

VOLU-probe / 1SS with 4"-150 lb. FLANGE and TEMPERATURE 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.
Temperature Sensor.	Stainless steel sheath.
Temperature J-Box.	NEMA 4 cast aluminum.
Temperature Transmitter.	2-wire, 4-20mA output.

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				
Flange Standoff	Bolt Hole Orientation	Connection Fittings	Signal Connection	Temperature Sensor
<input type="checkbox"/> 4" (standard)	<input type="checkbox"/> 1 - Up	<input type="checkbox"/> 1/4" Compression	<input type="checkbox"/> Cleanout	<input type="checkbox"/> Single point 100 ohm, platinum RTD
<input type="checkbox"/> Other _____	<input type="checkbox"/> 2 - Up (standard)	<input type="checkbox"/> 1/2" Compression		<input type="checkbox"/> Single-point thermocouple
				<input type="checkbox"/> Multi-point thermocouple

DIMENSIONAL SPECIFICATIONS

4" - 150 lb. R.F. MOUNTING FLANGE
T.P. CONNECTION FITTING
AIRFLOW
S.P. CONNECTION FITTING
1-UP BOLT HOLE ORIENTATION SHOWN

MOUNTING HARDWARE & GASKETS BY OTHERS
NOMINAL PROBE LENGTH = A+G-.25"
A = DUCT I.D.
AIRFLOW BARRIER
TEMP PROBE
B = MANIFOLD DIA.
T.P. SENSOR
S.P. SENSOR
SPACER PLATES (AS REQUIRED)
THREADED END SUPPORT WITH SEALING WASHER & NUT. FOR PROBES OVER 18" LONG.
DUCT WALL
22.5°
T.P.
AIRFLOW
S.P.
2-UP BOLT HOLE ORIENTATION (HANDLES NOT SHOWN)

9" NOMINAL
G
FLANGE STANDOFF
OPTIONAL SIGNAL TAKEOFFS WITH CLEANOUT TEES
INSERTION HOLE
END HOLE

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



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