KMS SERIES

DESCRIPTION

The **Kele KMS Series airflow measuring stations** has or uses multiple averaging sensors for static pressure measurements and a bullet-nose probe for total pressure. The sensors are distributed across the flow stream to conform to the industry standard rules for equal-area averaging (the standard pitot traverse). The standard unit includes a 16-gauge galvanized casing with flanged duct connection, 3/8" hexagon-celled aluminum flow straightening vanes, and internal copper sensors constructed to ASTM B88. Instrument connections are 1/2" FNPT. Other configurations are available on request.

AIRFLOW MEASURING STATION

APPLICATION

When utilized with a differential pressure transmitter, the **KMS Series** provides an accurate, repeatable airflow signal for building automation and HVAC applications. Air velocity may be determined by the formula: Velocity (fpm) = $4004\sqrt{\Delta}P$, where ΔP is differential pressure in "W.C. Then, flow rate may be determined by the formula: CFM = AV, where A is the effective area of the flow measuring station in square feet, and V is the velocity obtained above. The proper range for a differential pressure transmitter to use with the **KMS Series** airflow measuring station may be determined by the formula: $\Delta P = (\text{Max Velocity}/4004)^2$.



SPECIFICATIONS

Accuracy ±2% within design flow range 1/2" FNPT HI/LO pressure pickups, factory-mounted on the long

side dimension when station is

rectangular

Minimum Velocity
Maximum Velocity
Mounting
Media Compatibility

1000 fpm (305 mpm)
6000 fpm (1830 mpm)
Duct flanges standard
Clean HVAC duct air

Media Temperature Range

400°F (204°C) maximum

Maximum Pressure
6" W.C. maximum duct static

Pressure Drop <0.13" W.C. @ 2000 fpm

Materials of Construction
Casing 16-gauge galvanized sheet steel;

Casing Pickup Sensors

Internal Fittings Straightening Vanes Dimensions

Warranty

rigid copper (hard drawn to ANSI H23.1 and ASTM B88 standards); copper (ANSI B-16.22); 3/8" aluminum hexagon cell Casing depth 12" (30.5 cm); H x W dimensions made-to-order

1 year

ORDERING INFORMATION

MODEL	DESCRIPTION		
KMS	Airflo	w measuring station	
	SHAF	E	
	811	Round with flanges	
	911	Rectangular with flanges	
		DIMENSIONS	
		W x H Diameter or width x height (inches)	

KMS | - 911 - 48 x 24 | Example: KMS-911-48 x 24 Rectangular airflow station with 16-gauge galvanized casing, 3/8" straightening vanes, and copper probes 48" wide x 24" high

Note: Standard location for flow connections is on the "long" dimensions side of a rectangular station. Stations can be rotated. If connections must be located on the "short" side, specify it on the order; a cost adder applies.

ACCESSORIES

KMS-PAK-B 1/2" FNPT to 1/4" OD tubing barb fitting