

# STATIC PRESSURE CONTROL

## Model PCSPC

As the zone dampers open and close, the system static pressure will rise and fall. In order to maintain a constant volume of air through the HVAC Unit, a modulating by-pass damper is used to control the air by-passed between the supply air, and return air ducts. The PCSPC is used to sense the supply air pressure and relieve excess air as the static pressure build-up. The PCSPC operates within a static pressure range of 0.08" to 0.8" W.C. Contact PARTNERS CHOICE for higher pressure applications.

### INSTALLATION

The PCSPC must be installed with the diaphragm in the vertical position. This can be mounted wherever it is convenient to run the tubing to the duct probe tube and wire to a transformer and by-pass damper motor.

The duct probe must be located downstream of the by-pass damper and before any zone dampers. A duct probe and length of tubing is included with the PCSPC.

Adjusting the PCSPC

1. Satisfy all zones thermostats and place each zone thermostat's fan switch to ON. This will turn on the Fan in all zones and open all zone dampers.
2. Check to make sure the by-pass damper is CLOSED.
3. Adjust the dial to the desired static by aligning with the arrow.



### SPECIFICATIONS

Pressure Range: 0.08" to 0.8" W.C.  
 Pressure Connection: 1/4" I.D. flex tubing  
 Operating Temperature: -40°F to 190°F  
 Max. Switching Current 1 Amp @ 24VAC  
 Maximum Pressure 40" WC

### WIRING DIAGRAM

### INSTALLATION DIAGRAM

