

Hybrid Rocket Engine

Pressure Transducer Specifications

OMEGA PX303 Pressure Transducer - Discontinued

SPECIFICATIONS

5V Output (10V Output)

Excitation: 9 to 30 Vdc (14 to 30 Vdc) unregulated

Output: 0.5-5.5 (1-11) Vdc

Accuracy: 0.25% FS (linearity, hysteresis, repeatability)

Zero Balance: $\pm 2\%$ FS

Span Tolerance: $\pm 1\%$ FS

Long Term Stability: $\pm 0.5\%$ FS

Typical Life: 100 million cycles

Operating Temperature: 0 to 160°F (-18 to 71°C)

Compensated Temperature: 30 to 130 °F (-1 to 54°C)

Total Thermal Effects: 1% FS max

Proof Pressure: 200%, 13,000 PSI max

Quiescent Exc.: 15 mA maximum

Min Load Resistance: 2000 Ω

Response Time: 1 msec

Gage Type: Stainless steel diaphragm, silicone oil filled semiconductor sensor

Shock: 50 g @ 11msec

Vibration: 15 g 10-2000 Hz

Wetted Parts: 17-4 PH and 300 Series Stainless Steel

Pressure Port: 1/4 NPT male

Press. Cavity: 0.075 cubic inches

Electrical Conn. PX303: 3 cond, 22 AWG, PVC unshielded, 3 ft (1 m) cable

Electrical Conn. PX313: Subminiature DIN Connector, Mating Connector Included

Weight: 7.8 oz (221 g) to 1000 psi; 9.9 oz (281 g) from 1000 psi