

Outdoor Airflow Controller Modules for Systems without an Airside Economizer

OAC controllers are perfect for rooftop air handlers or air handlers with ducted outdoor air intakes when an airside economizer is not installed. Controllers are also ideal for ducted outdoor air intakes to fan coils, DOAS and makeup air systems. OAC controllers can be configured for zone level control of DOAS systems and can be ordered as a fully assembled, turn-key, valve/actuator package. OAC controllers require an integrated IAT airflow/temperature probe or approved third-party AMD.

OAC controllers can maintain a user defined outdoor airflow setpoint or maintain airflow rates between minimum and maximum airflow limits when CO₂ or population-based DCV is enabled. Controllers can also maintain an unoccupied airflow setpoint.

OAC-3000 Outdoor Airflow Controller

The OAC-3000 modulates an MP-bus network actuator to maintain the outdoor airflow rate. The MP-bus solution is the most cost effective method for actuating small air valves and dampers on ducted systems to fan coils, makeup air to air handlers or zone level DOAS applications. DCV requires approved BACnet MS/TP CO₂ sensors or occupancy counters.

Occupied mode is typically enabled by a 24 VAC output from a thermostat on fan coil systems or via BACnet MS/TP on makeup air to air handlers or zone level DOAS systems.



OAC-3000S Outdoor Airflow Controller

The OAC-3000S is a modified version of the OAC-3000. The controller has a built-in real time clock (RTC) that allows a daily or weekend/weekday occupied unoccupied schedule to override or operate in the absence of the binary input.



OAC-4000

The OAC-4000 modulates a proportional analog actuator or fan speed controller to maintain the outdoor airflow rate. The analog actuator solution allows for larger damper sizes and is ideal for ducted systems to fan coils, makeup air to air handlers, makeup air fans or zone level DOAS applications. DCV requires approved BACnet MS/TP CO₂ sensors or occupancy counters.

Occupied mode is typically enabled by a 24 VAC output from a thermostat on fan coil systems or via BACnet MS/TP on makeup air to air handlers or zone level DOAS systems.



OAC-5000

The OAC-5000 has an additional analog input and analog output compared to the OAC-4000. As a result, the OAC-5000 can be used with analog CO₂ sensors as well as approved BACnet MS/TP CO₂ or occupancy counters. It also provides an airflow output signal, if desired.

