

PRICE® SP300 Sensor

THE PRICE SP300 VELOCITY PRESSURE SENSOR REPRESENTS THE NEXT GENERATION OF AIRFLOW MEASUREMENT DEVICES SIGNIFICANTLY ADVANCING VAV SENSING TECHNOLOGY

IMPROVED ACCURACY:

- ▶ Multiple sensing ports
- ▶ Center averaging chamber
- ▶ Amplified Velocity Pressure Signal
- ▶ Measurement accuracy within 5% with a 90° elbow directly at the terminal inlet

MULTI-POINT SENSING:

- ▶ Twelve total pressure ports ensure an accurate representation of the airflow even with non-uniform velocity distribution
- ▶ Total and static pressure port locations have been determined by extensive lab tests for maximum accuracy
- ▶ Center averaging chamber collects and averages the velocity pressure signals from the multiple ports, providing a true indication of flow

OPTIMAL SIGNAL AMPLIFICATION:

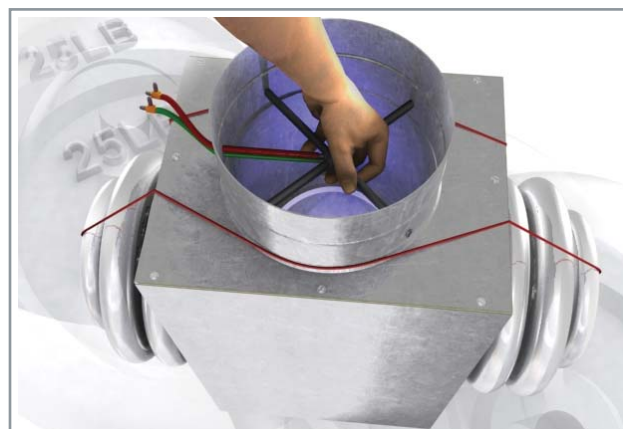
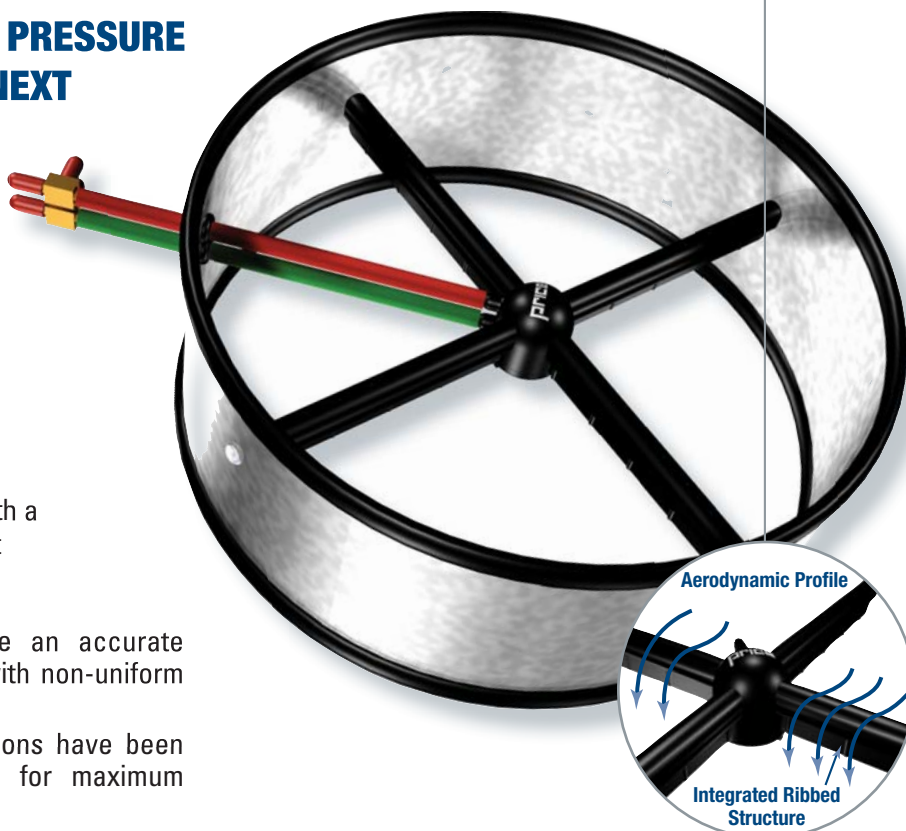
- ▶ Sensor design amplifies the actual duct velocity pressure, increasing accuracy at low flow rate
- ▶ Amplified signal of SP300 sensor matches the input range of VAV controllers for maximum accuracy
- ▶ Precise control at minimum flow setting enhances IAQ, reduces heating requirements and increases room comfort conditions

AERODYNAMIC PROFILE:

- ▶ Sensor tubes are rounded with minimum cross-section
- ▶ Center averaging chamber is designed with a smooth, aerodynamic shape. Aerodynamic profile results in negligible pressure drop or noise contribution

STRUCTURAL INTEGRITY:

- ▶ A rigid support frame is designed at the back of the sensor resulting in superior structural integrity
- ▶ Plastic material is Fire Resistant and meets UL94-V-0



The PRICE SP300 has superior tensile strength. Price does not recommend lifting terminals by the air flow sensor, however, it is often a common practice in the field. With this in mind, the SP300 has been designed with molded reinforcement to prevent accidental handling damage. To ensure reliability, the Price SP300 was subjected to numerous tensile strength tests. These tests prove that the SP300 successfully withstands loads beyond 115 lbs, significantly exceeding the weight of a typical Single Duct Terminal Unit.