



## DIFFERENTIAL PRESSURE AIR VELOCITY SENSORS FXP SERIES

### DESCRIPTION

The **FXP Series** probe is a differential air pressure sensor designed to measure air velocities in HVAC ductwork. It uses multiple sensing points to measure total and static pressures and incorporates a unique design to amplify the differential pressure by approximately 2.5 times for accurate measurement of 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" OD tubing



FXP - 10

### INSTALLATION

Check that the FXP probe size corresponds with the duct or terminal where it is installed. The FXP probe is mounted in the duct by drilling a 1" diameter hole. Check that the air flow direction in the duct corresponds with the arrow on the FXP probe. For round ducts, install the FXP probe diagonally in the duct for best results. This equalizes both horizontal and vertical irregular air approach.

### SIZING THE PRESSURE TRANSMITTER

- CFM- Cubic feet per minute (customer furnished)
- A- Area square feet (customer furnished)
- V- Velocity feet per minute (customer furnished)
- ΔP- Differential pressure in WC"
- Use formula B to calculate the ΔP for transmitter

$$V(\text{FPM}) = \frac{\text{CFM}}{A}$$

$$\Delta P = \left[ \frac{V}{Kv} \right]^2$$

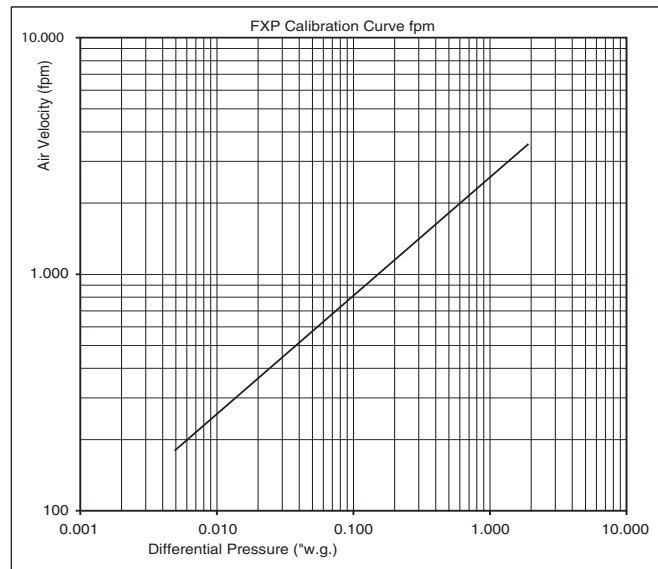
$$V = Kv * \sqrt{\Delta P}$$

Formula A

Formula B

FXP Calibration Chart					
Size	Kv	Size	Kv	Size	Kv
4"	2225	7"	2450	12"	2500
5"	2325	8"	2480	14"	2525
6"	2400	10"	2440	16"	2550
18" and up		2550			

### PERFORMANCE CHART



### ORDERING INFORMATION

MODEL	DESCRIPTION
FXP	FXP air velocity sensor
<b>WIDTH</b>	
XX	Duct width (up to 48")

#### T-101

#### RELATED PRODUCTS

1/4" OD black poly tubing, 1 coil, 250 ft (76 m)

#### M264 Series

Setra differential pressure transmitter

#### CX, RX, XLdp Series

Ashcroft differential pressure transmitters