

Package includes:

- 1 - Pressure Diaphragm**
- 1 - 3/8" barb connector**
- 1 - wiring harness**
- 1 - Mounting bracket**
- 1 - Bolt/washer**
- 1 - Pitot tube**
- 1 - 8' length tubing**
- 2 - wire connectors**
- 6 -1/4" screws**

The PS4 is used to sense the static pressure in the supply air duct and maintain the static pressure set point limit that the system will operate at. The PS4 will control an ND or URD damper, to allow an adequate amount of pressure to by-pass from the supply plenum to the return duct or dump zone, and maintain design static pressure and velocity. The PS4 has a range of 0.1" to 4.0" W.C. The PS4 can be used with motor actuators to create model EBD by-pass dampers.

Adjustment of the Switch

After mounting the pitot tube and diaphragm in a suitable location (The pressure switch should be mounted with the graduated stem in a vertical position. The pressure switch cannot be mounted sideways or upside-down), connect the tubing from the pitot tube, to the high pressure tap on the diaphragm. Use the barb connector as shown. Leave the low pressure tap open to atmosphere. (See drawing on page 2). Wire the PS4 to the bypass damper as shown on page 2. Remove cover from diaphragm switch to make your field connections. Make sure the zone system is operating properly and all zone dampers are in the open position. Power up the bypass damper assembly. Unscrew and remove the cap on the PS4 diaphragm. Turn the static pressure adjusting screw up or down until the top of the screw lines up with the static pressure scale setting you require. (Factory setting is .5" W.C.) Observe that the bypass damper should be closed when all zone dampers are open. If the bypass damper is open or partially open, adjust the set point for a higher static. Then, start to close off one or more zone dampers and observe the bypass damper as the static pressure control senses the increased air pressure and modulates the bypass damper open or closed to maintain the static pressure set point you require.

Note: The pressure switch should be mounted as close to vertical as possible to ensure proper operation.



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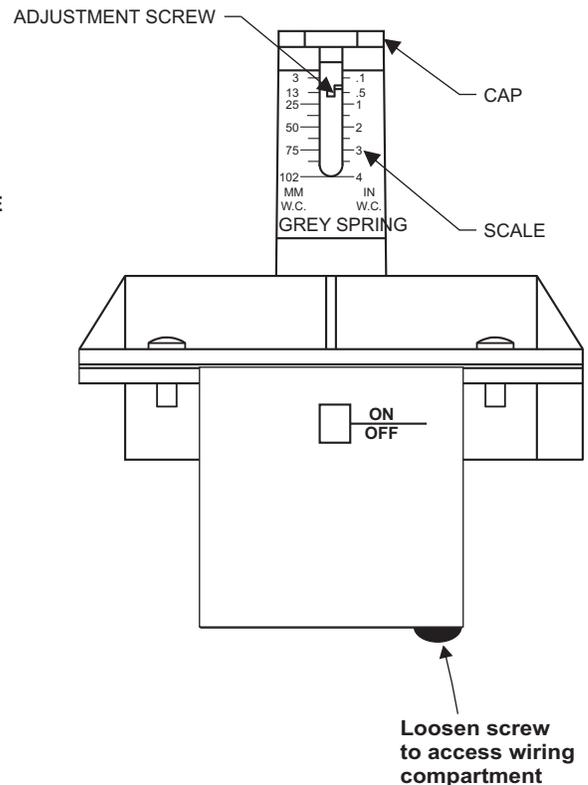
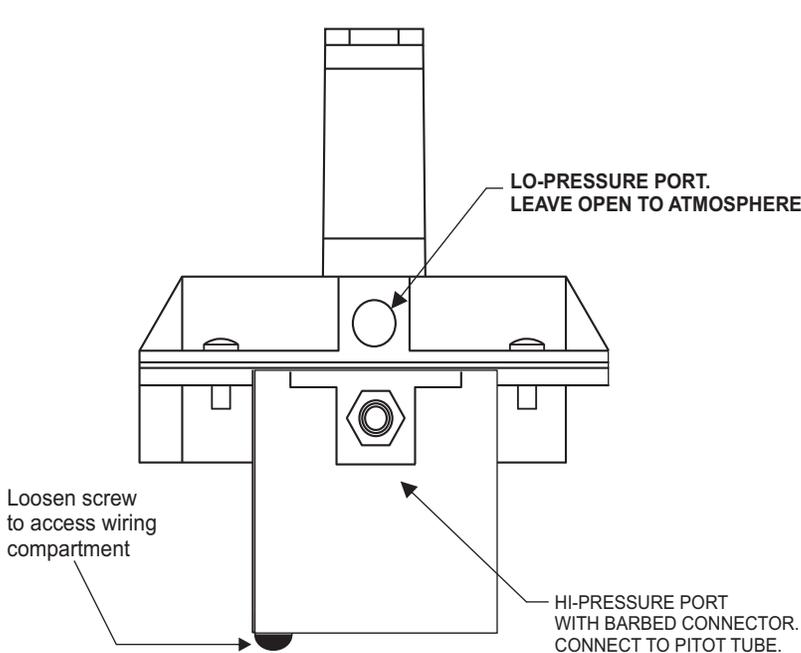
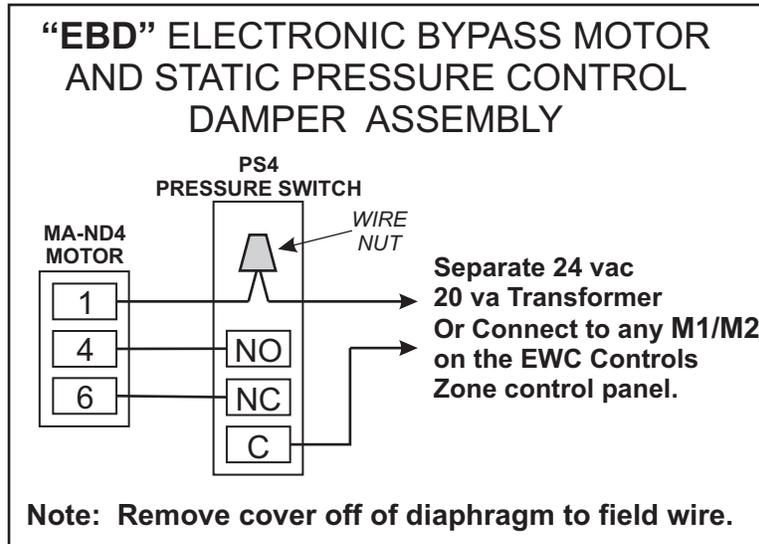
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SUBMITTAL FORM

SUBMITTED BY: _____
JOB: _____
ARCHITECT: _____
ENGINEER: _____
CONTRACTOR: _____
LOCATION: _____

Field Wiring



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