

Providing safety-critical measurements

Advanced air data for modern aircraft



SmartProbe® Air Data Systems



Increased mission capability

Industry-leading sensors to measure critical data

For more than 60 years, Collins Aerospace has been a leader in the advancement of innovative and high-performing air data and sensor systems for nearly every type of aircraft across the globe.

Collins' SmartProbe® air data systems (ADS) combine industry-leading multi-function probes, air data computers and advanced aerodynamics to create unmatched high-performance air data measurement.

Air data is a fundamental core aircraft system that provides safety-critical measurements for vehicle control. Information such as airspeed, altitude, Mach and angle-of-attack are essential for an aircraft to fly and critical to keep it safe.

Our SmartProbe ADS provides an advanced level of performance and value. With revolutionary materials, sensing, aerodynamic analysis and systems integration, Collins SmartProbe reduces overall aircraft cost and risk, while increasing operational system reliability and mission capability.

Other benefits include:

- Our comprehensive engineering services support installation, systems integration, environmental verification, icing certification and safety analysis.
- Aerodynamically calibrated data provides direct use to all consuming systems, harmonizing critical data across the entire aircraft.
- Unmatched aerodynamic analysis and wind tunnel capability allow for development, verification and validation, reducing expensive flight testing.
- Worldwide aftermarket support includes our extensive maintenance, repair and overhaul (MRO) network, and 24-7 aircraft-on-ground (AOG) customer service.

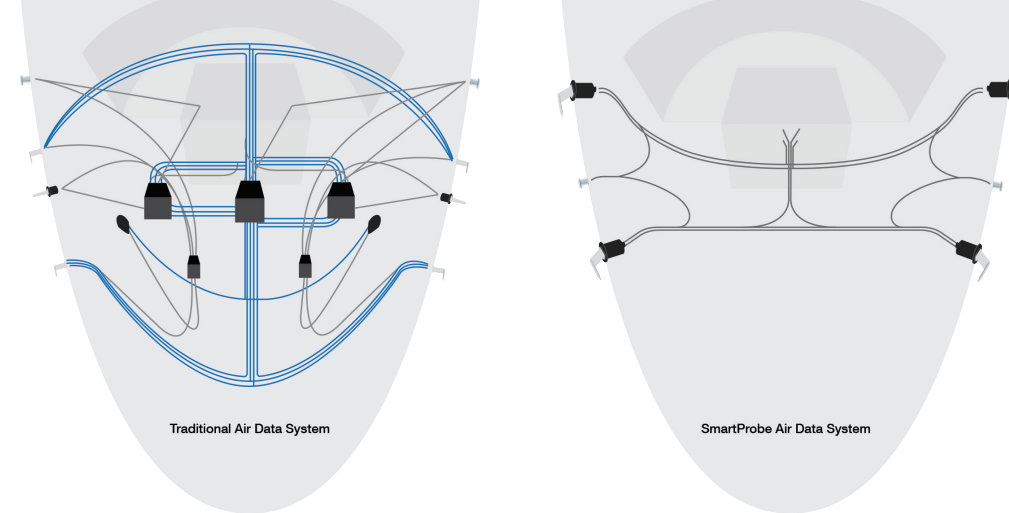


Turnkey OEM Solutions and tailored support

Collins SmartProbe is a proven and certified air data solution known by regulatory authorities as a mature safety-critical system with a globally recognized pedigree. Implementation provides benefits across the entire lifecycle.

Original equipment manufacturers (OEMs) benefit from implementing SmartProbe on new development, because it reduces risk, cost, schedule and certification timing. Comprehensive aerodynamic analysis and integration are performed early, eliminating late design changes that can be costly and difficult to implement.

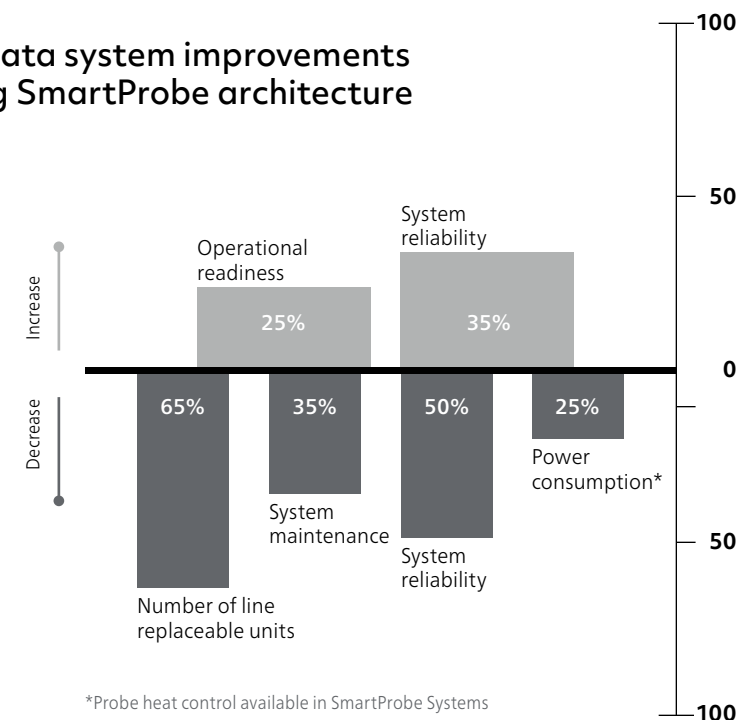
Operators benefit through our global network of customer support and service centers that enable the fleet to stay flying and mission-ready. Simplified logistics and maintenance result in reduced operation costs.



Simplified architecture, optimized implementation

A SmartProbe Air Data System simplifies the aircraft by reducing the number of components, eliminating pneumatic tubing and simplifying wire harnesses. Benefits of this simplified system extend to provide tangible overall aircraft improvement.

Air data system improvements using SmartProbe architecture








SmartProbe (ADS) Family implementation

- SAE/ARP4754A DAL A
- Qualified RTCA/DO-160
- RTCA/DO-178 level A
- Certified icing: Appendix C, D, O
- RVSM certified
- 28 VDC electronics power
- 28 VDC or 115 VAC probe heater power
- Interface: ARINC-429
- LRU weight: 5 lbs.
- Commercial export classification

Learn more at
collinsaerospace.com

Collins Aerospace
+1.952.892.4000
sis@collins.com
collinsaerospace.com

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