

# OAC-5000 Wiring Diagram

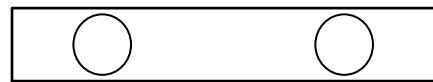
Outdoor Airflow Control for Thermostat-based Systems

Optional DCV Configuration: RS-485 BACnet MS/TP CO<sub>2</sub> Sensor or Occupancy Counter

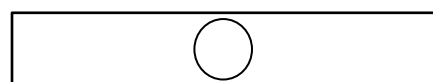
IAT THERMAL DISPERSION  
OUTDOOR AIRFLOW PROBE(S)

PROPORTIONAL  
ACTUATOR  
2-10 VDC  
0-5/0-10 VDC  
4-20 mA  
(by others)

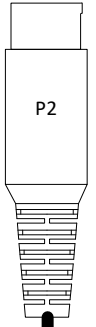
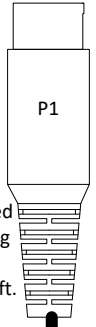
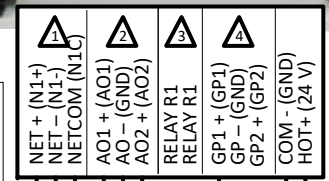
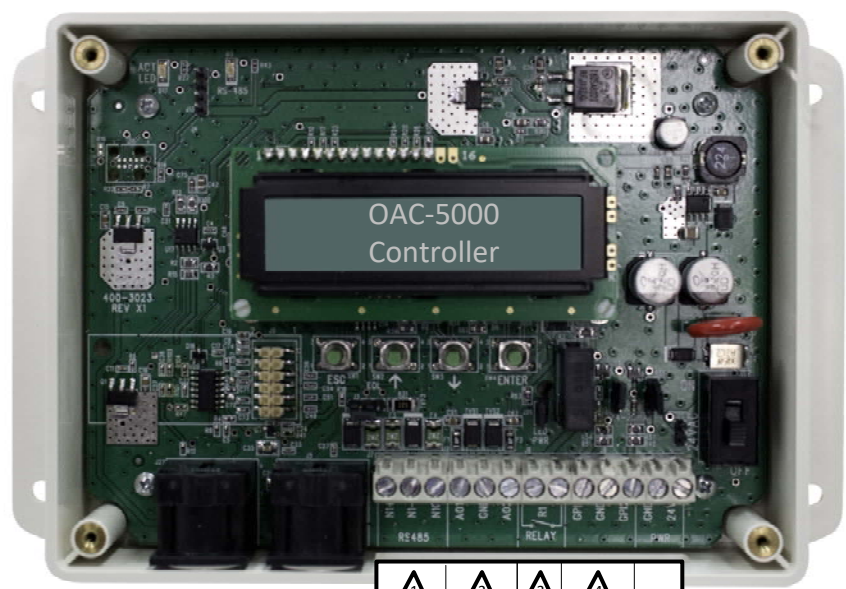
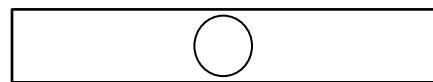
Probe #1 - 1 or 2 sensors  
(required)



or



Probe #2 - 1 sensor  
(optional if probe 1 is one sensor)



FEP Plenum Rated  
Cable w/DIN Plug  
Included  
10ft., 25ft. or 50 ft.

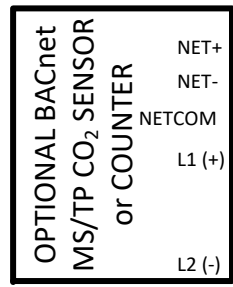
⚠️ RS-485 may be "daisy-chained" to a remote B.A.S. BACnet objects are read-write. OAC controllers are a 1/4 load BACnet Master device. Set termination jumper (J3) on the OAC controller if it is located at the end of the RS-485 line. OAC controller RS-485 connections are non-isolated. Install a GreenTrol network isolator if an isolated RS-485 connection is required.

⚠️ Actuator signal common is not required when a single transformer is provided to devices without isolated outputs.

⚠️ N.O. contact closure relay. 30 VDC or 24 VAC @ 3A max. On-board jumper (J26) allows relay to drive an external LED (by others).

⚠️ GP1 is configured as a binary 0/24 VAC input for thermostat applications. Occupied mode can be triggered by 0 VAC or 24 VAC via firmware parameter BI TRIG (default is 24 VAC).

⚠️ Do not connect the secondary of the 24 VAC transformer to earth ground if the airflow output on AO2 is connected to a B.A.S. requiring a floating output signal.



Occupied Control Enable Trigger:  
(select one)

- 1 Fan On
  - 2 Stage 1 Compr. On\*
  - 3 Occupied Mode
- \* Heat pumps only

