

ADVANCED -
PERFORMANCE
MIL-AERO
CONNECTORS



Reduced form-factor
EMI / RFI filter pressure
transducers



Glenair is the worldwide leader in the design and manufacture of ceramic planar-array filter connectors for the aerospace industry. Glenair pressure sensor transducers integrate our comprehensive in-house filter connector capability with thin film sensor technology for use in fuel systems, hydraulic systems, engine monitors, environmental systems, and other inline applications where accurate and reliable measurement of fluid pressure is a mission-critical requirement.

As a manufacturer of a broad range of military aerospace connectors—from our SuperNine® MIL-DTL-38999 type series to our ultraminiature Mighty Mouse series—Glenair is uniquely positioned to supply both standard and lighter-weight, reduced form-factor connectorized transducers for the military and aerospace industries. Our complete in-house capability in connectors as well as thin film transducer technology enables Glenair to offer exceptionally fast turnaround on both made-to-order as well as standard catalog pressure transducers.

Glenair also offers transducers for the oil field industry including specialized devices for use in seismic exploration, wellhead pressure sensing and mud pulse telemetry. These intrinsically safe geophysical industry pressure sensors may be specified with a broad range of filtered interconnect types from MIL-DTL-5015, MIL-DTL-26482 and so on.

- Sealed, welded construction thin film packaging
- Stainless steel diaphragm suitable for all applications
- Extended operating temperature up to 150°C
- High reliability and accuracy $\pm 1\%$ F.S.
- Integral filter elements for EMI protection
- Ultra small form-factor—up to 20% shorter overall length compared to standard solutions
- Qualification per DO-160 pending

MINIATURIZED EMI/RFI Filter Pressure Transducers



For size and weight reduction
aerospace applications

QUALIFICATION TESTING



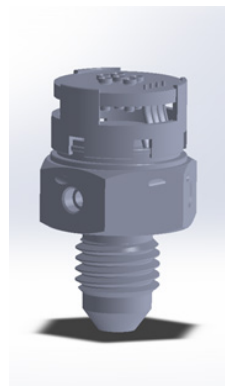
Glenair pressure transducers have been independently tested and certified per Glenair Qualification Test Plan QTP #367. Testing documentation available upon request.

Test	Per Standard	Result
Workmanship		PASS
Temperature and Altitude	DO-160G, Section 4, Category E2, High Temp = 150 deg C	PASS
Temperature Variation	DO-160G, Section 5, Category A	PASS
Operation Shocks and Crash Safety	DO-160G, Section 7, Category E, Aircraft Type 5, Test Type F	PASS
Vibration	DO-160G, Section 8, Category R, Fixed Wing, Zone 5, Curves E & E1	PASS
Humidity	DO-160G, Section 6, Category B	PASS
Baseline Functionality Testing	Conducted before and after every major test.	PASS

IN-HOUSE TRANSDUCER DESIGN AND DEVELOPMENT



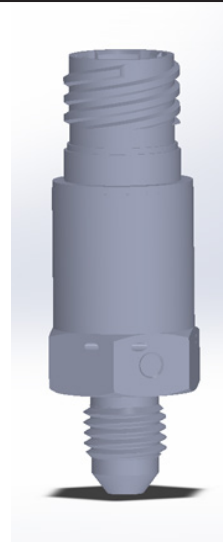
Step 1 Precision-machining of pressure port and stainless steel diaphragm



Step 2 Integration of thin film electronics package



Step 3 Incorporation of housing and electrical EMI/RFI filter connector



Step 4 Laser welding of transducer unit for high-temperature sealed applications

Dramatic size and weight reduction in pressure transducers. From left to right:

1. Typical inline transducer for general-duty industrial applications
2. Legacy MIL-DTL-38999 form factor transducer
3. Innovative reduced form-factor transducer with Glenair EMI/RFI SuperNine® filter connector
4. Series 80 Mighty Mouse locking push-pull transducer with additional size/weight reduction.

