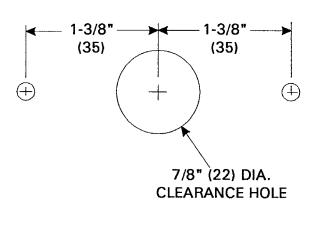


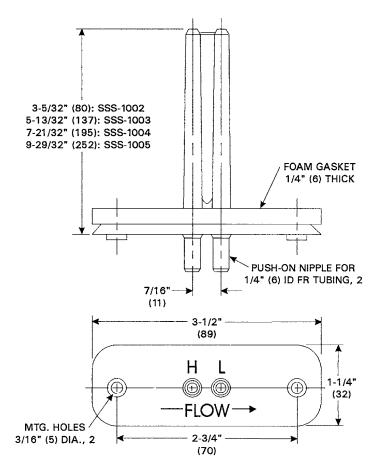
SSS-1000 Series

Installation Guide

Mounting

- 1. Determine the duct's flow direction and install the SSS-1000 based on the unit's flow arrow imprint.
- NOTE: The sensor must be mounted with the arrow pointing in the direction of the air flow.
- 2. Cut a 7/8" hole in the duct to accept the unit.
- 3. Attach using two self-tapping screws inserted in the 3/16" mounting holes.





Connections

Connections use 3/8" OD polyethylene tubing. Check that there are **no sharp bends** in the tubing at any connection. Bends and creases may leak as tubing ages.

- 1. Connect the Port "H" to the "High" input on the VAV controller.
- 2. Connect the Port "L" to the "Low" input on the VAV controller.
- NOTE: With CSC-3000 series, CSP-4000/5000 series, KMD-7000 series, and BAC-7000 series controllers, use a 3/8" to 1/4" barb union adapter and appropriate polyethylene tubing to the sensor and controller. For maximum accuracy in the CSP-5000 series, KMD-7000 series, and BAC-7000 series controllers, the 3/8" OD tubing between the sensor and the adapter should be as short as possible, and the 1/4" OD tubing from the adapter to the controller should be 24" long (on both the High and the Low sides).

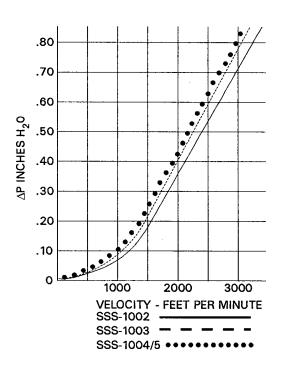
Specifications

Material	Light gray ABS/polycarbonate (UL94-5V)
Mounting	Integral flange with gasket
Connection	1/4" (6 mm) nipple for 3/8" (10 mm) OD polyethylene tubing
Tomporaturo Limite	

Temperature Limits

Operating	40 to 120° F (4 to 49° C)
Shipping	–40 to 140° F (–40 to 60° C)

"Feet Per Minute" K Factors			
Sensor Model	К		
SSS-1002	3450		
SSS-1003	3300		
SSS-1004	3200		
SSS-1005	3200		



Formulas for CSC-2000, CSC-3000, and CSP-4000 Series					
For Flow		For Volume			
$\Delta \mathbf{P} = (\mathbf{FPM/K})^2$	$FPM = K \times SQRT(\Delta P)$	$\Delta \mathbf{P} = \left(\frac{\mathbf{CFM}}{\mathbf{K} \mathbf{x} \mathbf{Area}}\right)^2$	CFM = K x SQRT(∆P) x Area		
Feet Per Minute in a VAV box equals the (relevant model's) K factor times the square root of the differential pressure (in "wc").		Cubic Feet per Minute in a VAV box equals the relevant sensor model's K factor times the square root of the differential pressure (in "wc") times the cross-section area (in square feet).			

NOTE: These formulas are for CSC-2000 series, CSC-3000 series, and C**S**P-4000 series controllers with built-in "differential pressure" sensors. C**E**P-4000, CSP-5000, KMD-7000, and BAC-7000 operate differently—see their respective installation guides and application guides for more information.

NOTE: CFM (cubic feet per minute) = FPM (feet per minute) times the duct cross-section area (in square feet).

Important Notices

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Maintenance

Sensing orifices must be kept free of dust accumulation or debris. The sensors are designed for dependable, long-term reliability and performance.

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