

VFXP SERIES

Air Velocity/Measurement Probe For Use With PX3 Series Differential Pressure/Air Velocity Transducer



The VFXP Series probe is a differential air pressure device designed to measure air velocities in a duct. It includes multiple sensing points to measure total and static pressures. The VFXP Series incorporates a unique design to amplify the differential pressure by approximately 2.5 times for accurate measurement of lower air velocities down to 200 fpm. It is easy to install and cost effective.

FEATURES

- Multiple sensing points for greater accuracy
- Easy installation
- Chamfered sensing points for consistent readings
- 2% accuracy
- 2.5x signal amplification
- Accepts 1/4-inch OD tubing

MOUNTING

- Check that the VFXP is sized correctly for the duct in which it is being installed.
- The VFXP is mounted in the duct through a 1-inch (2.54 cm) hole.
- Secure the opposite end with the provided threaded bolts.
- Ensure that the flow direction of the air in the duct corresponds with the arrow printed on the label of the VP flow sensor probe.
- For round ducts, install the VP diagonally to minimize the irregularities of the air flow patterns in the horizontal and vertical planes.

ORDERING INFORMATION

Probe Length*

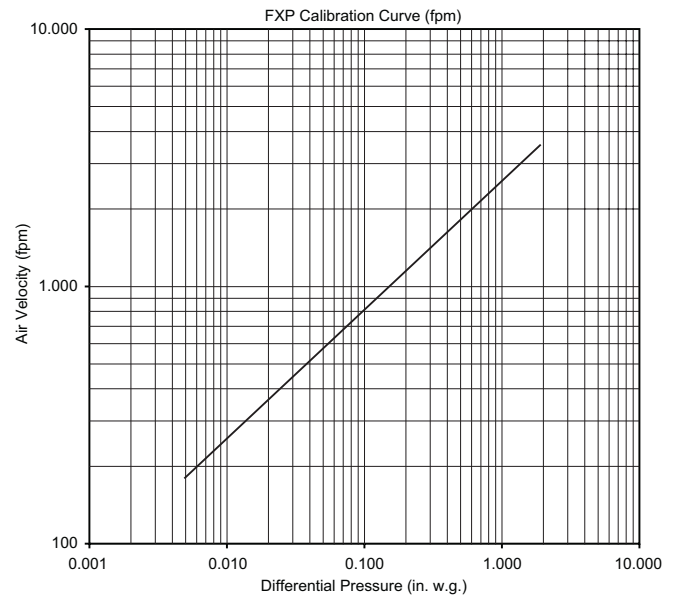
VFXP-

06 = 6 in. (15.24 cm)
 08 = 8 in. (20.32 cm)
 10 = 10 in. (25.40 cm)
 12 = 12 in. (30.48 cm)
 14 = 14 in. (35.56 in.)

Example:
 VFXP- 10

*Contact your Veris sales representative for projects requiring a longer probe length.

PERFORMANCE WIRING



CONFIGURING VELOCITY OUTPUT

Calibration is necessary because the VXFP probe samples multiple points within a cross-section of a duct to obtain an average.

When the VXFP probe is used in conjunction with a Veris PX3 Differential Pressure/Air Velocity Transducer, the value reported by the PX3 (in Velocity mode) must be divided by the corresponding PX3 Divisor in the Calibration Chart.

Calibration Chart

| PROBE LENGTH | PX3 Divisor |
|-------------------|-------------|
| 6 in. (15.24 cm) | 1.678 |
| 8 in. (20.32 cm) | 1.615 |
| 10 in. (25.40 cm) | 1.641 |
| 12 in. (30.48 cm) | 1.602 |
| 14 in. (35.56 cm) | 1.586 |



MINIMUM STRAIGHT DUCT APPROACH

