FLIGHT QUALIFIED DIFFERENTIAL PRESSURE TRANSDUCER

MODEL 7300

Model 7300
Flight Qualified
Differential Pressure Transducer

FEATURES:

- Digital correction provides an optional 0.05% FSO accuracy
- Extremely lightweight, <8 oz (0.2 kg)
- 0 to 5 Vdc, 0 to 10 Vdc, or 4-20mA output
- Line pressure shift <1% FSO/1000 PSI
- 1000 PSI line pressure rating
- Ranges from 0-1 thru 0-500 PSID

APPLICATIONS:

- Aviation and suborbital spacecraft
- Space qualified flight
- Commercial and military satellites
- Launch vehicles
- Test stand applications
- Ground and engine testing

PRODUCT OVERVIEW:

The Model 7300 series from GP:50 is a flight qualified, differential pressure transducer digitally corrected to provide high-accuracy pressure measurement. The compact, proprietary sensor design provides added zero stability required for commercial aviation, military, aerospace, UAV, satellite, and defense applications.

FIELD OPTIONS:

- 0 to 5 Vdc, 0 to 10 Vdc isolated output
- Bi-directional operation
- Fomblin Oil fill for O2 applications

GP:50 MODEL 7300

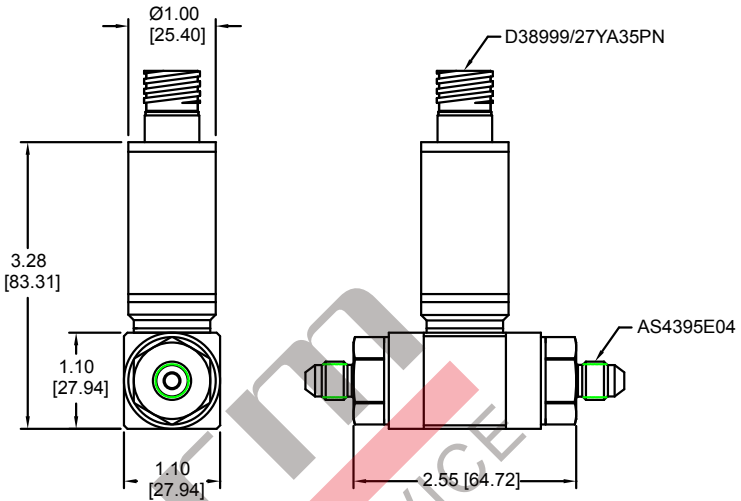
DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

PIN	4-20mA	4-WIRE VDC ISOLATED	4-WIRE VDC NON-ISOLATED	3-WIRE VDC
1/RED	+EXC/SIG	+EXC	+EXC	+EXC
2/GRN	N/C	+SIG	+SIG	+SIG
3/WHT	N/C	-SIG	-SIG*	N/C
4/BLK	-EXC/SIG	-EXC	-EXC*	-EXC/SIG
5/BLU	N/C	N/C	N/C	N/C
6/BRN	N/C	N/C	N/C	N/C

* COMMONS JUMPERED



REFERENCE SPECIFICATIONS

ELECTRICAL

- **Output Signal:** 0 to 5 Vdc, 0 to 10 Vdc digitally corrected
- **Supply Voltage:** 18 to 36 Vdc (unregulated)
- **Response Time:** ~500 Hz
- **Circuit Protection:** Meets MIL-STD-461 EMI/RFI, Reverse polarity
- **Connection:** PTIH-10-6P standard, options available

ACCURACY

- **Static Accuracy:** <±0.10% FSO, +/-0.05% FSO available
- **Zero-repeatability:** <±0.04% FSO
- **Hysteresis:** <±0.05% FSO
- **Zero/Span Balance:** ±0.1% FSO
- **Line Pressure Effect (Zero):** <±1.0% FSO/100 PSI

MATERIALS OF CONSTRUCTION

- **Wetted Parts:** 316L stainless steel
- **Housing:** 300 series stainless steel
- **Internal Fill:** Silicon Oil (Fomblin Oil Available)

Standard configurations shown.
Please consult factory for other options.

MECHANICAL (Other options available)

- **Process connection:** AS5202-04 standard
- **Proof Pressure:** 3X pressure range (Higher available)
- **Burst Pressure:** 5X pressure range
- **Static Line Pressure:** 1000 PSI
- **Random Vibration:** >25 G RMS (20 Hz to 2,000 Hz)
- **Approximate Weight:** 8 oz (0.2 kg)
  (some options may affect weight)

PRESSURE RANGES

- 0 to 1 thru 0 to 500 PSID (0.07 Bar thru 34.5 BAR)
  Bi-directional or uni-directional

THERMAL SPECIFICATION

- **Compensated Range:** 0 °F to +180 °F (- 18°C to + 83°C)
  (other available)
- **Operating Range:** -40 °F to +250 °F (-40 °C to +121 °C)
- **Storage Ambient:** -65 °F to +250 °F (-54 °C to +121 °C)
- **Effect on Zero/Span:**
  Standard: ±0.50% FSO/100 °F
  Improved: ±0.25% FSO/100 °F
- **NIST Traceability**
- **Workmanship:** J-001
- **Quality System:** ISO 9001:2008

Tel:0755-82908211 Web:www.sensorstech.com