



AMPLIFLOW AIR VELOCITY SENSOR AMP SERIES



DESCRIPTION

The **Kele AMP Series ampliflow air velocity sensor** measures air flow velocity in HVAC duct systems using differential pressure. The design of the **AMP Series** amplifies the velocity pressure by a factor of three, which, improves accuracy or resolution for lower air flow velocities. Sensing holes along the length of the tube yield an average velocity pressure reading for greater accuracy. The simple design of the **AMP Series** allows quick, easy installation in new or existing ductwork.

FEATURES

- *Multipoint readings for average velocity pressure*
- *Simple installation*
- *Rugged, extruded aluminum construction*
- *Sensor is capped for field calibration*
- *Three-to-one ratio pressure signals*
- *Adaptable to round, square, or oval ducts*
- *1/4" barbs for 3/8" OD tubing*
- *One year warranty*



AMP-18

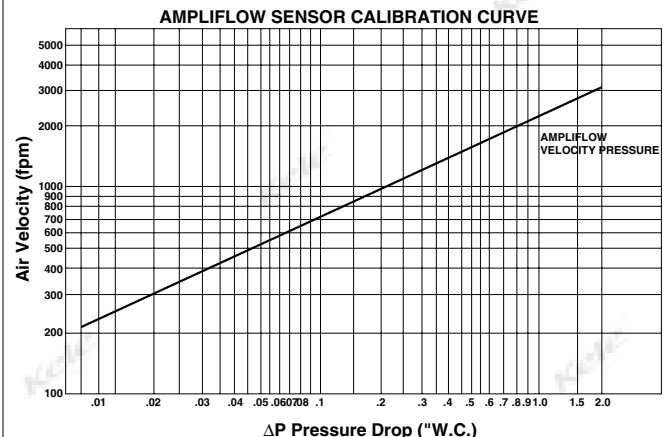
SPECIFICATIONS

Installation	1/4" Brass Barb for 3/8" OD tubing
Dimensions	Flange 2" x 2"
Material	Extruded Aluminum with brass fittings
Weight	0.02 lbs per inch
Warranty	1 year

INSTALLATION

Mount the **AMP Series** at least three (10 is ideal) duct diameters downstream of coils, dampers, or elbows, and through the width of the duct for best results. Cut a hole 0.75"H x 0.88"W (1.9 x 2.3 cm) in the duct. Drill holes in the opposite side of the duct to allow the field pressure taps to protrude through the duct. Remove the rubber caps from the field pressure taps and insert the **AMP Series** into the duct so that the field pressure taps protrude. Attach the **AMP Series** to the duct with sheet metal screws and replace the rubber caps on the field pressure taps.

PERFORMANCE



$$\text{Velocity (fpm)} = 2213 \sqrt{\Delta P}$$

$$\text{Velocity (mps)} = 11.242 \sqrt{\Delta P}$$

ORDERING INFORMATION

MODEL	DESCRIPTION
AMP	Ampliflow air velocity sensor w/ 3/8" OD tubing barbs
	WIDTH
XX	Duct width (up to 30")*

Note: The ampliflow will be constructed so that the field pressure taps in the end of the sensing tube protrude through the duct.

* Lengths 30" to 96" available by special order.
Provide field-constructed support for sensors >30".

Nailor Ind. U.S. Patent No. 4,735,100

RELATED PRODUCTS

CX, RX, XLdp Series	Ashcroft differential pressure transmitters
M264 Series	Setra differential pressure transmitter
T-110	3/8" OD black poly tubing, 1 coil, 250 ft (76 m)