

FAN INLET AIRFLOW MEASURING PROBE KIP SERIES

DESCRIPTION

The **KIP Series Fan Inlet Airflow Measuring Probe** provides a reliable and economical means to measure airflow at fan inlets. Similar to airflow stations, the probe measures velocity pressure with multiple averaging pickups for total and static pressure. Rugged, lightweight, and easy to install, it is used with industry-standard differential pressure transmitters, gauges, or manometers. **KIP Series** probes install easily at the fan inlet and do not require straight duct runs. They are particularly applicable for jobs where fitting a flow measuring station is difficult or impossible.

FEATURES

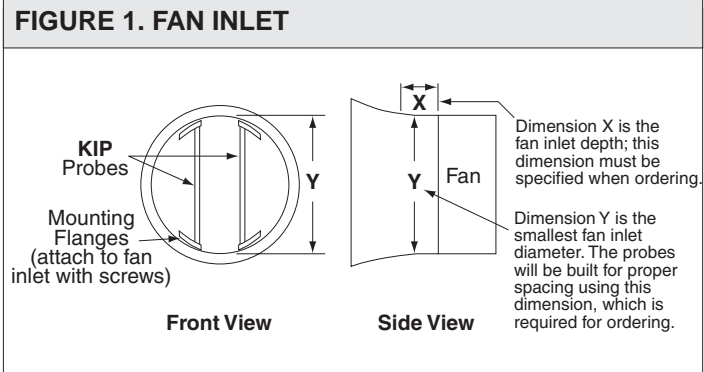
- *Easy and quick to install*
- *Accurate and repeatable*
- *Economical*
- *Lightweight and rugged*
- *No straight duct runs required*
- *High velocity, high differential*
- *Standard airflow calculations*



KIP for Fan Inlet
Depth $\geq 3.5"$

KIP for Fan Inlet
Depth 0.5" to 3.5"

SPECIFICATIONS	
Accuracy	$\pm 2\%$
Max temp	400°F (204°C)
Min design flow	400 fpm (122 mpm)
Max design flow	12,000 fpm (3658 mpm)
Pitot/Static sensors	Aluminum with anodized finish
Pressure connections	1/4" barb



APPLICATION

The fan inlet diameter dimension (Y), and the fan inlet depth dimension (X), shown in Figure 1 above, must be correctly determined and specified. Each set of probes is made to order and cannot be returned for credit if the dimensions are incorrectly specified.

If the fan inlet depth specified is 3.5" (8.9 cm) or greater, each **KIP Series** probe will have both static (low) and total (high) pressure pickup bars. "Tee" the high pressure pickups together and the low pickups together. If the fan inlet depth is less than 3.5" (8.9 cm), one **KIP Series** probe will have a single static (low) pressure pickup barb, and the other probe will have a single total (high) pressure pickup barb.

Determining the differential (velocity) pressure for a **KIP Series** probe is the same as for a pitot tube or flow measuring station (see KMS Series catalog page for formulas). Since the **KIP Series** probe is mounted at a high velocity location, differential pressures are typically higher and may allow the use of a lower-price, higher-range differential pressure transmitter.

ORDERING INFORMATION

KIP-Y-X Y = Inlet diameter range 6.00" to 96.00" (15.24 to 243.84 cm)
 X = Inlet depth minimum 0.5" (1.27 cm)

Note: One **KIP** includes a pair of pickup probes for measuring airflow at a fan inlet.
 For dual inlet fans, two **KIPs** must be ordered.