AFS-222

DIFFERENTIAL AIR PRESSURE SWITCH

APPLICATION

The AFS - 222 is a general purpose differential air pressure switch that can be used to sense positive, negative or differential air pressure. It can be used to prove air flow or blocked filters. The switch is supplied with one 150mm piece 1/4" O.D. flexible tubing .

DESCRIPTION AND OPERATION

The AFS - 222 housing contains a diaphragm, a calibration spring and a snap acting SPDT switch. The sample connections located on each side of the diaphragm accept ¼" OD tubing via the compression ferrule and nut. The enclosure cover protects against accidental contact with the live switch terminals and the setpoint adjusting screw. The enclosure cover will accept a 20mm conduit connection.

TECHNICAL DATA

ITEM	DESCRIPTION
Part Number	AFS - 222
Setpoint	12 Pa – 3000 Pa
Differential	5 Pa at min. setpoint to 200 Pa at max. setpoint
Maximum Pressure	3500 Pa
Switch Voltage	240 Vac Maximum
Switch Current	10 Amp resistive or 300 VA
Switch Function	Single Pole , Double Throw
Temperature Range	-40°C to + 85°C
Sample Connections	¼" O.D. Tubing

MOUNTING DETAILS / INSTALLATION

It is recommended that the air pressure switch be mounted with the diaphragm in the vertical plane. Select a mounting position that is vibration free. Avoid mounting with the sample line connections in the "UP" position.

For proving air flow , the positive port should be connected to the supply side of the fan. If the static is low , the negative port should be piped to the fan suction as well.

For detecting a blocked filter , the positive port should be connected to the upstream side and the negative port to the downstream side .

DIMENSIONS