AEROPROBE
Revolutionary Technology

FAST RESPONSE SYSTEMS

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PRODUCT ABSTRACT

Engineering Flow-Measurement Solutions

Unique challenges. Quality solutions.

Aeroprobe has extended its flow measurement expertise into the unsteady regime with its line of Fast Response Systems. Available with frequency responses up to 5 KHz, Fast Response Systems are perfectly suited for a wide variety of applications including profiling unsteady wakes behind stationary or moving components in flow and actively measuring dynamic flow separation and reattachment.

Aeroprobe's Fast Response Systems and pressure-to-velocity reduction software measure and report Static and Total pressure, in addition to velocity components and other parameters.

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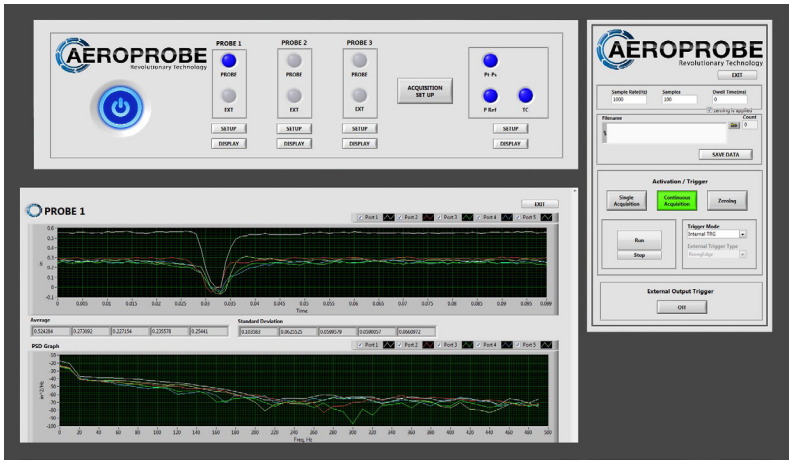
INNOVATIVE TECHNOLOGY

Aeroprobe's Fast Response Probes are capable and flexible for unsteady measurement applications. Extremely small flow structures can be measured; like our conventional pressure probes, the Fast Response Probes are available with tip diameters down to 1.6mm.

Fast Response probes contain sensors, amplifiers, and power conditioning circuitry to provide accurate, low-noise measurements in both laboratory and application implementations. Aeroprobe offers a complete Fast Response Solution, including data acquisition hardware and data processing tools integrated in a user-friendly software interface.



CAPABILITIES

Tip diameters as small as 1.6mm

Average Measured Angular Deviation of <1°

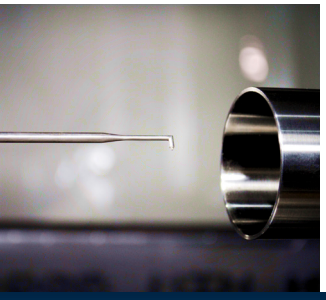
Average Measured Velocity Deviation of ±1% or ±1 m/s (whichever is larger) **

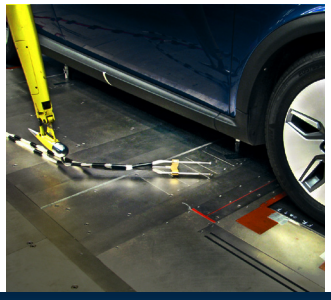
Frequency Response up to 4.5 kHz

Probe Calibrations from 5 m/s to Mach 2.0

Acoustic calibrations are performed to avoid signal attenuation at high frequencies.

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





ABOUT AEROPROBE

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.

CONTACT AEROPROBE

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