

Conventional Multi-Hole Aeroprobe Specifications

Geometry and Construction		Measurement Accuracy (w/Aeroprobe Calibration)	
Probe Geometry	Straight, L-Shaped, Cobra	Flow Angles	< 0.4°
Number of Holes	3, 5, 7	Total Flow Velocity	< 0.8%*
Tip Geometry	60° Conical (5HP, 7HP), Hemispherical (3HP)	Required Auxiliary Data**	Reference Pressure, Total Temperature
Tip Diameter	6.35 mm, 4.8 mm, 3.2 mm Standard; 1.6 mm, 2.4 mm Optional		
Material	Brass Tip, Ferrules and Hex Mount. Shafts and Internal Tubing Stainless. All-Stainless Option Available.	Flow Angle of Receptivity	±15° (3HP, One Angle), 60° (5HP, Cone), 70° (7HP, Cone)
Pneumatic Connection	Tygon R3603 Formulation, 1/32" ID, 3/32" OD Standard for Exit Tubing of 0.89 mm – 1.6 mm (0.035" – 0.063") OD.	Calibration Flow Speeds	5 m/s to 1000 m/s (Mach = 3.0)
		Pressure Data Reduction	Polynomial Fit (3HP), Multiprobe Software (5HP, 7HP)
Mounting	Hex Prism (Standard), Rectangular Prism, Cylindrical	Frequency Response	Low, Best for Determining Time-Averaged Flows, Time Lag Available Upon Request
Probe Reference			
Straight Probe	Flat on Hex Mount		
Bent Probe	Plane of Bent Probe Tip	Media	Non-Reactive Gases (Brass/Stainless), Water (Stainless, 6.35 mm Tip OD Recommended); Other Media Possible – Contact Aeroprobe
Flow Temp. Limits	0°C – 150°C; Wider Limit Options Available	Temperature Measurement	Tip Thermocouple Option, Compatible with AeroAcquire Data Acquisition Software
		*Utilizing 0.1% Accurate Pressure Sensors Properly Rated for Flow Speed	
		**For Most Accurate Compressible P-V Reduction	