



## ENGINE SYSTEMS SENSORS

# CLEAN, RELIABLE AND COST EFFECTIVE

## High performance engine sensor solutions

Our engine systems sensors provide critical measurements of temperature, speed and pressure for flight and engine control systems. Found on virtually every type of aircraft engine, Collins Aerospace innovative technologies deliver clean, efficient, reliable and cost-effective engine sensor solutions for operation under the toughest flight conditions.

Our breadth of products span the entire engine from intake to exhaust, and are designed to meet the rigorous and demanding temperature requirements for high performance aircraft propulsion systems. From product design to testing and certification, we have the experience, skills and resources to meet the demands of your engine systems sensor needs.



## KEY FEATURES AND BENEFITS

- Engineering and project management
- Joint specification development
- Customer focus from product inception to aftermarket support
- Research, design and development
- Complete analysis, testing and qualification
- Full DO-160 qualification facilities
- Committed to continuous improvement and lean manufacturing



**FADEC PRESSURE TRANSDUCERS (DPX)**

- Strain gauge and capacitive
- MEMS technology
- $\pm 0.05\%$  FS accuracy
- 5VDC signal conditioning circuitry
- Custom solutions



**TOTAL AIR TEMPERATURE SENSORS (T2, T25)**

- Certified for ice crystal operation
- Heated (electrical, bleed air)
- Passive unheated
- Various heater powers (e.g., 28VDC, 115VAC)
- Accuracies of  $\pm 2^\circ\text{C}$  ( $3.6^\circ\text{F}$ )



**THERMOCOUPLE ENGINE TEMPERATURE (TGT, EGT)**

- Variety of TC Types (K, N, S)
- Temp capability to  $1200^\circ\text{C}$
- Harnesses  $750^\circ\text{C}$



**AIRCRAFT PLATINUM RTD TEMPERATURE (PRT)**

- Rugged construction for high reliability
- Resolution of  $0.001^\circ\text{C}$
- $-260^\circ\text{C}$  to  $800^\circ\text{C}$



**HIGH TEMPERATURE PRESSURE SENSING (ABS, DIFF, GAUGE)**

- Core mounted  $175^\circ\text{C}$  ( $347^\circ\text{F}$ )
- Absolute, differential, or gauge
- Gaseous or liquid media
- EMI/noise filtering



**SPEED AND TORQUE SENSORS (N1, N2, NFAN)**

- Shaft, blade and gear measurement
- Variable reluctance technology
- Electronic signal conditioning
- Temperatures up to  $500(\text{d})\text{C}$

Specifications subject to change without notice.