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. Continuous operation to 900°F. Operating Temperature. Temperature Sensor. Stainless steel sheath. Temperature J-Box. NEMA 4 cast aluminum. 2-wire, 4-20mA output. **Temperature Transmitter.** PERFORMANCE SPECIFICATIONS Accuracy. 2-3%; dependent upon quantity and placement of probes to achieve traverse of ducted airflow. Individually averaged signals of total and static pressure. Outputs. Operating Velocity. 400-10,000 FPM. Not measurably affected by directional airflows and pitch and yaw angles up to 30°. **Directional Sensitivity.** 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 ☐ 1/4" Compression Cleanout ☐ Single point 100 ohm, 4" (standard) 🔲 1 - Up 1/2" Compression Other _ 2 - Up (standard) platinum RTD Single-point thermocouple ☐ Multi-point thermocouple **DIMENSIONAL SPECIFICATIONS** MOUNTING 4"-150 lb. R.F. NOMINAL PROBE LENGTH = A+G-.25" **HARDWARE** MOUNTING FLANGE THREADED END -A = DUCT I.D. -& GASKETS SUPPORT WITH BY OTHERS SEALING WASHER T.P. SENSOR AIRFLOW BARRIER & NUT. FOR PROBES OVER CONNECTION 烅 TEMP PROBE FITTING B = MANIFOLD DIA. 18" LONG. 0 0 DUCT WALL S.P. SENSOR S.P. CONNECTION **FITTING** 22.5° SPACER PLATES 1-UP BOLT HOLE (AS REQUIRED) ORIENTATION SHOWN Ó **FLANGE** 9" NOMINAL --STANDOFF DIMENSIONAL CHART **A**" B" C" D" E" 12 - 18.50 1.50 4.0 NONE >18-24 .50 1.50 4.0 .31 OPTIONAL SIGNAL TAKEOFFS WITH CLEANOUT TEES .75 2.00 4.0 >24-120 .38 INSERTION HOLE END HOLE 2-UP BOLT HOLE



ORIENTATION

(HANDLES NOT SHOWN)

>120-240 1.00 2.25 4.0