



100900 heated, 4-vane air data boom with total air temperature (TAT) sensor

News Release

100900 HEATED, 4-VANE AIR DATA BOOM WITH TOTAL AIR TEMPERATURE (TAT) SENSOR

Offers Improved Air Flow Direction Accuracy and Reliability

PALMDALE, CALIFORNIA USA -- Adding to its line of air data products, SpaceAge Control, Inc. is now shipping the 100900 heated, 4-vane air data boom that offers supersonic data collection of angle of attack, angle of sideslip, static pressure, total (pitot) pressure, and total air temperature. The unique independent 4-vane design provides redundancy as well as eliminates the air flow blocking ("blanking") effects of the boom body.

Applications include a broad range of air vehicles including military fighter, attack, and cargo aircraft; commercial aircraft; trainers; drones/RPVs/UAVs; and helicopters. Predecessors of the product are now being used in fighter and attack aircraft applications.

Based on a heated probe wind-tunnel tested to Mach 1.3, the 100900 air data boom is constructed from machined aluminum, stainless steel, and copper alloys. The heated probe is 28-volt DC powered (145 watts) and meets the requirements of MIL-T-5420B and SAE AS 393. The heated probe provides a heated, internal water trap and drain.

The angle of attack and angle of sideslip vanes use 4 independent precision, long-life (100+ million shaft revolutions), conductive plastic potentiometers rated to MIL-PRF-39023. Synchro-based dependent vanes are optionally available. The total air temperature sensor is available heated or unheated and is designed per MIL-P-27723E. The entire product is rated for use at operating temperatures from -65° to +125° C.

The 100900 air data boom weighs less than 11 lbs. (5 kg) and is less than 57 inches (1.45 m) in length. It can be mounted on the aircraft nose, wingtip, or tail.

Priced at less than \$50,000, the 100900 gives users a high value compared to alternatives. Shipment leadtime is typically 90 days or less allowing for fast turnaround and low spares inventory requirements.

SpaceAge Control has produced off-the-shelf and customer-engineered air data products for over 30 years. Its quality system is compliant with ISO 9001. The company may be reached at 661-273-3000 (fax: 661-273-4240, <mailto:email@spaceagecontrol.com>, <http://www.spaceagecontrol.com>).

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