



The 100400 air data probe on the left wing-tip of the Terrafugia Transition. ([high-resolution graphic](#)).
The Terrafugia Transition in flight with the 100400 air data probe. ([high-resolution graphic](#)).

Terrafugia Selects SpaceAge Control 100400 Air Data Probe for Transition Roadable Aircraft

Air Data Probe Size and Mass Match Requirements of Leading-Edge Light Sports Aircraft.

PALMDALE, CALIFORNIA USA -- SpaceAge Control, Inc. has been selected by Terrafugia, Inc. to provide the miniature 100400 air data boom for the Transition roadable aircraft. The 100400 probe provides all primary air data pressure information required by the aircraft during flight testing. The 100400 air data probe provides leading-edge low mass and small size airborne data for small aircraft and UAVs.

The 100400 air data probe and similar SpaceAge Control solutions offer several benefits over traditional and in-house developed air data solutions including low mass (6 ounces) and single-point total pressure, static pressure, angle-of-attack, and angle-of-sideslip data gathering. The product, initially developed in concert with NASA, addresses the unique requirements of smaller-sized aircraft such as unmanned aerial vehicles and light aircraft. The Terrafugia Transition is one of several new aircraft programs using SpaceAge Control 100400, 101100, 4383, and 4418 air data probe technology.

Key points about Terrafugia's Transition:

- The Transition is a Light Sport Aircraft (LSA) that is road legal; referred to as a "roadable aircraft". Unlike traditional flying cars, which can be anything from a military hovercraft to a road car with wings grafted onto it, the Transition is first and foremost an aircraft. It is designed primarily for sport and private pilots who fly to business and personal engagements and need a road vehicle for commuting to and from airports.
- In addition to its flight assemblies, the Transition has a full automotive suspension, crumple zones, and roll cages to meet safety standards for road vehicles. Its wings fold to the side with the push of a button in the cockpit.

Terrafugia Quotes

"The challenges we encounter in collecting ground and airborne air data are made easier with the use of the SpaceAge Control mini air data probe. Its small size and excellent low airspeed performance, coupled with its low mass and power requirements makes the 100400 air data probe a perfect fit for the Transition's flight test program."

"Right out of the box, the 100400 mini air data probe worked perfectly. Airspeed, Altitude, Alpha and Beta were all reliably and accurately captured."

"The initial flight test with full instrumentation went off without a hitch and the data collected by the 100400 air data probe will be invaluable in validating and improving the design."

Dr. Samuel Schweighart
Vice President of Engineering and Co-Founder
Terrafugia

Spaceage Control Quote

"We are excited about the use of the miniature 100400 air data probe on the Terrafugia Transition. This project serves as a testimony of the value of the 100400-type design to the UAV and light aircraft markets. The Transition should make excellent use of the low- and moderate-speed performance realms of the air data probe."

Hector Ruvalcaba
Operations
SpaceAge Control, Inc.

About Spaceage Control

Established in 1968, SpaceAge Control is an ISO9001:2000/AS9100B-compliant company leading the air data and displacement sensing industries with stock and engineered-to-order products. Typical air data products provided include pitot probes, pitot-static probes, air temperature sensors, angle-of-attack sensors, static pressure ports, and air data booms. Located in Palmdale, California USA near NASA Dryden, Edwards AFB, Lockheed Martin Skunk Works, and Scaled Composites, SpaceAge Control's high-precision and durable products are used by over 200 companies spanning the globe including aircraft manufacturers, racing teams, vehicle manufacturers, and motion control OEMs.

About Terrafugia

Terrafugia (ter-ra-FOO-gee-ah), based in Woburn, MA, is comprised of a team of award-winning engineers who have been advancing the state of personal aircraft since 2006. Founded by five pilots who are graduates of MIT and supported by a world-class network of advisors and private investors, Terrafugia's mission is the innovative expansion of personal mobility. "Terrafugia" is based on Latin for "escape from land." For more information, visit <http://terrafugia.com/>.

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Resources

- [High-Resolution Image A \(jpg\)](#)
 - ◆ Photo caption is "The 100400 air data probe on the left wing-tip of the Terrafugia Transition. Photo credit: Terrafugia."
- [High-Resolution Image B \(jpg\)](#)
 - ◆ Photo caption is "The Terrafugia Transition in flight with the 100400 air data probe. Photo credit: Terrafugia."
- [High-Resolution Image C \(jpg\)](#)
 - ◆ Photo caption is "The SpaceAge Control 100400 air data probe with pitot, static, angle of attack, and angle of sideslip outputs."
- [100400 Data Sheet \(pdf\)](#)
- [100400 Overview \(pdf\)](#)
- [4383-01 Data Sheet \(pdf\)](#)
- [4418-01 Data Sheet \(pdf\)](#)

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