

SPECIFICATIONS

# Speed Control System

Lift Transducer  
and Lift Computer



***SAFE FLIGHT***  
INSTRUMENT CORPORATION

## Takeoff To Touchdown

For over 65 years, Safe Flight Instrument Corporation has helped pilots achieve optimum speed control and angle-of-attack performance.

### Lift Transducer

The Safe Flight Speed Control System consists of a wing-mounted Lift Transducer and a Lift Computer. The Lift Transducer installs in the lower leading edge of the aircraft wing. The Transducer vane protrudes into the airstream and is positioned during flight by local airflow velocity and direction.

### Angle-of-Attack

By correlating lift with airflow characteristics at the stagnation point on the wing, the Lift Transducer measures precise changes in Angle-of-Attack (AoA), represented as an airspeed deviation from a reference AoA.

### Lift Computer

The output signal, combining AoA and local dynamic pressure, is processed by the computer and displays visually on a PFD or a stand-alone Indicator. The display shows FAST and SLOW limits referenced to the AoA-based reference speed. Low Airspeed Awareness (LAA) symbology can be integrated into the display. The measurement accuracy of the system (expressed in knots deviation from the reference speed) is usually within one knot.

## Features

- Stall Warning
- AoA Output
- Low Airspeed Awareness (LAA)
- Fast/Slow Indexer
- Optimized Aircraft Performance
- Short Field
- Climb Angle
- ARINC 429 and Analog Output
- Flight Into Known Icing Qualified
- Flap compensation

## Operational Benefits

- Combined speed control and stall warning
- Instantaneous stall trend information
- Best short field approach speed/attitude
- Increase safety by providing trend and AoA info during take-off, landing and maneuvering
- Increase awareness of wing loading during maneuvers
- Can be used as a backup to the airspeed indicator
- Light weight system - < 2 lbs.



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