



# FLOW

## DIFFERENTIAL PRESSURE FLOW SENSORS SSS-1000 SERIES

### DESCRIPTION

The KMC Controls SSS-1000 Series airflow sensors sense differential pressure of VAV units and other locations in main or branch ducts, for velocity calculations. Four different lengths allow selection of the sensor to yield accurate readings on terminal box inlet diameters from 4" to 16" (10.2 to 40.6 cm).

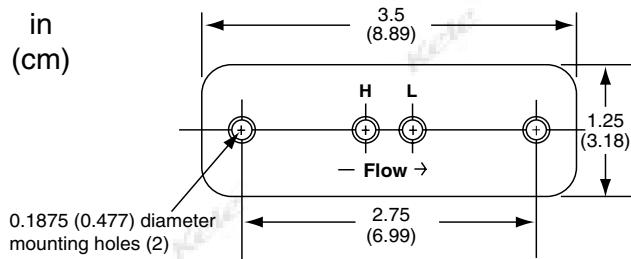
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### SPECIFICATIONS

<b>Connections</b>	1/4" (6.4 mm) OD connections, fit 3/8" (9.5 mm) OD polyethylene tubing
<b>Operating Temperature</b>	40°F to 120°F (4°C to 49°C)
<b>Mounting Length</b>	Integral flange with foam gasket
SSS-1002	3.16" (8.0 cm) insertion (one sensing point)
SSS-1003	5.41" (13.7 cm) insertion (two sensing points)
SSS-1004	7.66" (19.4 cm) insertion (three sensing points)
SSS-1005	9.91" (25.2 cm) insertion (four sensing points)
<b>Material</b>	ABS/Polycarbonate, (UL 94-5V)
<b>Weight</b>	
SSS-1002	0.04 lb (0.02 kg)
SSS-1003	0.05 lb (0.02 kg)
SSS-1004	0.06 lb (0.03 kg)
SSS-1005	0.07 lb (0.03 kg)
<b>Approvals</b>	RoHS
<b>Warranty</b>	2 years

FLOW

### DIMENSIONS



### INSTALLATION

The SSS-1000 Series sensor requires a 7/8" (2.22 cm) diameter cutout for the insertion portion and two pilot holes for sheet metal screws or rivets to hold the flange against the ductwork. Sensors should be installed as level as possible to ensure accurate velocity pressure readings. Connect Hi & Low ports with 3/8" poly tubing to a separately purchased differential pressure transmitter (DPT).

### ORDERING INFORMATION

Model	Description
SSS-1002	Differential pressure flow sensor, 3.16" insertion
SSS-1003	Differential pressure flow sensor, 5.41" insertion
SSS-1004	Differential pressure flow sensor, 7.66" insertion
SSS-1005	Differential pressure flow sensor, 9.91" insertion

B-265

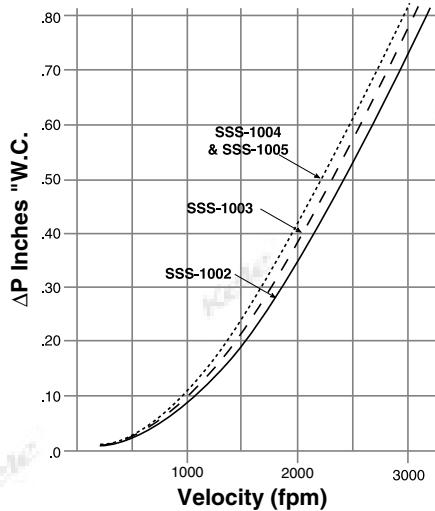
Barb coupling, 3/8" OD tubing to 1/4" OD tubing

### RELATED PRODUCTS

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



### PERFORMANCE



$$\begin{aligned} \text{SSS-1002} \quad \text{Velocity} &= 3450\sqrt{\Delta P} \\ \text{SSS-1003} \quad \text{Velocity} &= 3300\sqrt{\Delta P} \\ \text{SSS-1004} \quad \text{Velocity} &= 3200\sqrt{\Delta P} \\ \text{SSS-1005} \quad \text{Velocity} &= 3200\sqrt{\Delta P} \end{aligned}$$