

Precision Flow Air Velocity Transmitters directly monitor gas mass flow rates of free air flows or single point flows in pipes, ducts and stacks. The 4 to 20 mA output signal is linearly proportional to gas mass velocity without additional compensation needed for pressure and temperature variations. The 304 SS insertion probe contains a velocity sensor to monitor mass flow and a temperature sensor to automatically correct for temperature changes. The probe is directly mounted to a NEMA 2 anodized aluminum enclosure. Stocked models are calibrated for air.

POPULAR MODELS

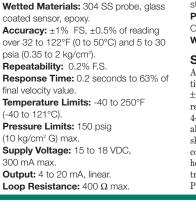
Model Number	Range	
PF1300202	0 to 2000 SFPM	
PF1300204	0 to 4000 SFPM	
PF1300206	0 to 6000 SFPM	

APPLICATIONS

Heating, ventilation and air conditioning (HVAC); hood and gas cabinet monitoring; cleanroom and cleanbench face velocity monitoring.

Series

PFS



Service: Air, nitrogen, or non-corrosive,

non-combustable gases.

Operating Temperature: 32 to 122°F (0 to 50°C). Electrical Connection: Four wire standard connector. Probe Dimensions: ¼" (6.35 mm) O.D., 13" (33 cm) length. Weight: 0.7 lbs. (0.30 kg).

Suggested Specifications:

Air velocity transmitter shall be an insertion type mass flow meter with accuracy of ±1% FS, +0.5% of reading and a 0.2 second response time. Transmitter shall provide a 4-20 mA output signal linearly proportional to gas mass velocity. Insertion probe shall be constructed of 304 SS with a glass coated sensor assembly. Electronics shall be housed in a NEMA 2 enclosure. Air velocity transmitter shall be Dwyer Model No. PF

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Smart Air Velocity Transmitter Field Rangeable, 0.1 Second Response, ±0.2% Repeatability



Series PFS Smart Air Velocity Transmitter measures mass flow rate of air, nitrogen, or other non-combustable gases and delivers a linear 4 to 20 mA output signal. The smart electronics permit field configuration of flow range and full validation of calibration. Compensate for flow profile variations or specific application conditions with the K-Factor correction feature. Series PFS include user-adjustable high and low alarm outputs and adjustable time response to track flow fluctuations. View flow rate on units with built-in display. All parameters can be quickly programmed via three push buttons or RS-232 and the Windows[™] 95 based software (sold separately).

POPULAR MODELS

Model Number	Range	Display
PFS1300204	0 to 4000 SFPM	No
PFS1300210	0 to 10,000 SFPM	No
PFS1300215	0 to 15,000 SFPM	No
PFS13002041	0 to 4000 SFPM	Yes
PFS13002101	0 to 10,000 SFPM	Yes
PFS13002151	0 to 15,000 SFPM	Yes

SPECIFICATIONS

Service: Air, nitrogen, or non-corrosive, non-combustable gases.

Wetted Materials: 304 SS probe, glass filled polyester sensor, epoxy, and ceramic. Accuracy: ±1% FS.

Repeatability: ±0.2% full scale. Response Time: 0.1 seconds to 63% of

final velocity value. **Temperature Limits:** -40 to 250°F

(-40 to 120°C). Pressure Limits: 150 psig (10 bar) max.

Supply Voltage: 18 to 30 VDC, 625 mA max.

Output: 4 to 20 mA linear, optical/galvanic isolated; proportional to point mass flow rate or velocity. **Loop Resistance:** 700Ω max. Relay Rating: Maximum 42 VAC/VDC, 140 mA. Flow Range Adjustment: 50 to 100%

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Time Response: Adjustable 1s to 7s. Electrical Connection: ½" female

NPT. Correction Factor Setting: 0.5 to 2.

Housing: NEMA 4X (IP65) powder-coated cast aluminum.

Mounting: %" tube compression fitting (not included).

Computer Requirements: IBM compatible 386 or above and Windows™ 95 or later with minimum 8 mB RAM (16 mB preferred) and one serial port. Weight: 0.7 lbs (0.30 kg).

Accessories

No. PFS60 Windows™ Software and Connecting Cable