

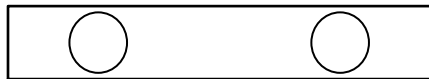
# OAC-3000S Wiring Diagram

Outdoor Airflow Control for Thermostat-based Systems

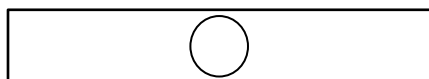
Optional DCV Configuration: RS-485 BACnet MS/TP CO<sub>2</sub> Sensor or Occupancy Counter

IAT THERMAL DISPERSION  
OUTDOOR AIRFLOW PROBE(S)

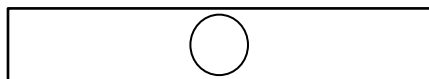
Probe #1 - 1 or 2 sensors  
(required)



or



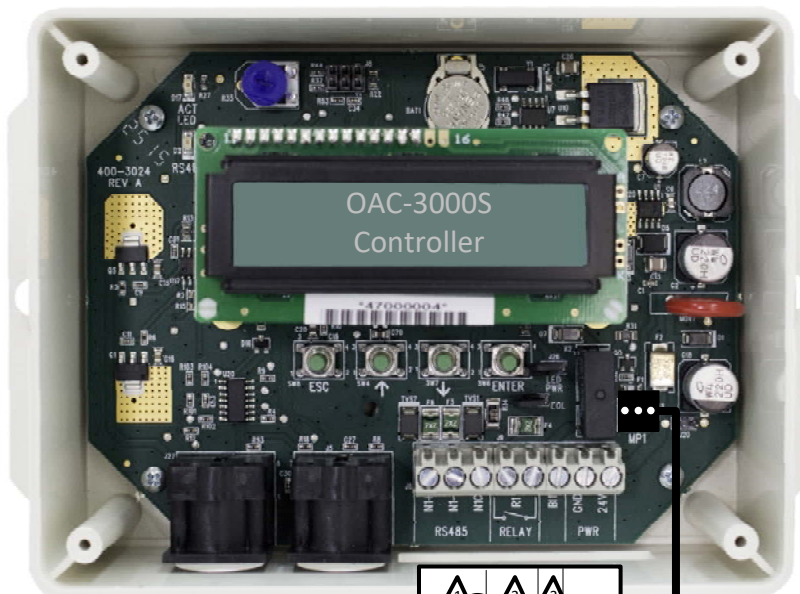
Probe #2 - 1 sensor  
(optional if probe 1 is one sensor)



**⚠** RS-485 may be "daisy-chained" to a remote B.A.S. BACnet objects are read-write. OAC controllers are a 1/2 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.

**⚠** N.O. contact closure relay. 30 VDC or 24 VAC @ 3A max. On-board jumper (J2) allows relay to drive an external LED (by others).

**⚠** BI1 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).



**OAC-3000S**  
Built-in Real Time Clock (RTC)

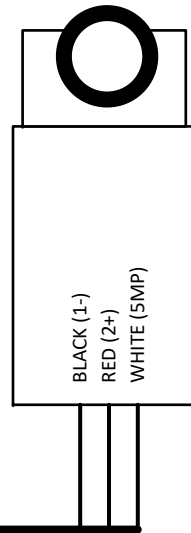
- Daily Schedule
- Weekday/Weekend

Active control setpoints will be maintained when the RTC occupancy status = "occupied" AND the thermostat trigger state = "true"

Inactive control setpoints will be maintained when the RTC occupancy status = "unoccupied" AND the thermostat trigger state = "False"

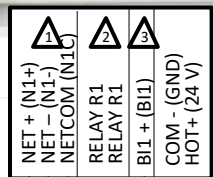
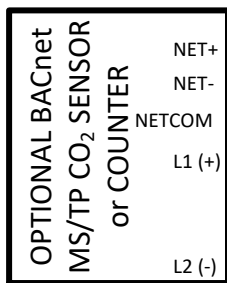
*Note: The thermostat trigger configuration "NC" defaults the thermostat trigger state to "True" at all times. This results in active and inactive control setpoint conditions being solely determined by the RTC and schedule.*

PROPORTIONAL  
ACTUATOR  
Belimo MP-bus



MP-bus Cable Provided  
2 ft., 5 ft. or 10 ft.

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



Occupied Control Enable Trigger:  
(select one)

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

