



AIRCRAFT PRESSURE TRANSDUCERS

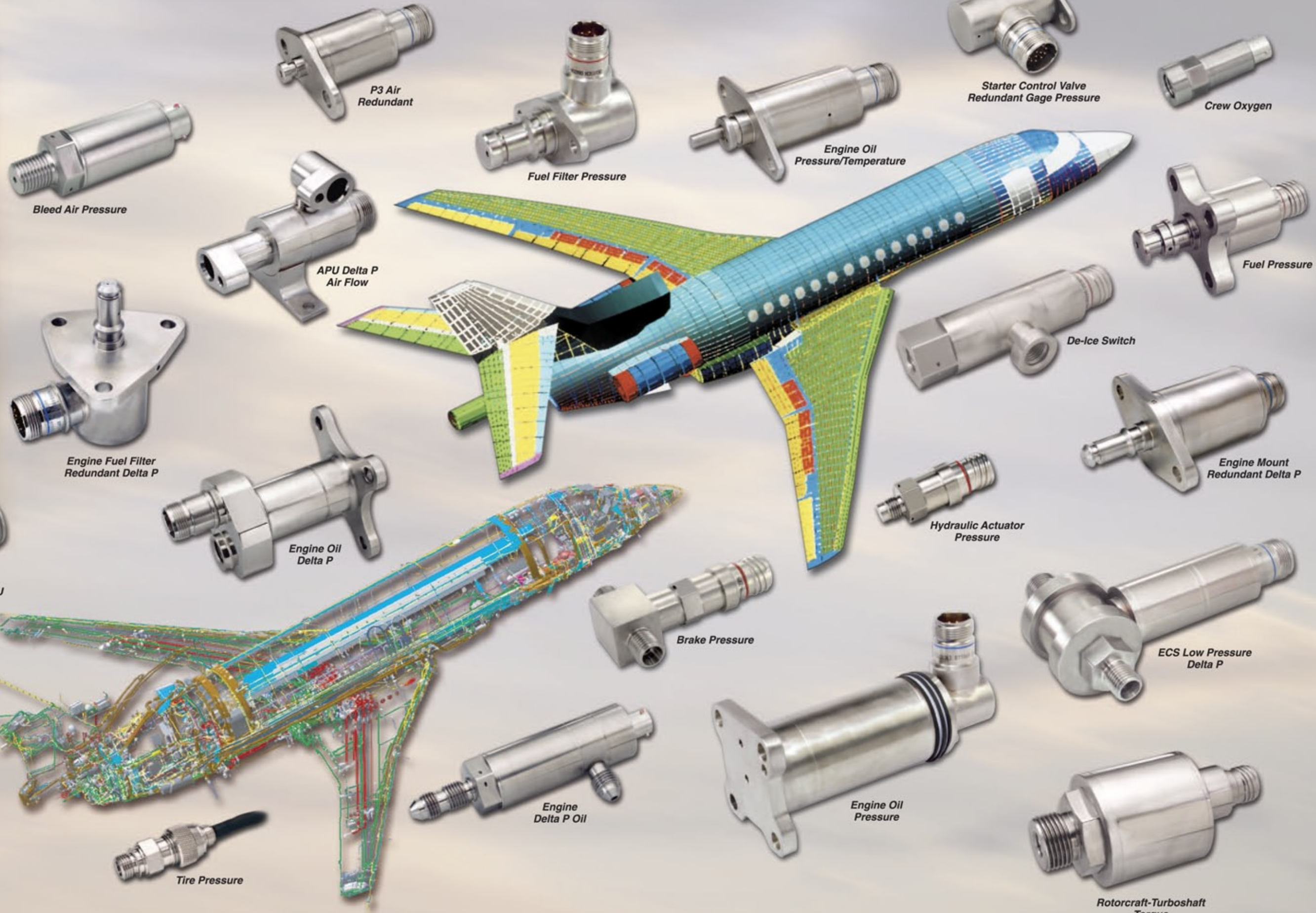


WHERE INNOVATION AND TECHNOLOGY TAKE FLIGHT

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 psi Up To 20,000 psi
- Low Level Output Model Series APT-1000 Has 10VDC Input and 100mV FS Output
- High Level Output Model Series APTE-1000 Has 28VDC Input and Voltage Output Or Current Draw Signal
- Live Zeros 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

Kulite Transducer Applications

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
Flight 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 Filter Pressure
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
Quadruple Duplex Pressure Measurements
TPS Tire Pressure System Transducers
P3 Air Flow Differential Pressure
Oxygen Quantity Measurement
Nitrogen Quantity Measurement
Delta P Low Pressure Filter Pressure
Pitot-Static 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.

Aircraft Pressure Transducers Military Applications

Main Fuel Throttle
Dual Pressure



Lift Fan
Pressure
Pressure/Temperature
Temperature



Fuel Filter
Delta Pressure



Hydraulic System
Filter Pressure
Bootstrap Pressure



Turbo Machine
Triple Pressure
Single Pressure



Bomb Release
Pressure/Temperature



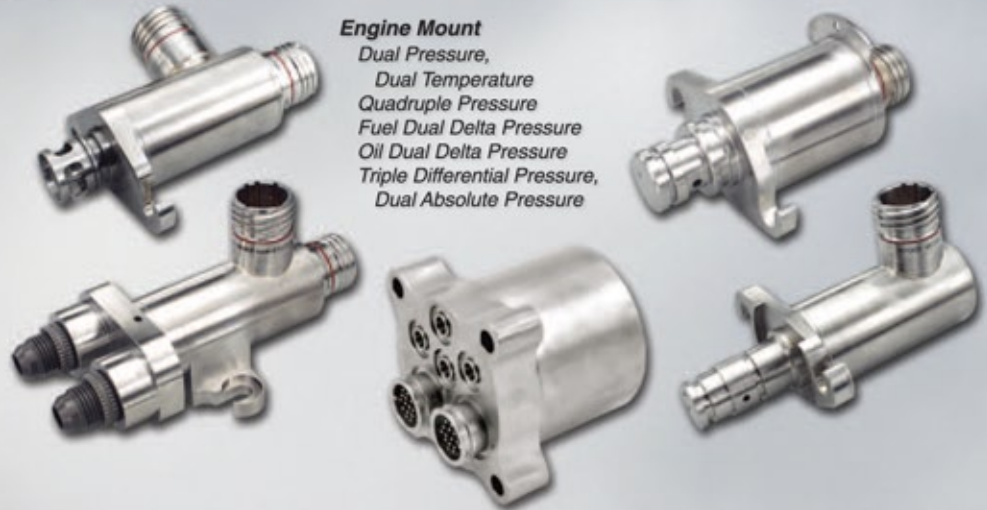
Electrohydrostatic Actuators
Pressure
Pressure/Temperature



Lift Fan Servo Control Module
Triple Pressure



Engine Mount
Dual Pressure,
Dual Temperature
Quadruple Pressure
Fuel Dual Delta Pressure
Oil Dual Delta Pressure
Triple Differential Pressure,
Dual Absolute Pressure



Small - Lightweight - Reliable

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



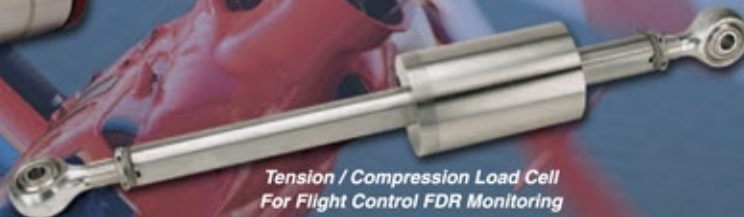
Electronic 3 Wire
Pressure Switch



Wireless



Potentiometric
Replacement



Tension / Compression Load Cell
For Flight Control FDR Monitoring



Digital, Cordless LED
Pressure Monitoring For
Diagnostic System Readiness



Synchro
Replacement



LVDT Pressure
Replacement



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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 SIRA and CSA certifications. Kulite is an approved FAA/EASA/CAAC repair station. Please visit our web site for details.

