

VOLU-probe / 1SS with 4"-150 lb. FLANGE

EXTERNALLY MOUNTED

STAINLESS STEEL AIRFLOW TRAVERSE PROBE

STANDARD CONSTRUCTION

Probe. 1/2", 3/4", or 1" tube sensing manifolds, threaded end support, washer and nut, 4"-150 lb. R.F. mounting flange with handles, signal connection fittings, and identification tag, all fabricated of Type 316 stainless steel.

Mounting. External duct mounted. Threaded end support for probes greater than 18" long.

Connection Fittings. 1/2" FPT stainless steel.

Operating Temperature. Continuous operation to 900°F.

PERFORMANCE SPECIFICATIONS

Accuracy. 2-3%; dependent upon quantity and placement of probes to achieve traverse of ducted airflow.

Outputs. Individually averaged signals of total and static pressure.

Operating Velocity. 400-10,000 FPM.

Directional Sensitivity. Not measurably affected by directional airflows and 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.

OPTIONAL CONSTRUCTION

<p>Flange Standoff</p> <input type="checkbox"/> 4" (standard) <input type="checkbox"/> Other _____	<p>Bolt Hole Orientation</p> <input type="checkbox"/> 1 - Up <input type="checkbox"/> 2 - Up (standard)	<p>Connection Fittings</p> <input type="checkbox"/> 1/4" Compression <input type="checkbox"/> 1/2" Compression	<p>Signal Connection</p> <input type="checkbox"/> Cleanout
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DIMENSIONAL SPECIFICATIONS

4"-150 lb. R.F. MOUNTING FLANGE

T.P. CONNECTION FITTING

S.P. CONNECTION FITTING

1-UP BOLT HOLE ORIENTATION SHOWN

NOMINAL PROBE LENGTH = $A+G-.25"$

A = DUCT I.D.

B = MANIFOLD DIA.

FLANGE STANDOFF

FLANGE STANDOFF

THREADED END SUPPORT W/SEALING WASHER AND NUT. FOR PROBES OVER 18" LONG.

DUCT WALL

22.5°

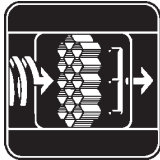
2-UP BOLT HOLE ORIENTATION (HANDLES NOT SHOWN)

DIMENSIONAL CHART				
A"	B"	C"	D"	E"
12-18	.50	1.50	4.0	NONE
>18-24	.50	1.50	4.0	.31
>24-120	.75	2.00	4.0	.38
>120-240	1.00	2.25	4.0	.56

OPTIONAL SIGNAL TAKEOFFS WITH CLEANOUT TEES

INSERTION HOLE

END HOLE



AIR MONITOR CORPORATION