

VOLU-probe /1AS

EXTERNALLY MOUNTED

AMPLIFIED SIGNAL AIRFLOW TRAVERSE PROBES

STANDARD CONSTRUCTION	
Probe.	3/4" or 1-3/8" dual chambered. Type 6063 anodized aluminum extrusion and mounting plate.
Mounting.	External duct mounted. Threaded end support for probes greater than 18" long.
Connection Fittings.	1/4" brass compression type.
Operating Temperature.	Continuous operation to 200°F.

PERFORMANCE SPECIFICATIONS	
Accuracy.	2%; dependent upon quantity and placement of probes to achieve traverse of ducted airflow.
Outputs.	Individually averaged signals of total and static pressure.
Operating Velocity.	120 to 600 FPM.
Directional Sensitivity.	Not measurably affected by directional airflows with pitch and yaw angles up to 30°.
Traverse Pattern.	On an equal area basis for rectangular probes. On an equal concentric area basis for circular probes.
Resistance.	Less than 0.1 times the velocity pressure head at probe operating velocity.
Flow Equation.	Round Ducts: $CFM = Area \times 2897 \times \text{Sqrt}(DP) @ 70^\circ F \text{ and } 29.921" \text{ Hg.}$ Rectangular Ducts: $CFM = Area \times 2761 \times \text{Sqrt}(DP) @ 70^\circ F \text{ and } 29.921" \text{ Hg.}$

OPTIONAL CONSTRUCTION	
Protective Coatings.	Connection Fittings.
<input type="checkbox"/> Epoxy Polyamide	<input type="checkbox"/> 3/8" brass compression type
<input type="checkbox"/> Polyurethane	<input type="checkbox"/> Brass barbed for 1/4" OD tubing
	<input type="checkbox"/> Brass barbed for 3/8" OD tubing

DIMENSIONAL SPECIFICATIONS

DIMENSIONAL CHART					
A"	B"	C"	D"	E"	MOUNTING PLATE
8-48	.75	1.25	.31	1.50	4" x 4"
>48-144	1.38	2.00	.38	2.00	6" x 6"

