10 Vdc and 4-20 mA
Excitation Voltage:	9 to 32 Vdc (0-5 Vdc output, 4-20 mA) 14-32 Vdc (0-10 Vdc output)
Load Impedance:	1,350 Ω max. at 36 Vdc
Output Impedance:	Vdc = 100 Ω typ
RLoad max:	$(4-20 \text{ mA}) = ((\text{Power supply Voltage} - 9.0\text{V}) / .020) - \text{Wire Resistance}$. (Options may affect this, consult factory)
Input Current:	4 wire isolated Vdc output - 25 mA nominal, non-isolated Vdc - 5 mA nominal
Response Time:	<5 ms typical*

MATERIALS OF CONSTRUCTION	
Wetted Parts:	≤ 1000 PSI: 316L SST > 1000 PSI: 17-4 PH SST (Inconel, Hastelloy optional)
Housing:	316L Stainless Steel
Internal Fill:	≤ 1000 PSI Fomblin oil (May contain Silicone)

ACCURACY (RSS): Hysteresis, Non-Linearity & Repeatability @ +70 °F	
Static Accuracy (RSS):	≤ ±0.3% FSO
Non-linearity:	≤ ±0.15% FSO (Typ)
Hysteresis:	≤ ±0.1% FSO (Typ)
Repeatability:	≤ ±0.1% FSO (Typ)
Zero Balance:	± 1.0% FSO
Span Balance:	± 1.0% FSO

(BFSL method used. Improved options available.)

Calibration:	NIST Traceable Cert
Workmanship:	IPC-A-610 Soldering
Quality System:	AS9100

Options may affect specifications.
Please consult factory for your specific needs.

*Response Time varies depending on options.

MECHANICAL	
Process Connection:	AS4395E04 standard. Consult factory for other options
Electrical Connection:	D38999/27YA35PN standard, options available
Proof Pressure:	1.5X FSO, 10X optional
Burst Pressure:	3.0X FSO, 15X optional
Secondary Containment:	Rate at: 4,500 PSI for ranges ≥ 50 PSI 2,400 PSI for ranges < 50 PSI
Random Vibration:	> 25 G RMS (20 Hz to 2,000 Hz)
Sinusoidal Vibration:	7.5 G's from 5 Hz to 100 Hz
Pyroshock:	> 2,500 G's / 12 g
Constant Acceleration:	5 G's for 30 minutes
Approximate Weight:	< 8 oz (0.2 kg) some options may affect weight

PRESSURE RANGES	
0-1 PSIG, 0-3 PSIA thru 0-15K PSI options (69 mBAR thru 1,034.2 BAR) (Ranges below 1,000 PSI may require oil-filled sensor, consult factory)	

THERMAL SPECIFICATIONS	
Operating Range:	-40°F to +250 °F (-40 °C to +121 °C)
Compensated Range:	0 °F to +180 °F (-17 °C to +82 °C)
Compensated Ranges from -65 °F to +250 °F (-54 °C to +121 °C) available	
Effect on Zero & Span:	± 1.0% FSO/100 °F (Improved specifications available)

