

AEROSPACE, DEFENSE, AUTOMOTIVE AND MOTORSPORT TESTING

Kiel Probes

Accurate total pressure measurement across wide flow angles.

KEY SPECIFICATIONS

Accuracy	±0.1%
Flow angle	Up to ±50°
Maximum temperature	980°C
Minimum diameter	1.6 mm
Materials	Stainless steel or Inconel
Manufacturing method	Direct Metal Laser Sintering (DMLS)
Calibration	Wind-tunnel calibration data included with standard configurations
Custom configurations	Probe heads integrated into custom shapes, rakes and complex installations

STANDARD CONFIGURATIONS

Model	Diameter	Head angle	Notes
KP12	1.6 mm	90°	Standard
KP37	1.6 mm	0°	Standard
KP57	4 mm	0°	M4 thread

NOTES

A traditional pitot tube is generally accurate over ±5°. The Kiel probe's outer shroud aligns the flow with the internal measurement tube, maintaining accuracy at high flow angles.

Produced by Direct Metal Laser Sintering (DMLS) in stainless steel or Inconel. Probe heads can be integrated into custom shapes, rakes or complex installations.

TYPICAL APPLICATIONS

Engine inlets and exhaust ducts. Total pressure where the local flow angle changes during a test.

On-vehicle measurement. Total pressure accurate at yaw and pitch angles well beyond a pitot tube's range.

Wind tunnel and flow-field work. Compact 1.6 mm heads for analysing complex flow structures.

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

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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.