Where Innovation and Technology Take Flight
Advanced Technology For Advanced Performance

Kulite Aircraft Transducers Features

- Solid State Silicon Technology - No Moving Parts
- Operational Modes: Gage, Sealed Gage, Absolute & Differential
- Isolated Sensor Eliminates Any Risk of Contamination
- Mature Technology Over 50 Years Experience
- Custom Designed For The Application With A Unique Part Number
- Pressure Ranges From 1 psig Up To 20,000 psig
- Low Level Output Model Series APT-1000
  Has 16VDC Input and 100mV FS Output
- High Level Output Model Series APTE-1000
  Has 24VDC Input and Voltage Output Or Current Draw Signal
- Live Zones Available For All Aircraft Transducer Models
- EMI Protection and Secondary Containment
- Multiple Choice of Inlet Ports and Connectors
- TSO C47 & C45 FAA Certified Hardware

Commercial - General Aviation - Military - Commuter/RJ - Rotorcraft
**AUXILIARY POWER UNIT (APU)**
- Bleed Air Pressure
- Air Inlet Pressure
- Main Oil Pressure
- P3 Air Pressure
- P1 Total Air Pressure
- Exhaust Air Pressure
- Fuel Filter Delta P Pressure

**HYDRAULIC PRESSURE TRANSDUCERS**
**HIGH PRESSURE SEALED GAGE & ABSOLUTE**
- Actuator Pressure
- Accumulator Pressure
- Brake Pressure (FDR)
- Brake Pressure Anti-Skid
- Flap Pressure
- Flt Controls Pressure Monitoring
- Hydraulic Filters Delta P
- Hydraulic Pressure Switch
- Hydraulic Pump Pressure
- Hydraulic Reservoir
- Rudder Actuation
- Spoiler Actuation
- Landing Gear Pressure
- Oleo Pressure & Temperature

**PROPULSION / ENGINE**
- Differential Oil Pressure
- Engine Oil, Absolute Pressure
- Engine Oil, Gage Pressure
- Engine Torque Pressure, Gage
- Fuel Pump Pressure
- Oil Filter Differential Pressure
- Oil Temperature & Pressure
- P1 Total Air Pressure, Absolute
- P2 Compressor Inlet, Pressure
- P2.5 Inlet Pressure, Absolute
- P3 Bleed Air Pressure
- P3 Compressor Discharge Pressure
- Transmission Oil Pressure
- Redundant Oil Pressure Delta P
- Redundant Fuel Filter Delta P
- Starter Air Valve Redundant Pressure

**ENVIRONMENTAL CONTROL SYSTEM (ECS)**
- Air-Conditioning Compressor Discharge Pressure
- Air-Conditioning Inlet Pressure Gage & Absolute
- Air Duct Differential Pressure
- Air Filter Differential Pressure
- Cabin Air Pressure Gage & Absolute
- De-Ice Hot Air Pressure Switch
- De-Ice System Gage Pressure
- Oxygen Quantity Pressure Measurement
- Oxygen Regulator Pressure
- Oxygen, Crew Cabin Pressure
- Pneumatic Gage & Absolute Pressure
- Potable Water Gage Pressure
- Potable Water Level Measurement
- Vapor Cooling System Pressure

**COMBINATION / DUPLEX**
- Oil Pressure & Temperature (RTD)
- Oil & Fuel Gage Pressure
- Oil Pressure & Redundant Pressure
- Oil Filter Delta P With Redundant Temperature
- Redundant Absolute Oil Pressure
- Redundant P3 Air Pressure
- Combined Absolute With High Pressure Switch
- Oxygen Pressure & Temperature

**MISCELLANEOUS PRESSURE TRANSDUCER APPLICATIONS**
- Tension-Compression Load Cells For Flight Controls
- 3 Wire Electronic Pressure Switches
- Quadrupie Duplex Pressure Measurements
- TPS Tire Pressure System Transducers
- P3 Air Flow Differential Pressure
- Oxygen Quantity Measurement
- Nitrogen Quantity Measurement
- Delta P Low Pressure Filler Pressure
- Pitot-Stagnic Air Pressure
- Barometric For UAV

**ELECTRONIC (3W) PRESSURE SWITCHES**
- Low Oil Pressure Delta P Switch
- De-Ice Hot Air Pressure Switch
- Fuel Pressure Switch
- Hydraulic Pressure Switch
- Bleed Air Pressure Switch
- Thrust Reverser Pressure Switch

---

**Kulite Aircraft Pressure Transducers**

Product reliability in the most severe aircraft environment

Kulite Semiconductor Products, Inc. is recognized worldwide as The Leader in Pressure Transducers, Sensors and Transmitters supporting almost every major aircraft program. The unique piezoresistive sensor coupled with the lightweight package concept is the ideal product of choice for the aircraft engineer looking to reduce weight, increase reliability and fulfill the need for higher accuracy while meeting cost objectives.

Kulite silicon sensor advantages in aircraft applications:
- High frequency response
- Excellent long term stability
- Media compatibility
- Negligible non-linearity and hysteresis
- Custom accuracy < 0.1%
- Ruggedized to application
- Excellent repeatability
- High temperature capability +800°F (427°C)
- Digital and/or analog output

Kulite transducer technology has demonstrated for over 50 years that it is a superior product necessary to meet the stringent requirements for aircraft pressure measurement applications.
Flexible - Responsive - Reliable
Special Products

Kulite engineering is quick to respond to “Special Needs” of adapting silicon technology and custom electronics packaging to meet increasing needs for higher reliability and better performance. The following are only a few examples that illustrate the versatility of the Kulite Product for Pressure - Load or Mass measurements in an aircraft environment. Our custom engineered product has led to Kulite’s position as the Industry Leader.

- Oxygen / Nitrogen Quantity Measurement
- Variable Reluctance Replacement
- Electronic 3 Wire Pressure Switch
- Potentiometric Replacement
- Wireless
- Tension / Compression Load Cell For Flight Control FDR Monitoring
- Synchro Replacement
- LVDT Pressure Replacement
- Digital, Cordless LED Pressure Monitoring For Diagnostic System Readiness

Please consult your nearest Kulite Sales Office for your particular application. Data sheets for all products shown are available at our web site: www.kulite.com

Kulite holds 3rd party approval for AS9100 and ISO9001 as well as SIRCA and CSA certifications. Kulite is an approved FAA/EASA/CAAC repair station. Please visit our web site for details.

KULITE SEMICONDUCTOR PRODUCTS, INC.
One Willow Tree Road • Leonia, New Jersey 07605 USA • Tel: 201 461-0900 • Fax: 201 461-0990 • Email: info-kulite@kulite.com • http://www.kulite.com

Continuous development and refinement of our products may result in specification changes without notice.

Photography Courtesy Bell Helicopter, Front Cover Courtesy Cessna