

Model AFS-222

Air Pressure Sensing Switch with Adjustable Set Point Range

Application

The **Model AFS-222** is a general purpose proving switch designed for HVAC and Energy Management applications. It may be used to sense positive, negative, or differential air pressure.

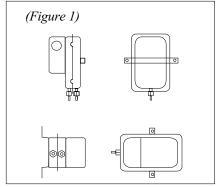
General Description & Operation

The plated housing contains a diaphragm, a calibration spring and a snap-acting SPDT switch. The sample connections located on each side of the diaphragm accept ½" OD metallic tubing via the integral compression ferrule and nut.

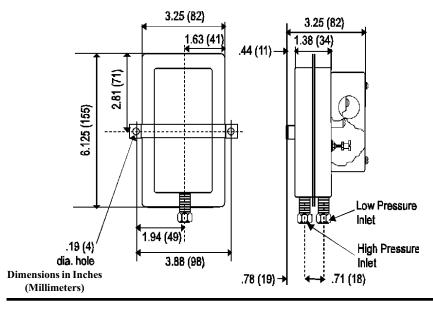
An enclosure cover guards against accidental contact with the live switch terminal screws and the set point adjusting screw. The enclosure cover will accept a ½" conduit connection.

Mounting (see Figure 1)

Select a mounting location which is free from vibration. The AFS-222



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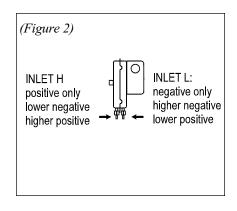


must be mounted with the diaphragm in any vertical plane in order to obtain the lowest specified operating set point. Avoid mounting with the sample line connections in the "up" position. Surface mount via the two ³/16" diameter holes in the integral mounting bracket. The mounting holes are 3-7%" apart.

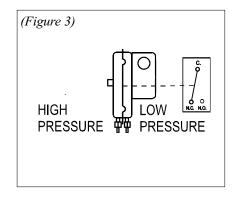
Air Sampling Connection (see Figure 2)

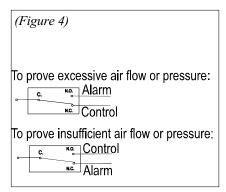
The AFS-222 is designed to accept firm-wall sample lines of ¼" OD tubing by means of ferrule and nut compression connections. For sample lines of up to 10 feet, ¼" OD tubing is acceptable. For lines up to 20 feet, use ¼" ID tubing. For lines up to 60 feet, use ½" ID tubing. A ¼" OD adapter, suitable for slip-on flexible tubing is available: order part number 18311.Locate the sampling probe

a minimum of 1.5 duct diameters downstream from the air source. Install the sampling probe as close to the center of the airstream as possible. Refer to Figure 2 to identify the high pressure inlet (H) and the low pressure inlet (L). Select one of the five application options listed below (on page 2), and connect the sample lines as recommended.



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POSITIVE PRESSURE ONLY:

Connect the sample line to inlet H; inlet L remains open to the atmosphere.

NEGATIVE PRESSURE ONLY:

Connect the sample line to inlet L; inlet H remains open to the atmosphere.

TWO NEGATIVE SAMPLES:

Connect the higher negative sample to inlet L. Connect the lower negative sample to inlet H.

TWO POSITIVE SAMPLES: Connect the higher positive sample to inlet H. Connect the lower positive sample to inlet L.

ONE POSITIVE AND ONE NEGATIVE SAMPLE: Connect the positive sample to inlet H. Connect the negative sample to inlet L.

Electrical Connections (see Figure 3)

Before pressure is applied to the diaphragm, the switch contacts will be in the normally closed (NC) position. The snap switch has screw top terminals with cup washers. Wire alarm and control applications as shown in Figure 4.

Field Adjustment

The adjustment range of an AFS-222 Air Switch is $0.05 \pm .02$ " w.c. to 12.0" w.c.. To adjust the set point, t urn the adjusting screw counterclockwise until motion has stopped. Next, turn the adjusting screw 4 complete turns in a clockwise direction to engage the spring. From this point, the next ten turns will be used for the actual calibration. Each full turn represents approximately 1.2" w.c.

Please note: To properly calibrate an air switch, a digital manometer or other measuring device should be used to confirm the actual set point.

Specifications

Model AFS-222 Air Flow Switch

Mounting Position: Mount with the diaphragm in any vertical plane. **Set Point Range:** 0.05 ± 0.02 " w.c. to

12.0"w.c.

Field Adjustable "Operate Range":

0.07"w.c. to 12.0" w.c.

Field Adjustable "Release Range": 0.04"w.c. to 11.2" w.c.

Approximate Switching Differential: Progressive, increasing from 0.02± 0.01 "w.c. at minimum set point to approximately 0.8" w.c. at maximum set point.

Measured Media: Air, or combustion by-products that will not degrade silicon.

Maximum Pressure: ½ psi (0.03 bar)

Operating Temperature Range: -40F to 180F (-40 to 82C)

Life: 100,000 cycles minimum at 1/2 psi maximum pressure each cycle and at maximum rated electrical load.

Electrical Rating:

300 VA pilot duty at 115 to 277 VAC, 15 amps noninductive to 277 VAC, 60 Hz.

Contact Arrangement: SPDT Electrical Connections: Screw-type terminals with cup washers.

Conduit Opening: 7/8" diameter opening accepts ½" conduit.

Sample Line Connectors: Male, externally threaded ⁷/16" 24 UNS 2A thread, complete with nuts and selfaligning ferrules.

Sample Line Connections: Connectors will accept 1/4" OD rigid or semi-rigid tubing.

Approval: UL, FM, CSA Shipping Weight: 1.2 lbs.

Accessories

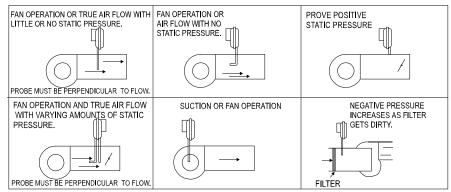
• **P/N 18311** Slip-on ¼" OD Tubing Adapter, suitable for slipping on flexible plastic tubing. • Sample line probes. • Orifice plugs (pulsation dampers).

Pressure Conversion Table

1" H₂O = 0.0361 lbs./sq. in. or 0.0735 in. mercury 1" Hg. = 0.491 lbs./sq. in. or 13.6 in. water 1 psi = 27.7 in. water or 2.036 in. mercury

AFS-222 Sensing Switches are manufactured by Cleveland Controls Div. of UniControl Inc

Location of Sample Lines for Typical Applications





Model AFS-262

Air Pressure Sensing Switch with Adjustable Set Point Range

Application

The **Model AFS-262** is a general purpose proving switch designed for HVAC and Energy Management applications. It may be used to sense positive, negative, or differential air pressure.

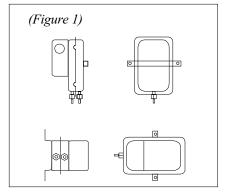
General Description & Operation

The plated housing contains a diaphragm, a calibration spring and a snap-acting SPDT switch. The sample connections located on each side of the diaphragm accept ½" OD metallic tubing via the integral compression ferrule and nut.

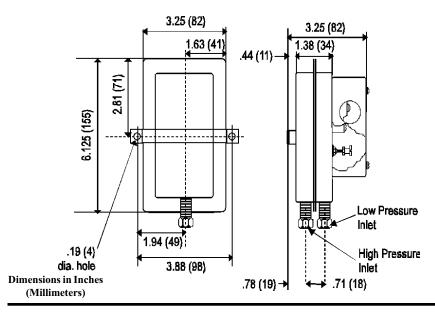
An enclosure cover guards against accidental contact with the live switch terminal screws and the set point adjusting screw. The enclosure cover will accept a ½" conduit connection.

Mounting (see Figure 1)

Select a mounting location which is free from vibration. The AFS-262



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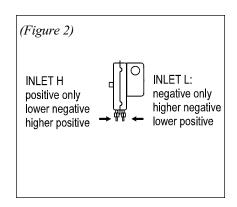


must be mounted with the diaphragm in any vertical plane in order to obtain the lowest specified operating set point. Avoid mounting with the sample line connections in the "up" position. Surface mount via the two ³/16" diameter holes in the integral mounting bracket. The mounting holes are 3-7%" apart.

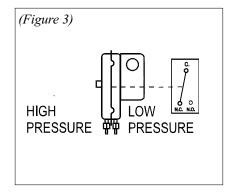
Air Sampling Connection (see Figure 2)

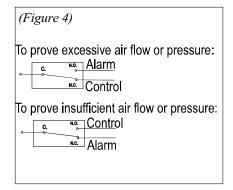
The AFS-262 is designed to accept firm-wall sample lines of ¼" OD tubing by means of ferrule and nut compression connections. For sample lines of up to 10 feet, ¼" OD tubing is acceptable. For lines up to 20 feet, use ¼" ID tubing. For lines up to 60 feet, use ½" ID tubing. A ¼" OD adapter, suitable for slip-on flexible tubing is available: order part number 18311.Locate the sampling probe

a minimum of 1.5 duct diameters downstream from the air source. Install the sampling probe as close to the center of the airstream as possible. Refer to Figure 2 to identify the high pressure inlet (H) and the low pressure inlet (L). Select one of the five application options listed below (on page 2), and connect the sample lines as recommended.



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POSITIVE PRESSURE ONLY:

Connect the sample line to inlet H; inlet L remains open to the atmosphere.

NEGATIVE PRESSURE ONLY:

Connect the sample line to inlet L; inlet H remains open to the atmosphere.

TWO NEGATIVE SAMPLES:

Connect the higher negative sample to inlet L. Connect the lower negative sample to inlet H.

TWO POSITIVE SAMPLES: Connect the higher positive sample to inlet H. Connect the lower positive sample to inlet L.

ONE POSITIVE AND ONE NEGATIVE SAMPLE: Connect the positive sample to inlet H. Connect the negative sample to inlet L.

Electrical Connections (see Figure 3)

Before pressure is applied to the diaphragm, the switch contacts will be in the normally closed (NC) position. The snap switch has screw top terminals with cup washers. Wire alarm and control applications as shown in Figure 4.

Field Adjustment

The adjustment range of an AFS-262 Air Switch is $0.05 \pm .02$ " w.c. to 2.0" w.c.. To adjust the set point, t urn the adjusting screw counterclockwise until motion has stopped. Next, turn the adjusting screw 4 complete turns in a clockwise direction to engage the spring. From this point, the next ten turns will be used for the actual calibration. Each full turn represents approximately 0.2" w.c.

Please note: To properly calibrate an air switch, a digital manometer or other measuring device should be used to confirm the actual set point.

Specifications

Model AFS-262 Air Flow Switch

Mounting Position: Mount with the diaphragm in any vertical plane. Set Point Range: 0.05 ± 0.02" w.c. to

2.0"w.c.

Field Adjustable "Operate Range":

0.07"w.c. to 2.0" w.c.

Field Adjustable "Release Range":

0.04"w.c. to 1.9" w.c.

Approximate Switching Differential:

Progressive, increasing from 0.02± 0.01 "w.c. at minimum set point to approximately 0.1" w.c. at maximum set point.

Measured Media: Air, or combustion by-products that will not degrade silicone.

Maximum Pressure:

½ psi (0.03 bar)

Operating Temperature Range:

-40F to 180F (-40 to 82C)

Life: 100,000 cycles minimum at 1/2 psi maximum pressure each cycle and at maximum rated electrical load.

Electrical Rating:

300 VA pilot duty at 115 to 277 VAC, 15 amps noninductive to 277 VAC, 60 Hz.

Contact Arrangement: SPDT Electrical Connections: Screw-type terminals with cup washers.

Conduit Opening: 7/8" diameter opening accepts ½" conduit.

Sample Line Connectors: Male, externally threaded ⁷/16" 24 UNS 2A thread, complete with nuts and selfaligning ferrules.

Sample Line Connections: Connectors will accept ½" OD rigid or semi-rigid tubing.

Approval: UL, FM, CSA, CE **Shipping Weight:** 1.2 lbs.

Accessories

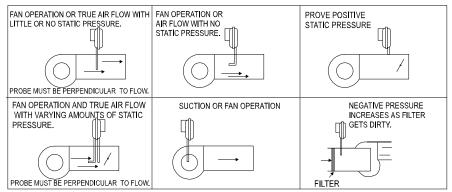
 P/N 18311 Slip-on ¼" OD Tubing Adapter, suitable for slipping on flexible plastic tubing.
 Sample line probes.
 Orifice plugs (pulsation dampers).

Pressure Conversion Table

1" ${\rm H_2O}$ = 0.0361 lbs./sq. in. or 0.0735 in. mercury 1" ${\rm Hg.}$ = 0.491 lbs./sq. in. or 13.6 in. water 1 psi = 27.7 in. water or 2.036 in. mercury

AFS-262 Sensing Switches are manufactured by Cleveland Controls Div. of UniControl Inc

Location of Sample Lines for Typical Applications





Cleveland Controls Division of UniControl Inc.

Model **AFS-460**

ADJUSTABLE SET POINT AIR PRESSURE SENSING SWITCH WITH MANUAL RESET

APPLICATION

The Model AFS-460 is a general purpose proving switch designed to require manual operator reset following actuation. It can be used to sense positive, negative, or differential air pressure in HVAC and Energy Management applications which require operator interface.

General Description & Operation

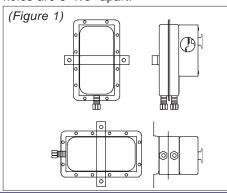
The plated housing contains a diaphragm, a calibration spring and a snap-acting SPST-NC switch with manual reset but-

The sample connections located on each side of the diaphragm accept 0.25" OD metallic tubing via the integral compression ferrule and nut.

An enclosure cover protects the operator from accidental contact with the live switch terminal screws and the set point adjusting screw. The enclosure cover accepts a 0.5" conduit connection.

MOUNTING (SEE FIGURE 1)

Select a mounting location which is free from vibration. The AFS-460 must be mounted with the diaphragm in any vertical plane in order to obtain the lowest specified operating set point. Avoid mounting with the sample line connections in the "up" position. Surface mount via the two 3/16" diameter holes in the integral mounting bracket. The mounting holes are 3-7/8" apart.





AIR SAMPLING CONNECTION (SEE FIGURE 2)

The AFS-460 is designed to accept firmwall sample lines of 1/4" OD tubing by means of ferrule and nut compression connections. An optional 1/4" adapter, suitable for slip-on flexible tubing is available: order part number 18311. For sample lines of up to 10 feet, 1/4" OD tubing is acceptable. For lines up to 20 feet, use 1/4" ID tubing.

For lines up to 60 feet, use 1/2" ID tubing. Locate the sampling probe a minimum of 1.5 duct diameters downstream from the air source. Install the sampling probe as close to the center of the airstream as possible. Refer to Figure 2 to identify the high pressure inlet (H) and the low pressure inlet (L). Select one of the five application options listed on page 2, and connect the sample lines as recommended.

POSITIVE PRESSURE ONLY: Connect the sample line to inlet H: inlet L remains open to the atmosphere.

NEGATIVE PRESSURE ONLY: Connect the sample line to inlet L; inlet H remains open to the atmosphere.

TWO NEGATIVE SAMPLES: Connect the higher negative sample to inlet L. Connect the lower negative sample to inlet

TWO POSITIVE SAMPLES: Connect the higher positive sample to inlet H. Connect the lower positive sample to inlet L.

ONE POSITIVE AND ONE NEGATIVE SAMPLE: Connect the positive sample to inlet H. Connect the negative sample to inlet L.



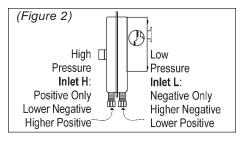
Cleveland Controls DIVISION OF UNICONTROL INC. 1111 Brookpark Rd Cleveland OH 44109

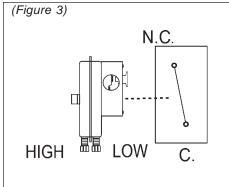
Tel: 216-398-0330 Fax: 216-398-8558

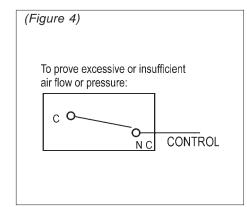
Email:saleshvac@unicontrolinc.com

Web page: http://www.clevelandcontrols.com

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ELECTRICAL CONNECTIONS

(SEE FIGURE 3)

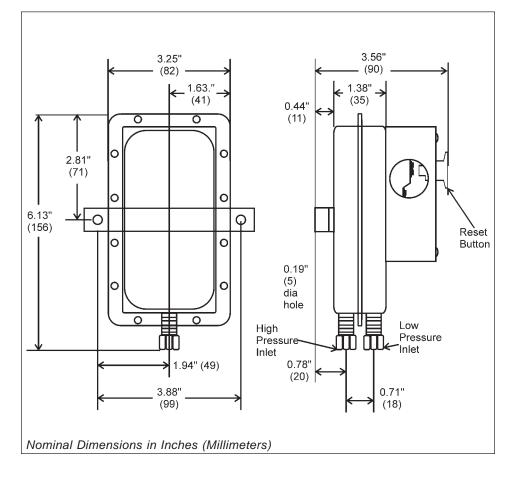
Before pressure is applied to the diaphragm, the switch contacts will be in the normally closed (NC) position.

The snap switch has screw top terminals with cup washers. Wire alarm and control applications as shown in Figure 4.

FIELD ADJUSTMENT

The adjustment range of an AFS-460 Air Switch is 0.4" ± 0.02" w.c. to 12.0" w.c. To adjust the set point, turn the adjusting screw counterclockwise until motion has stopped. Next, turn the adjusting screw four complete turns in a clockwise direction to engage the spring. From this point, the next ten turns will be used for the actual calibration. Each full turn represents approximately 1.16" w.c.

Please note: To properly calibrate an air switch, a digital manometer or other measuring device should be used to confirm the actual set point.



SPECIFICATIONS

MODEL AFS-460 AIR PRESSURE SENSING **SWITCH WITH MANUAL** RESET FEATURE

Mounting Position (in order to meet lowest operating specifications): Mount with the diaphragm in any vertical plane. Set Point Range:

 0.40 ± 0.06 "w.c. to 12.0"w.c.

Field Adjustable "Operate Range":

0.46"w.c. to 12.0" w.c.

Field Adjustable "Release Range": 0.46"w.c. to 11.2" w.c.

Approximate Switch Differential:

Progressive, increasing from approxi-

 0.06 ± 0.01 "w.c. at minimum set point, to approximately 0.8"w.c. at maximum set

Measured Media: Air, or combustion by-products that will not degrade silicone.

Maximum Pressure: ½ psi (0.03 bar) Life: Exceeds UL-recognized mechanical endurance test of 6,000 cycles minimum at 0.5 psi maximum pressure each cycle and at maximum electrical

Electrical Rating: @ 60 Hz. 15 amp 125, 250, or 277 VAC ¼ hp 125 V AC, ½Hp 250 VAC,

½ amp 125 V DC, 1/4 amp 250 V DC.

Contact Arrangement:

SPST-NC (manual reset).

Electrical Connections:

Screw top terminals with cup washers.

Conduit Opening: 7/8" diameter opening accepts 1/2" conduit. Sample Line Connectors: Male,

externally threaded 7/16" 24 UNS 2A thread, complete with nuts and selfaligning ferrules.

Sample Line Connections: Connectors will accept 1/4" OD rigid or semi-rigid

Approval and Recognition:

UL, CSA, CE. **Shipping Weight:**

1.2 lbs.

Accessories:

- P/N 18311 Slip-on 1/4" OD Tubing Adapter, suitable for slipping on flexible plastic tubing.
- · Sample line probes.
- · Orifice plugs (pulsation dampers).



Cleveland Controls Model Division of UniControl Inc. AFS-460-DSS

ADJUSTABLE SET POINT AIR PRESSURE SENSING SWITCH WITH DUAL MANUAL RESET

APPLICATION

The Model AFS-460-DSS is a general purpose airflow proving switch designed for 120 VAC HVAC and Energy Management applications where dual manual reset switches with SPST contacts are needed. It may be used to sense positive, negative, or differential air pressure.

GENERAL DESCRIPTION & OPERATION

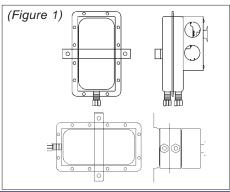
The plated housing contains a diaphragm, a calibration spring, and 2 snap-acting switches with a single manual reset but-

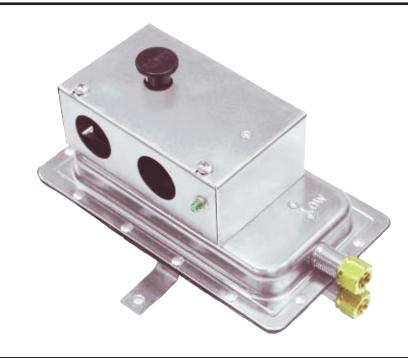
The sample connections located on each side of the diaphragm accept .25" (6.35 mm) OD tubing via the integral compression ferrule and nut.

An enclosure cover guards against accidental contact with the live switch terminal screws and the set point adjusting screw. The enclosure cover accepts two 0.5" (12.7 mm) conduit connections. The manual reset button is located on the top surface of the enclosure cover.

MOUNTING (SEE FIGURE 1)

Select a mounting location which is free from vibration. The AFS-460-DSS must be mounted with the diaphragm in any vertical plane in order to obtain the lowest specified operating set point. Avoid





mounting with the sample line connections in the "up" position. Surface mount via the two 3/16" (4.75 mm) diameter holes in the integral mounting bracket. The mounting holes are 3-7/8" (98.4 mm) apart.

AIR SAMPLING **CONNECTION** (SEE FIGURE 2)

The AFS-460-DSS is designed to accept firm-wall sample lines of 1/4" (6.35 mm) OD tubing by means of ferrule and nut compression connections. An optional 1/4" (6.35 mm) adapter, suitable for slip-on flexible tubing is available. For sample lines of up to 10 feet (3.05 metres), 1/4" (6.35 mm) OD tubing is acceptable. For lines up to 20 feet (6.1 metres), use 1/4" (6.35 mm) ID tubing. For lines up to 60 feet (18.3 metres), use 1/2" (12.7 mm) ID tubing. Locate the sampling probe a minimum of 1.5 duct diameters downstream from the air source. Install the sampling probe as close to the center of the airstream as possible. Refer to Figure 2 to identify the high pressure inlet (H), and the low pressure inlet (L). Select one of the five application options listed below, and connect the sample lines as recommended.POSITIVE PRESSURE ONLY: Connect the sample line to inlet H; inlet L remains open to the atmosphere.

Model

NEGATIVE PRESSURE ONLY: Connect the sample line to inlet L; inlet H remains open to the atmosphere.

TWO NEGATIVE SAMPLES: Connect the higher negative sample to inlet L. Connect the lower negative sample to inlet

TWO POSITIVE SAMPLES: Connect the higher positive sample to inlet H. Connect the lower positive sample to inlet L.

ONE POSITIVE AND ONE NEGATIVE SAMPLE: Connect the positive sample to inlet H. Connect the negative sample to inlet L.



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ELECTRICAL CONNECTIONS (SEE FIG. 3)

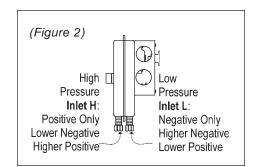
Before pressure is applied to the diaphragm, the snap switch contacts will be in the normally closed (NC) position as shown in **Fig. 3**.

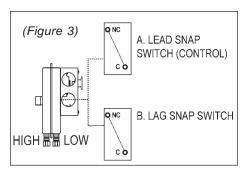
The snap switches have screw top terminals with cup washers. Wire alarm and control applications as shown in **Fig. 4**.

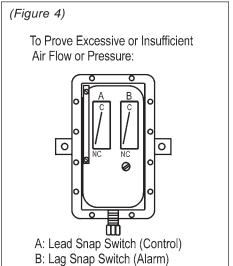
FIELD ADJUSTMENT: LEAD & LAG SNAP SWITCHES (SEE FIG. 4)

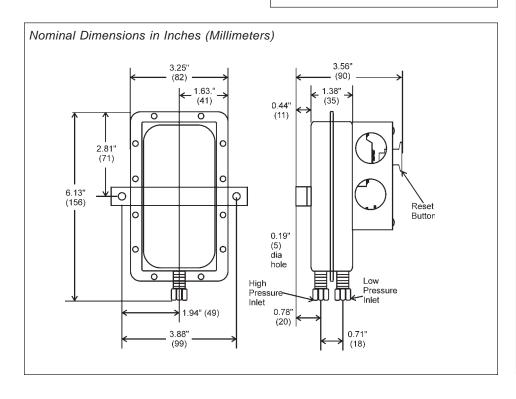
The AFS-460-DSS Manual Reset Air Switch has a lead snap switch adjustment of 1.25" w.c. to 12.0" w.c. (31.8 mm w.c. to 305 mm w.c.) The set point adjusting screw is used to adjust the set point of the lead snap switch (Switch A, in Fig. 4). The lag snap switch (Switch B, in Fig. 4) operates after the lead snap switch at progressively increasing set point increments as indicated in Table 1, below. Note: if simultaneous operation of Switch A and Switch B is required, use Model AFS-460-136 or AFS-460-137.

To adjust the set point of Switch A: Turn the adjusting screw counterclockwise until motion has stopped. Next, turn the adjusting screw four complete turns in a clockwise direction to engage the spring. From this point, the next ten turns will be used for the actual calibration. Each full turn represents approximately 1.0" w.c. (25.4 mm w.c.). Please note: To properly calibrate an air switch, a digital manometer or other measuring device should be used to confirm the actual set point.









SPECIFICATIONS

MODEL AFS-460-DSS AIR PRESSURE SENSING SWITCH WITH MANUAL RESET & DUAL

SPST-NC CONTACT ARRANGEMENT

Mounting Position (in order to meet lowest operating specifications): Mount with the diaphragm in any vertical plane.

Set Point Range:

1.25 \pm 0.06"w.c. to 12.0"w.c. (31.8mm ± 1.52 mm w.c. to 305 mm w.c.)

Field Adjustable "Operate Range": 1.31"w.c. to 12.0" w.c.

Field Adjustable "Release Range": 1.31"w.c. to 11.2" w.c.

Approximate Switch Differential: Progressive, increasing from approximately 0.06± 0.01"w.c. at minimum set point, to approximately 0.8"w.c. at maximum set point.

Measured Media: Air, or combustion by-

products that will not degrade silicone.

Maximum Pressure: ½ psi (0.03 bar;

3.45 kPa)

Life: Exceeds UL-recognized mechanical endurance test of 6,000 cycles minimum at 0.5 psi (0.03 bar, 3.45 kPa) maximum pressure each cycle and at maximum electrical load.

Electrical Rating: @ 60 Hz. 15 amp 125, 250, or 277 v AC ¼ hp 125 v AC, ½Hp 250 VAC, ½ amp 125 v DC, ¼ amp 250 v DC. 0.5 VA @ 24 v AC, 50/60 Hz.

Contact Arrangement:

2 SPST-NC (manual reset).

Electrical Connections:

Screw top terminals with cup washers.

Conduit Opening: 7/8" diameter opening

accepts ½" conduit.

Sample Line Connectors: Male, externally threaded 7/16" 24 UNS 2A thread, complete with nuts and self-aligning ferrules.

Sample Line Connections: Connectors will accept ¼" (6.35mm) OD rigid or semi-rigid tubing.

Approval and Recognition:

UL & CSA approved; CE pending.

Shipping Weight: 1.2 lbs.

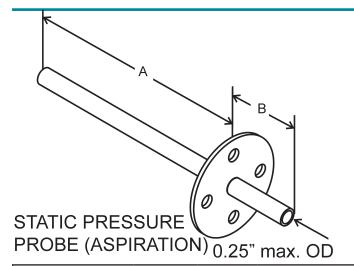
TABLE 1			
Lead Switch A	Lag Switch B		
Set Point	Set Point		
1.25" - 3.00" w.c.	up to 5% after		
(31.8 - 76.2 mm w.c.)	Switch A		
3.00" - 6.00" w.c.	up to 10% after		
(76.2 - 152.4 mm w.c.)	Switch A		
6.00" - 9.00" w.c.	up to 15% after		
(152.4 - 229 mm w.c.)	Switch A		
9.00 - 12.00" w.c.	up to 35% after		
(229 - 305 mm w.c.)	Switch A		



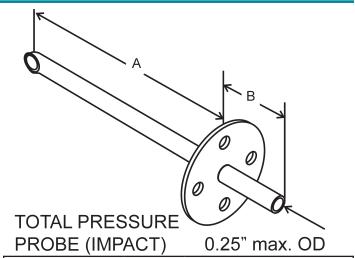
Cleveland Controls Division of UniControl Inc.

Sensing Probes

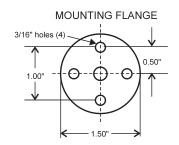
FOR AIR PRESSURE SENSING SWITCHES



Static Pressure (Aspiration) Probes					
Dimension A	Smooth OD Dimension B	Part Number	Barbed End Dimension B	Part Number	
1.5	1.0	21397	1.75	21397-112	
2.0	.5	21116	1.25	21116-112	
3.5	1.0	21398	1.75	21398-112	
4.0	.5	21117	1.25	21117-112	
5.5	1.0	21399	1.75	21399-112	
6.0	.5	21118	1.25	21118-112	
7.5	1.0	21400	1.75	21400-112	
8.0	.5	21119	1.25	21119-112	



Total Pressure (Impact) Probes					
Dimension A	Smooth OD Dimension B	Part Number	Barbed End Dimension B	Part Number	
1.5	1.0	21401	1.75	21401-112	
2.0	.5	21120	1.25	21120-112	
3.5	1.0	21402	1.75	21402-112	
4.0	.5	21121	1.25	21121-112	
5.5	1.0	21403	1.75	21403-112	
6.0	.5	21122	1.25	21122-112	
7.5	1.0	21404	1.75	21404-112	
8.0	.5	21123	1.25	21123-112	
10.0	.5	28527	1.25	28527-112	
12.0	.5	28528	1.25	28528-112	



FACTORY-INSTALLED BARBED ADAPTER FOR HOSE CONNECTION





Cleveland Controls DIVISION OF UNICONTROL INC.



RECOMMENDED PROBE LOCATIONS:

- 1. Position 5 to 8 diameters downstream from elbows, obstructions, or significant change in duct area.
- 2. Insert probe into duct perdendicular to airstream so that:
- Aspiration (static) probe tip opens parallel with airstream.
- Impact (total pressure) probe tip opens directly into the airstream.

TYPICAL APPLICATIONS (SEE FIGS. 1-6):

- 1. Positive static pressure increases as the filter gets dirty.
- 2. Differential across filter changes as filter gets dirty.
- 3. Flow is reduced as filter gets dirty.
- 4. Fan operation **or** true air flow with little or no static pressure.
- 5. Negative pressure increases as the filter gets dirty.
- 6. Fan operation **and** true air flow: varying amounts of static pressure. Probes must be perpendicular to air flow.

