UTC Aerospace Systems has over 50 years of experience in aerospace engineering and innovation. UTC Aerospace Systems’ advanced stall warning and angle of attack (AOA) technology has demonstrated success around the world on major regional and business aircraft. This same field-proven technology and relentless customer focus is applied to our stall protection systems.

**Stall Warning Angle of Attack Transducers (SWAAT) and Stall Protection Angle of Attack Transducers (SPAAT) Sensors**

**Low Risk, High Reliability**

Through its advanced, robust design, our stall warning / AOA system provides optimal performance during all phases of flight. Proprietary heater technology enhances vane de-icing and helps evaporate moisture in the unit. These self-regulating vane and case heaters have an established high reliability to ensure optimum aircraft performance when in icing conditions.

UTC Aerospace Systems has over 50 years of experience in aerospace engineering and innovation.

**Model 0863D1**

- Mounting Plate: 4.7 in. dia. (11.9 cm)
- Case: 4.6 in. deep (11.7 cm)

Where ingenuity takes off™
Stall Warning Angle of Attack Transducers (SWAAT) and Stall Protection Angle of Attack Transducers (SPAAT) Sensors

General Specifications

Dimensions
- Mounting Plate: 4.7 in. diameter max. (11.9 cm)
- Case: 3.6 in. diameter max. (9.1 cm), 4.6 in. depth max. (11.7 cm)

Weight: 2.6 lbs. max. (1.2 kg)

Environmental: Meets or exceeds requirements of RTCA / DO-160

Power: Computer, Vane and Case Heaters — 28 VDC

Features & Benefits
- Single or dual channel architecture
- Stall warning output—stick shaker and/or aural warning
- Stall protection output—stick pusher command
- Normalized AOA output—low speed awareness
- Approach indexer output—approach and landing aid
- Pilot-activated test (PAT)—pre-flight test
- ARINC 429 communication
- Combines AOA and stall warning / protection computer functions

Certifications
- Complies with Part 23 and Part 25 aircraft requirements
- FAA authorized TSO-C54
- Aerodynamic vane alignment and resolver-based sensing provide reliable and accurate performance
- Self-regulating vane and case heaters with MTBF of greater than 1,000,000 hours (established via field data)
- Strapping function to correct for potential installation alignment errors
- Improves aircraft performance and reliability
- Extensive certification experience on major avionics platforms
- Reduces Line Replacement Unit (LRU) count
- Easy installation and maintenance

This document does not contain any export controlled technical data.

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