

## DIFFERENTIAL PRESSURE AIR VELOCITY SENSORS FXP SERIES

### DESCRIPTION

The **Kele FXP Series probe** uses differential air pressure to measure air velocities in HVAC ductwork. It has 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**
- **One year warranty**



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. Connect 1/4" tubing to the hi and low ports and connect to a separately purchased differential pressure transmitter. Connect 1/4" tubing to the Hi & Low ports and connect to a separately purchased differential pressure transmitter.

### 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

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

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

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

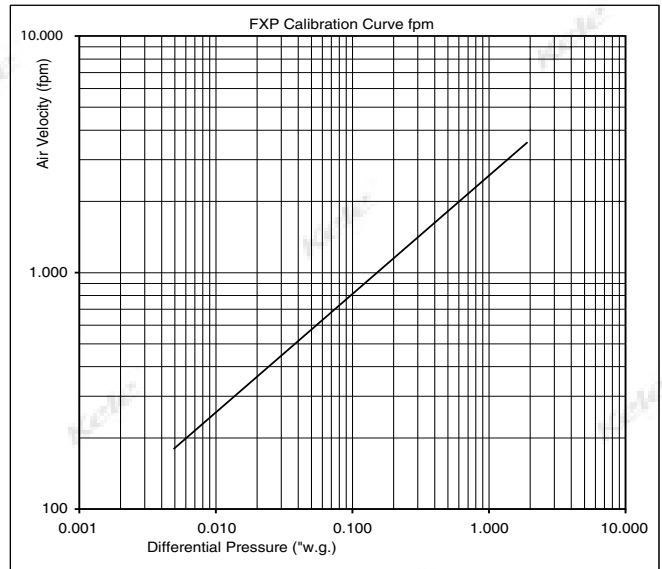
Formula A

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"	2490	16"	2550
18" and up			2550		

### PERFORMANCE CHART



### ORDERING INFORMATION

MODEL	DESCRIPTION
FXP	FXP air velocity sensor w 1/4" od tubing barbs
	<b>WIDTH</b>
XX	Duct width (up to 48")

### RELATED PRODUCTS

- T-101** 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