VOLU-probe /1SS with TEMPERATURE SENSOR 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, mounting plate, 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. Mounting Gasket. Neoprene. 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** Connection Fittings. Signal Connection. High Temperature Gasket. Temperature Sensor. ☐ Cleanout ☐ Single-point 100 ohm, platinum RTD. ☐ Silicone; 200-400°F. ☐ 1/4" Compression 1/2" Compression ☐ Fiber; 400-900°F. Single point thermocouple. Multi-point thermocouple. **DIMENSIONAL SPECIFICATION** FORMED MOUNTING PLATES PROVIDED -A = DUCT I.D. -MOUNTING PLATE FOR CIRCULAR DUCTS (≤ 73" DIA.) WITH GASKET THREADED END NOMINAL PROBE LENGTH = A-.25" **PROVIDED** SUPPORT W/SEALING TEMP PROBE T.P. SENSOR WASHER AND NUT FOR PROBES OVER T.P. CONNECTION = MANIFOLD DIA 18" LONG. FITTING С S.P. CONNECTION DUCT WALL FITTING SPACER PLATES S.P. SENSOR (AS REQUIRED) q" NOMINAL OPTIONAL SIGNAL - TEMPERATURE TAKEOFFS WITH CLEANOUT TEES INDUSTRIAL HEAD DIMENSIONAL CHART .50 MOUNTING END HOLE **TEMP** Ε" PLATE Ø .31 .38" (REF.) (i) TP .50 12-18 1.50 2.50 NONE 4" x 4" AIRFLOW 0 () TP .50 1.50 2.50 .31 >18-24 AIRFLOW O SP .75 (D)SP >24-120 2.00 4.00 .38 6" x 6" 120-240 1.00 2.25 4.00 .56 6" x 6" **INSERTION HOLE** MOUNTING PLATE MOUNTING PLATE

