

The Thales logo is displayed in a bold, blue, sans-serif font. The letter 'A' is stylized with a small blue dot above it. The background of the top half of the page features a blue sky with white clouds and three Airbus aircraft (A320, A340, and A330-200) flying. Three circular sensor icons are overlaid on the aircraft, with lines pointing to specific parts of the fuselage. On the right side, there is a detailed image of a pitot probe assembly, showing a circular base with a central probe and a larger, curved component below it.

Airbus Sensors and Probes

UNRIVALLED EXPERIENCE

For more than 50 years, Thales has been the only aircraft equipment company in the world to span all customer air data requirements, from probes and sensors to indicators, including test equipment.

Thales has built its unrivalled expertise by producing probes and sensors for just about all aerospace applications, including jetliners, regional and business aircraft, helicopters, fighters, military transports, missiles.

Our product range includes pitot tubes, pitot-static and static probes, angle-of-attack sensors, total and static air temperature and multi-function probes.

To consolidate our air data capabilities, we have set up a business unit dedicated to airborne instruments and associated equipment.

Thales develops a stream of new products to support all aircraft manufacturers, in particular the commercial transport market. For instance, Thales has been working with Airbus since the consortium was first created.

Our Pitot probes and angle-of-attack sensors bring high reliability and operational flexibility to all Airbus single-aisle, wide-body and long-range jetliners.

AIRBUS SENSORS AND PROBES UNRIVALLED EXPERIENCE

PITOT PROBES



Thales developed a brand-new range of Pitot probes for all Airbus aircraft families, featuring an innovative design with enhanced performance, especially in adverse weather conditions such as heavy rain, large droplets or frost/severe icing.

An efficient electrical heating system and aerodynamic shape limit the risk of icing.

At the same time, a new water trap and drainage system prevents water from accumulating in the Pitot tube. These design features ensure highly reliable airspeed data and a stability of airspeed information. Long operating experience on Airbus jetliners provides further proof of these products efficiency. By taking advantage of this outstanding reliability and performance, along with Pitot probe commonality across the A320 and A330/A340 families, aircraft manufacturers and airlines alike enjoy considerable operational, technical and economic benefits.

ANGLE-OF-ATTACK SENSORS



Thales unrivalled range of air data products also includes highly accurate angle-of-attack sensors – a critical component for flight safety and efficiency. These AOA sensors have been used on Airbus single-aisle and long-range aircraft from the beginning of each program.

Thales has developed a new angle-of-attack sensor to meet increasingly demanding market requirements.

Designed around a new vane, this sensor also avoids the risk of heating element degradation caused by extreme environmental conditions and brings reliability to a whole new level.

Thales improves flexibility by developing an innovative vane replacement procedure, which allows airlines to carry out this procedure themselves, without requiring recalibration in a wind tunnel. This streamlined procedure is based on the use of market vanes and appropriate tools. Airlines can now enjoy the full benefits of these AOA sensors, including top reliability and maintainability, as well as product commonality across the A320 and A330/A340 families.

TECHNICAL DATA

P/N C16195BA

APPLICATIONS • Airbus single-aisle and long-range families

POWER SUPPLY • 115 VAC/400 Hz

ELECTRICAL CHARACTERISTICS FULLY COMPATIBLE WITH AIRCRAFT SYSTEMS

INTERCHANGEABLE AND MIXABLE WITH PREVIOUS P/N C16195AA

WEIGHT • 500 g. (max.)

P/N C16254AA

APPLICATIONS • Airbus A300/A310

POWER SUPPLY • 28 VDC

ELECTRICAL CHARACTERISTICS FULLY COMPATIBLE WITH AIRCRAFT SYSTEMS

WEIGHT • 500 g. (max.)

TECHNICAL DATA

P/N C16291AA

APPLICATIONS • Airbus single-aisle and long-range families

INTERCHANGEABLE AND MIXABLE WITH PREVIOUS P/N 45150320

OPERATIONAL BENEFITS

ANGLE • +/- 60°

ACCURACY WITHIN 0.25° (GLOBAL QUADRATIC ERROR)

SELF-REGULATING • 115 V/400 Hz

POWER CONSUMPTION • 320 W (max.)

FULLY COMPATIBLE WITH EXISTING AIRCRAFT SYSTEMS

WEIGHT • 1,5 kg (max.)

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