AFLS Advanced FlightLog System

Key Facts

- Prandtl type pitot/static probe
- Angle of Attack and Angle of Slip compensation with cardan joint
- Two Hall effect sensors for AOA and AOS measurement

The AFLS provides an accurate air data source and avoids calibration on the aircraft itself. The pitot and static measurement is realized with a Prandtl probe. The probe is mounted on a cardan joint to compensate the AOA and AOS. The cardan joint is equipted with two Hall effect sensors in order to measure the AOA and AOS. Attaching the AFLS on an aircraft is accomplished through a 40 mm carbon tube. The AFLS is tested up to a TAS of 380 kt.

Interface

- High precision hall effect sensors for AOA and AOS measurement
- Adjustable friction break against fluttering
- HD-Sub 15 connector to MADC
- Two pressure tubes with Ø ⅛"
- Mechanical interface to nose boom: Ø 36 mm
- AOA AOS: Range ± 25° Accuracy ± 0.1°

Mechanical Information

- 460 x Ø 160 mm
- Weight 330 g

Electrical Supply

- Connection to MADC

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