

SERIES AFS FloSen® Airflow Sensor



- High Accuracy
- Aero-Dynamic Elliptical Shape
- Easy Installation
- Perfect for VAV Retrofits

The Series AFS Air Flow Sensor is a differential pressure air velocity sensor designed to measure average air velocities in VAV terminal units and HVAC ductwork. It has an aero-dynamic elliptical shape resulting in a minimum pressure drop and amplified differential pressure signals which allow accurate measurement of air velocities from 300 fpm to 5000 fpm (1.5 m/s to 20 m/s). It includes multiple sensing points aligned in in-line grooves to measure total and static pressure. It is easy to install and cost effective.

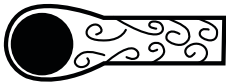
COMPARISONS

ELLIPSE VS. ROUND

The Elliptical Advantage



- Flow boundary layers attached to probe surface
- No separation effects
- No vacuum effects
- No vortex generation
- Low drag coefficient
- High repeatability



- Low static pressure signal affected by separation
- Vacuum effects limit turndown ratio to 4 to 1
- Variable intensity vortices generated downstream, creates signal amplifications, vibrations and acoustic problems
- High drag coefficient creates high pressure loss

SPECIFICATIONS

Velocity Range: 300 - 5000 FPM (1.5 - 25 m/s)

Probe Length: 4 - 16" (100 - 400 mm)

Accuracy: 1%

Temperature Range: 32° to 175°F (0° to 80°C)

Materials: Aluminum

Pressure Connections: 3/16" ID tubing (4mm)

Flow Coefficient: 0.773

PART NUMBER CONFIGURATION

Sample: AFS-006-C

