

APPLICATIONS ABSTRACT

Engineering Flow-Measurement Solutions

Unique challenges. Quality solutions.

AeroFlow transforms test-pressures obtained from an Aeroprobe multi-hole probe into three-dimensional flow vectors using Aeroprobe's advanced reduction algorithms. AeroFlow is a Windows-based program which works with all calibrated Aeroprobe multi-hole probes. AeroFlow is available in as standalone application for basic users. For advanced integrated applications, the developer's version of AeroFlow provides the Windows libraries which can be used to integrate the AeroFlow reduction algorithms into another Windows application.



ONE SOURCE FOR A FULL SOLUTION.

AeroFlow is the single data analysis tool for all Aeroprobe multi-hole probes. AeroFlow is a user-friendly, streamlined software package which yields flow velocities within $\pm 1\%$ or ± 1 m/s error and flow direction to within $\pm 1^\circ$. AeroFlow speeds the reduction process by batch processing multiple data files for multiple probes with a single click. AeroFlow's probe loader stores installed probes and probe calibrations files in a library and data file can be associated with probe by choosing it from the library. Basic graphs of the reduction results are automatically generated within AeroFlow and advanced visualization of the multi-dimensional and time series data can be graphed using the Advanced Graphics Package. The developers version of AeroFlow can be used integrate the reduction of Aeroprobe multi-hole probe data into a custom data analysis package.

*Utilizing 0.1% Accurate Pressure Sensors Properly Rated for Dynamic Pressure.



CAPABILITIES

Batch Processing

Average Measured Angular Deviation of $<1^\circ$

Average Measured Velocity Deviation of 1% or ± 1 m/s (whichever is larger)

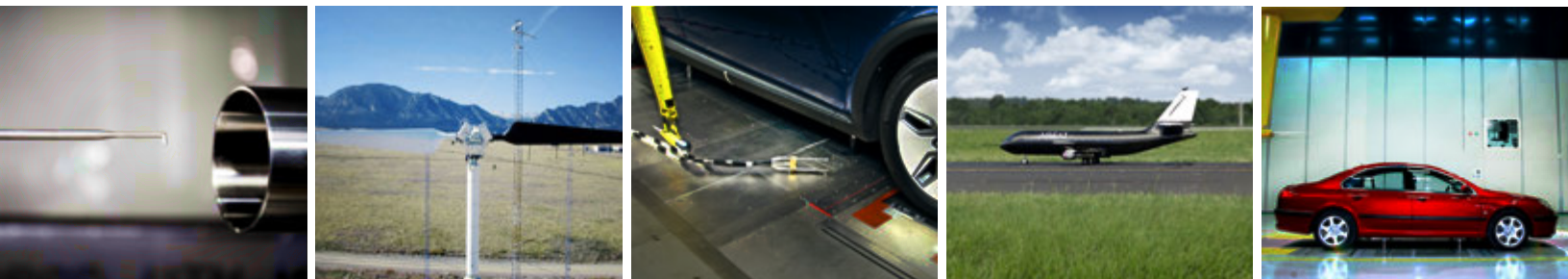
Compatible with Aeroprobe Pressure Data Acquisition

Saving Projects

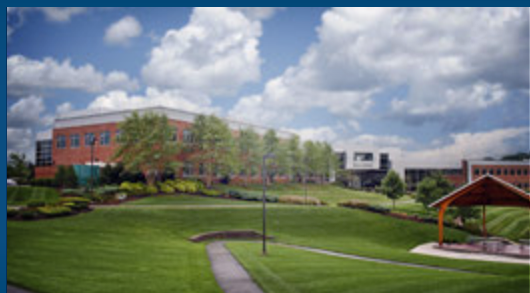
Graphical Output

Stored Probe Library

** Reported probe calibration accuracies are based on the measured error values for a comprehensive set of test points collected in Aeroprobe's laboratory wind tunnel facilities. Flow environments exist where expected errors could be larger. Contact Aeroprobe for more information.



ABOUT AEROPROBE



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Aeroprobe provides air data measurement systems to aerospace, automotive, turbomachinery, wind turbine, and wind tunnel testing industries around the world. Aeroprobe's air data systems for unmanned aircraft provide real time air speed, angle of attack and angle of sideslip for improved flight performance. Turnkey systems include instrumentation for measurement, hardware for data collection, and software for data reduction, analysis and visualization. High temperature probes operate in flows up to 1200°C . Omniprobes, featuring a 300° flow angle range, are capable of measuring reversed flow. Fast response probes provide a frequency response exceeding 4 KHz. Rake configurations allow for simultaneous multi-point, unsteady measurements. The company conducts international business through a network of over 20 distributors.