

**General**

AFSPT is used for monitoring non aggressive air in the air ducts. The upper assembly including microswitch is isolated using bellows assembly.



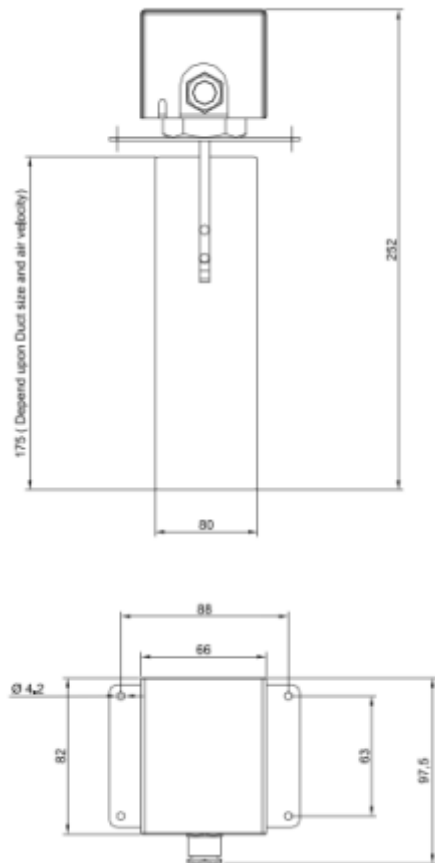
**Technical Specifications**

- Max System Pressure : 150 Psig
- Temperature range : -20 to 85°C
- Sensor Specifications : Microswitch with changeover contact (SPDT or DPDT)
- Contact Rating : Please see the ordering information
- Sealing Type : Bellows sealed / magnetic coupled
- Max. Air Velocity : 5000 FPM

**Switching Flow Rates**

- Switching – OFF Min. 195 fpm Max. 1575 fpm
  - Switching – ON Min. 935 fpm Max. 1810 fpm
- For the conversion chart please see the page 2.

**Dimensions**



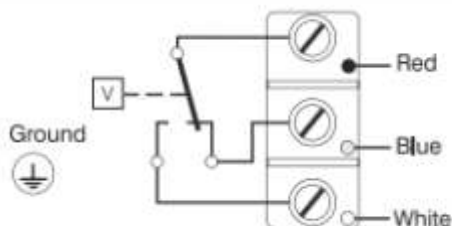
**Typical Applications**

- Clean Room Filter Systems
- Duct Type Heating
- Exhaust Vantilatin
- Air Supply System
- Air Treatment Systems

**Installation instructions**

The Flow switch may be installed in every position duly oriented on stream. If pipe is vertical, reset range to balance vane (paddle) weight. Put the provided gasket on the device fixing base to pipe. The flow switch is factory calibrated to the minimum switch off value. The required value can be set by turning the adjustment screw to the relative direction (for detailed description please refer the installation manual). Due to the risk of fracture at air speeds higher than 5 m/s, the vane must be cut off on the side where marked. As a result of this the minimum switch off value will increase. Steadying zones must be provided 5 times the diameter of the duct before and after the location of installation.

**Electrical Installation**



Red: Common  
 Blue: Normally Open  
 White: Normally Closed

Connect the red - white contacts these contact will close when value exceeds the set value.

## Ordering Information

Example :AFSPT- FBA1

Order Code Example **AFSPT- F B A1**

### Enclosure / Protection

- WFSPT- General Purpose
- WP-FSPT- Weatherproof to IP 65 / 67
- EP-FSPT- Explosion proof to group IIA / IIB
- GFP-FSPT- Flameproof to group IIC

**AFSPT**

## Important while ordering

For placing order please fulfill following requirement.

- System Pressure
- Desired Flow Rate
- Fluid Temperature
- Fluid Characteristics

### Process Connection

- 25 – Threaded to 1” BSPT – Male
- 25N – Threaded to 1” NPT – Male
- AF – MS square Flange - Default

**F**

### M.O.C of wetted parts

- B1 – Brass Body, SS 304 Bellows, SS 316 Paddle
- B2 - Brass Body, Ph. Bronze Bellows, SS 316 Paddle
- S1– SS 304 body, SS 304 Bellows, SS 316 Paddle
- S2– SS 316 body, SS 316 Bellows, SS 316 Paddle

**S2**

### Switch Rating

- A1 –15A 250V AC, Snap acting instrument quality SPDT Microswitch
- B1 - 3A 250V AC, Snap acting instrument quality SPDT Microswitch
- C1 - 5A 250V AC, Snap acting instrument quality SPDT Microswitch
- C2 –5A 250 V AC, snap acting Instrument quality 2 SPDT Microswitch.

**A1**

## Air Velocity Unit Conversions

- Cubic Feet Per Minute ( CFM) = CFM / Duct Area
- CFM = DUCT AREA X FMP
- FMP =
- ONE SQUARE FEET = (12” X 12” = 14S sq. In.)

	LPS(l/Sec)	LPM(l/min)	CMH(m3/hr)	CFM(ft3/min)	CFH(FT3/HR)	GPM (gal/min)
1 LPS (l/sec)	1	60	3.6	2.119	127.1	15.85
1 LPM (l/min)	0.01667	1	0.16	0.03532	2.119	0.12642
1 CMH (m3/hr)	0.2778	16.67	1	0.589	35.32	4.403
1 CFM (ft3/min)	0.472	28.32	1.7	1	60	7.48
1 CFH (ft3/hr)	$7.87 \times 10^3$	0.472	0.02832	0.01667	1	0.1247
1 GPM (gal/min)	0.0631	3.785	0.2271	0.1337	8.021	1

Continuous efforts for product development may necessitate changes in these details without notice

### Authorised Dealer



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