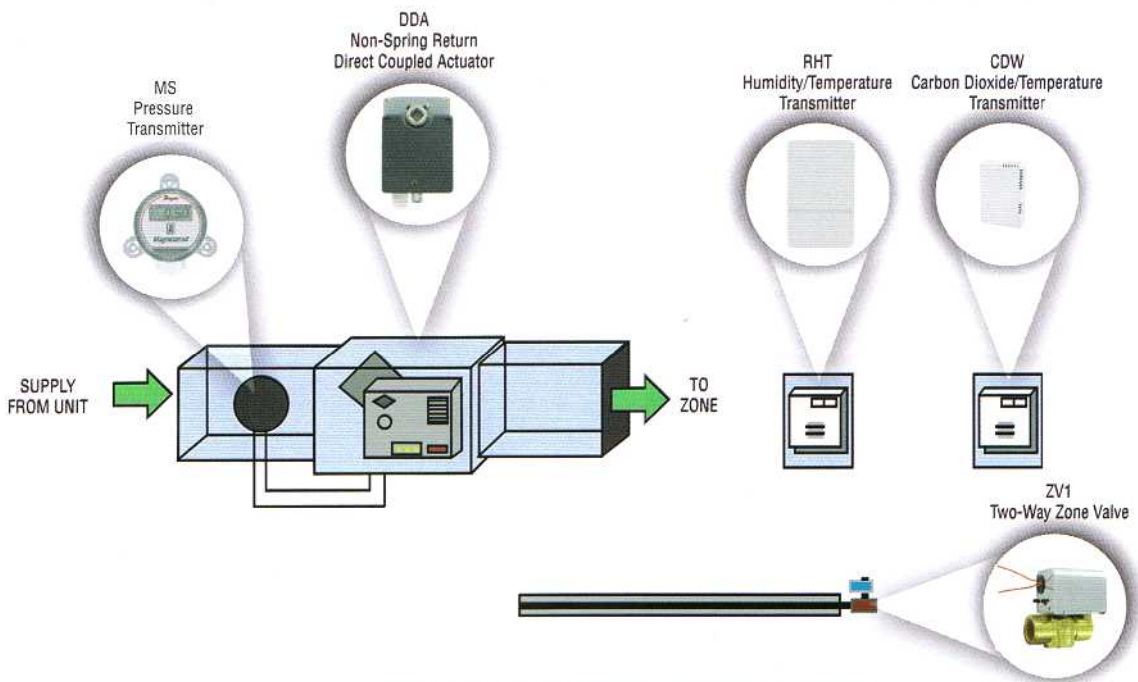


# ROOM CONTROL APPLICATION



## PRODUCTS APPLIED

### AIR VOLUME CONTROL

The amount of air added to the zone is controlled by opening and closing the air duct via a damper with a damper actuator.

- Product used: DD Damper Actuator.



### DUCT AIR FLOW

The amount of air flow to the zone is changed according to the demand. An air velocity transmitter is used to monitor the duct air flow.

- Product used: MS Pressure Transmitter that has square root extraction for air velocity.



### ROOM TEMPERATURE AND CARBON DIOXIDE

The amount of air flow to a zone is varied based on occupancy in a zone. The occupancy is determined by the concentration of carbon dioxide in the zone.

- Product used: CDW carbon dioxide and temperature transmitter



### WATER FLOW CONTROL

VAV systems can include heating coils of hot water that the air flows past. A zone valve is used to change the amount of hot water added to the heating coil. Zone systems can include radiant heating systems. A zone valve is used to change the amount of hot water added to the radiator in the zone.

- Products used: ZV1 or ZV2 zone valves.



### ROOM TEMPERATURE AND HUMIDITY

A wall mounted temperature and humidity transmitter is placed in the zone to monitor the zone conditions and determine demand.

- Product used: RHT-W humidity and temperature transmitter.

