



# DIFFERENTIAL PRESSURE FLOW SENSOR

## DPFS SERIES

### DESCRIPTION

The **DPFS Series** Differential Pressure Flow Sensor is the most economical way to sense airflow velocity in VAV ducts, and other small size branch ducts in HVAC systems. The **DPFS Series** is available in 4 different lengths for flow sensing in duct sizes from 4" to 18" (10 to 46 cm) and can reliably sense velocities above 1000 FPM (feet/minute) or 305 MPM (meters/minute).

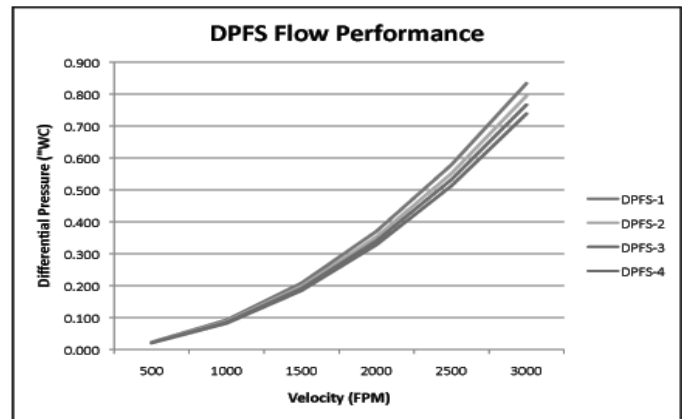


### INSTALLATION

Select the appropriate **DPFS model** to fit the duct size; the flow sensor length needs to be at least half the duct width in order to get a good reading of the velocity pressure. The **DPFS-1** is for 4" to 6" ducts; the **DPFS-2** is for 6" to 8" ducts; the **DPFS-3** is for 8" to 10" ducts and the **DPFS-4** is for 10" to 18" ducts. Mounting the **DPFS Series** sensor requires a 7/8" (2.2 cm) hole in the duct, through which the probe insert.

The **DPFS** requires 10 straight duct diameters upstream and downstream for accurate readings. The sensor must be mounted with the flow direction arrow accurately pointing in the direction of the airflow. To ensure reliable performance, the sensor pickup openings must be kept free of dirt and dust accumulation.

Using 1/4" OD poly tubing, connect the **DPFS** "H" port to a differential pressure gauge or transmitter "High" input port, and the "L" port to the gauge or transmitter's "Low" input port



SPECIFICATIONS			
Connections	3/16" (0.48 cm) OD connections for 1/4" (0.64 cm) OD poly tubing	Weight	
Operating Temperature	40° to 120°F (4° to 49°C)	DPFS-1	0.64 oz (18.1 g)
Mounting Flange	4" x 2" flange with integral foam gasket and two 3/16" holes spaced 3.3" (8.4 cm) center-to-center	DPFS-2	0.96 oz (27.2 g)
Materials Of Construction	ABS	DPFS-3	1.1 oz (31.8 g)
Dimensions		DPFS-4	1.3 oz (36.3 g)
		Warranty	2 years
DPFS-1	4.0"W x 2.1"H x 3.6"L (10.2 x 5.3 x 9.1 cm)		
DPFS-2	4.0"W x 2.1"H x 6.0"L (10.2 x 5.3 x 15.2 cm)		
DPFS-3	4.0"W x 2.1"H x 8.3"L (10.2 x 5.3 x 21.1 cm)		
DPFS-4	4.0"W x 2.1"H x 10.6"L (10.2 x 5.3 x 26.9 cm)		

ORDERING INFORMATION	
<b>MODEL</b>	<b>DESCRIPTION</b>
DPFS-1	Differential pressure flow sensor, 3.0" insertion, for 4" to 6" ducts
DPFS-2	Differential pressure flow sensor, 5.2" insertion, for 6" to 8" ducts
DPFS-3	Differential pressure flow sensor, 7.5" insertion, for 8" to 10" ducts
DPFS-4	Differential pressure flow sensor, 9.7" insertion, for 10" to 18" ducts
DPFS-1-10PAK	Differential pressure flow sensor, 3.0" insertion, for 4" to 6" ducts, 10 pack
DPFS-2-10PAK	Differential pressure flow sensor, 5.2" insertion, for 6" to 8" ducts, 10 pack
DPFS-3-10PAK	Differential pressure flow sensor, 7.5" insertion, for 8" to 10" ducts, 10 pack
DPFS-4-10PAK	Differential pressure flow sensor, 9.7" insertion, for 10" to 18" ducts, 10 pack
<b>RELATED PRODUCTS</b>	
M264 Series	Setra differential pressure transmitter
CX, RX, XLdp Series	Ashcroft differential pressure transmitters
T-101	1/4" OD black poly tubing, 1 coil, 250 ft (76 m)