



**Conventional Omniprobe (12/18-Hole Probe) Specifications**

Geometry and Construction		Measurement Accuracy (w/Aeroprobe Calibration)	
Probe Geometry	Straight, L-Shaped	Flow Angles	< 0.4°
Number of Holes	12, 18	Total Flow Velocity	< 0.8%*
Tip Geometry	Spherical	Required Auxiliary Data**	Reference Pressure, Total Temperature
Tip Diameter	9.53 mm; 6.35 mm Standard Option		
Material	Brass Tip, Ferrules and Hex Mount. Shafts and Internal Tubing Stainless. All-Stainless Option Available for 9.53 mm Probe Tip ONLY.	Flow Angle of Receptivity	<b>Cone Angle:</b> <ul style="list-style-type: none"> <li>• V &lt; 60 m/s: 160°</li> <li>• V &gt; 60 m/s: 150°</li> </ul>
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 320 m/s (Mach = 3.0)
		Pressure Data Reduction	Omnipro Software, Returns Flow Vector from Set of Port Pressures
Mounting	Hex Prism (9.53 mm Flat-to-Flat Standard), Rectangular Prism, Cylindrical	Frequency Response	Low, Best for Determining Time-Averaged Flows, Time Response/Bandwidth Available Upon Request
Probe Angle Reference		Media	Non-Reactive Gases (Brass/Stainless). Other Media Possible – Contact Aeroprobe
	Straight Probe		
	Bent Probe	Plane of Bent Probe Tip	Temperature Measurement
Flow Temp. Limits	0°C – 150°C; Higher Temperature Options Available	*Utilizing 0.1% Accurate Pressure Sensors Properly Rated for Flow Speed	
		**For Most Accurate Compressible P-V Reduction	