

# VVT Zone II, VVT Bypass II, and VAV Zone II Mounting Instructions

**NOTE** This document contains mounting information only. See the controller's *Installation and Start-Up Guide* for more information.

The VVT Zone II provides zone level temperature and air quality control for Variable Volume and Temperature (VVT) applications. The VVT Bypass II regulates the supply duct static pressure for VVT applications.

The VAV Zone II Single Duct and the VAV Zone II Fan Terminal provide zone level temperature and air quality control for Variable Air Volume (VAV) applications.

Mount the VAV Zone II or the VVT Zone II on the air terminal's damper actuator shaft. Mount the VVT Bypass II on the bypass duct damper actuator shaft. For service access, allow at least 12 in. of clearance between the front of the controller and adjacent surfaces.

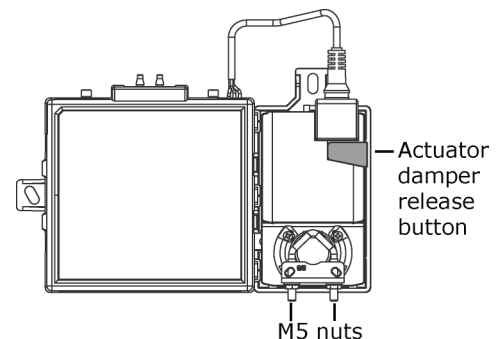
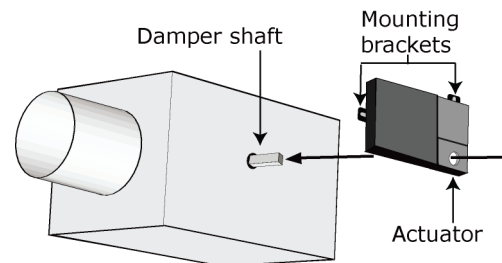
You can disconnect the actuator from the controller for more flexible mounting.

## Tools required:

- 5/16 in. or 8 mm wrench or socket
- No. 1 and 2 Phillips head screwdriver

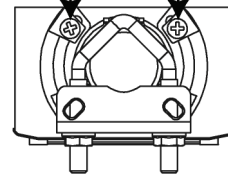
## To mount the controller and actuator

1. Turn the damper shaft to fully close the damper.
2. Mount the actuator to the terminal by sliding the clamp assembly onto the damper shaft.
3. Secure the controller and actuator in the mounting brackets with the screws and washers that are included.
4. Hold down the actuator damper release button and rotate the actuator clamp in the same direction that closed the damper. Rotate the clamp until it stops, then rotate it back one notch.
5. Release the button.
6. Using a 5/16 in. or 8 mm wrench or socket, tighten the actuator clamp to the damper shaft by tightening the two M5 nuts.



7. Hold down the actuator damper release button and rotate the damper from fully closed to fully open. If the damper traveled less than 90 degrees, do the following to prevent the damper opening past fully open:
  - a. Loosen the appropriate stop clamp screw.
  - b. Move the stop clamp until it contacts the edge of the actuator cam.
  - c. Tighten the screw.
8. Hold down the actuator damper release button, rotate the damper to verify that it fully opens and closes, then release the button.

Move stop clamp if necessary



9. **VAV Zone II and VVT Bypass II only**

Connect the tube provided to the controller's High connector. Using 1/4" poly tubing, connect the other end to a duct static pressure probe (for example, Dwyer Instruments part #A-491, or the equivalent, for a 6" length probe) located in the supply air duct downstream of the bypass damper, but before the first branching of ductwork.

**NOTE** Tubing should be at least 2 ft. (.61 meters) long for stable airflow measurement. The combined high and low tubing length should not exceed 16.4 ft. (5 meters) in order to ensure accurate measurements.

10. Connect the controller's **Low** connector to open space for plenum return or to a room space if using ducted return.
11. Attach the other ends of the poly tubing to the airflow pickup located in the VAV terminal's primary air inlet. Connect the controller's High connector to the terminal's High connector and the controller's Low connector to the terminal's Low connector.

