

ModuPASS® Installation Instructions

The ModuPass® system monitors static pressure and modulates a damper to maintain a maximum acceptable static pressure in the supply trunk. It balances a spring in the damper against a variable pressure signal to control the bypass damper. It was designed to be compatible with variable speed motors.

The transmitter must be field adjusted. Every duct system and every job are different. Failure to properly adjust the ModuPASS control could result in unnecessary system cycling or high static pressures.

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INSTALLATION INSTRUCTIONS

1. Mount the transmitter on the side of the supply trunk or equipment. The knob should be oriented on top of the control, parallel to the floor. **See Figure 1.**
2. Drill a 5/16" hole in the supply trunk before any trunk dampers. Mount the pitot tube onto the duct.
3. Connect the pitot tube to the back port on the ModuPASS transmitter. The transmitter monitors static pressure through this tube.
4. Install the ModuPASS damper into the bypass duct between the supply and return trunks. **See Figure 2.** There should be at least 8 feet between the return end of the bypass duct and the return drop, if possible.
5. Connect the ModuPASS damper to the connector on the short end of the tee hanging down from the middle of the transmitter. **See Figure 3.**
6. Connect a tube to the ModuPASS port on the Arzel zone control to the long end of the tee hanging down from the middle of the ModuPASS transmitter. Ensure that the restrictor is in between the panel and the tee.

MODUPASS ADJUSTMENT (MANDATORY)

1. Start the smallest zone calling by itself. (worst case scenario)
2. Rotate the knob all the way counter-clockwise. This will create the maximum close position.
3. Listen for air noise in the small zone. It may be too loud. If so, adjust the knob clockwise.
4. Open the damper only enough to alleviate any objectionable airflow noise. Your TESP will usually not exceed 0.7 IN. W.C.
5. Once adjusted for worst case scenario, the control will adjust for all damper combinations.

Figure 1

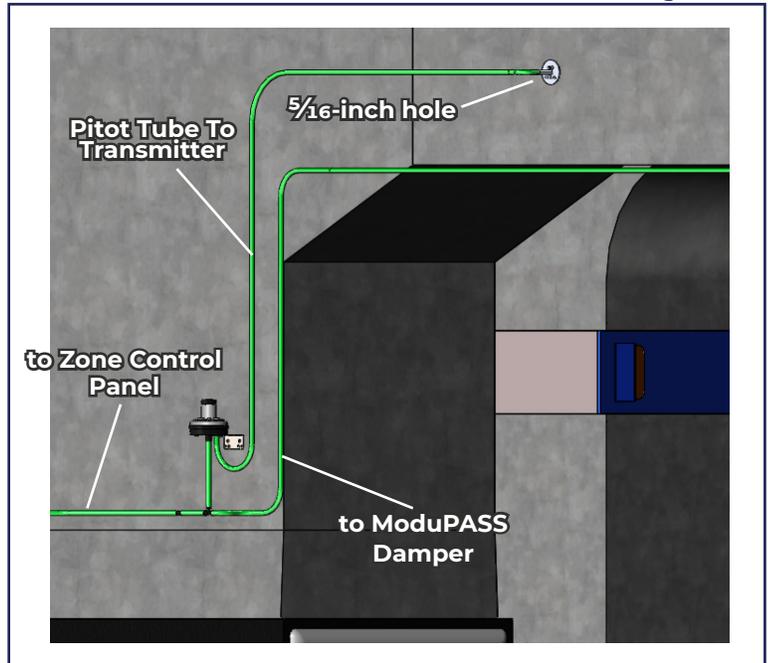


Figure 2

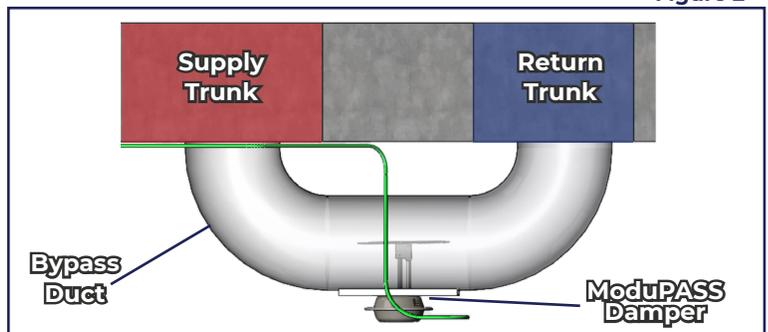
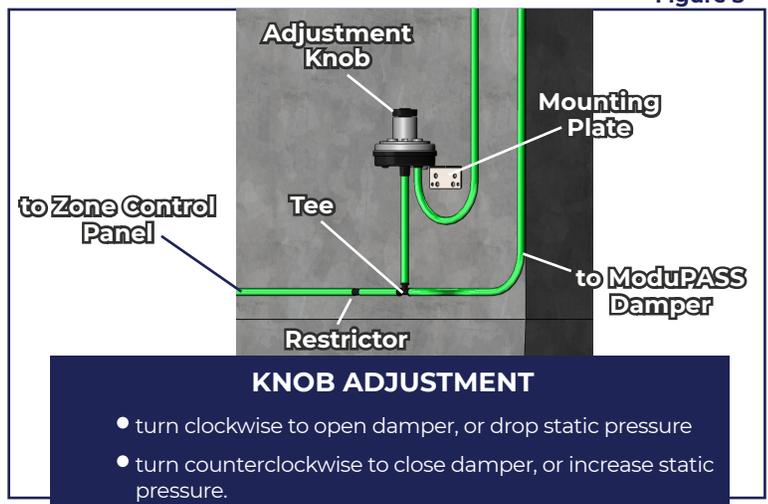


Figure 3



Technical Support

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