

AEROSPACE, DEFENSE, AUTOMOTIVE AND MOTORSPORT TESTING

5-Hole Probes

High-fidelity three-dimensional flow vector measurement in a compact, robust instrument.

KEY SPECIFICATIONS

Accuracy	±0.25%
Flow angle	Up to ±45°
Maximum temperature	980°C
Minimum probe head diameter	2 mm
Materials	Stainless steel (typical), titanium (weight-critical), Inconel (high temperature)
Static ring	Available with or without an integrated static ring
Manufacturing method	Direct Metal Laser Sintering (DMLS)
Calibration	Individual calibration across five flow speeds and the full yaw and pitch range; supplied as lookup tables

NOTES

Five ports resolve total pressure, static pressure and flow direction in yaw and pitch. Supplied with or without an integrated static ring.

All probes are individually calibrated across five flow speeds and their full yaw and pitch range. Calibration data is supplied as lookup tables.

TYPICAL APPLICATIONS

VTOL and UAV development. Flow angle and pressure measurement at the front of an aircraft or UAV.

Civil engineering flows. Three-dimensional wind and flow characterization.

Experimental research. Wind tunnel and flow-field surveys that need the complete flow vector.

INTEGRATED SENSING AND SUPPORT FROM K-TEC SYSTEMS

K-Tec Systems manufactures custom thermocouples, RTDs, wire harnesses and test stands in Ferndale, Michigan. Thermocouples and RTDs can be incorporated into compatible probe designs for simultaneous flow and temperature measurement. Contact us for a quotation or an application review.

K-Tec Systems

2615 Wolcott St, Ferndale, MI 48220 | 248-414-4100 | k-tecsystems.com
CAGE Code 4W0S0 | WBENC and WOSB certified woman-owned small business | CMMC Level 2

Specifications are manufacturer values and may change. Confirm configuration, material and lead time at quotation.