

Kulite Gas Turbine Transducer Applications

PROPULSION / ENGINE

Engine Oil, Absolute Pressure
Engine Oil, Gauge Pressure
Oil Filter Delta Pressure
Fuel Pump Pressure
Fuel Filter Delta Pressure
P1 Total Air Absolute Pressure
P2 Compressor Inlet Air Pressure
P2.5 Intermediate Air Pressure
P3 Compressor Discharge Air
P5 Engine Exhaust Air Pressure
P125 Fan Air Pressure
Compressor Air Bleed Plenum
Turbine Cooling Air Pressure
Transmission Oil Pressure - Turboshaft
Engine Torque Pressure - Turboshaft
Redundant Oil Pressure
Redundant Fuel Pressure
Redundant Fuel Filter Delta Pressure
Redundant Pressure and Temperature
Starter Air Valve Redundant Pressure
Exhaust Air Pressure

AUXILIARY POWER UNITS (APU)

Main Oil Pressure
P1 Total Air Pressure
P3 Compressor Discharge Pressure
Filter Differential Pressure
Exhaust Air Pressure

POWER GENERATION TURBINES

Air and Fuel Pressures
Compressor Discharge Pressure
Turbine Differential Pressure
Triplex Redundant Transducers
Combination Absolute and Differential
Combustion Instability Transducer
CSA and SIRA Certifiable

TURBINE TEST / DEVELOPMENT

Small Size, High Frequency Transducers
Acoustics/Noise Sensors
Airfoil Flutter/Vibration Measurements
Surface Mount Sensors (Flat Packs)
Ultra-High Temperature Pressure Sensors
Combustion Instability Measurement
Augmentor Screech and Rumble Sensors
DC and AC Dual Output Transducers
G-Insensitive Pressure Transducers
Ultra High G-Load Applications
High Accuracy Amplified or Unamplified
Digitally Compensated Transducers
Active Engine Control Transducers
Semi-Infinite-Tube Transducers (SIT)
Pitot-Static Pressure Probes
Wireless Output Pressure Sensors

COMBINATION / MULTI-FUNCTION / REDUNDANT

Multiple Absolute and Delta Pressures
Pressure and Temperature (RTD)
Pressure and Pressure Switch Combo
Multiple Redundant Combos

TECHNOLOGY / RESEARCH

Small Size Sensors (1.5mm Diameter)
High Frequency Response
Airfoil Surface Pressures (Flat Packs)
Pitot-Static Pressure Probes
Ultra High Temperature (Cooled and Uncooled)
Flow Angle Probes
Semi-Infinite Tube Transducers (SIT)
Active Flow Control Applications
Ultra High g-Load Applications
CSA and SIRA Certifiable

Kulite Turbine Pressure Transducers **Product reliability in the most severe environment**

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

Kulite silicon sensor advantages:

- 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 +1025°F (550°C)
- Digital and/or analog output
- Static/Dynamic outputs

Kulite transducer technology has demonstrated for over 50 years that it is a superior product necessary to meet the stringent requirements for aerospace and ground pressure measurement applications.